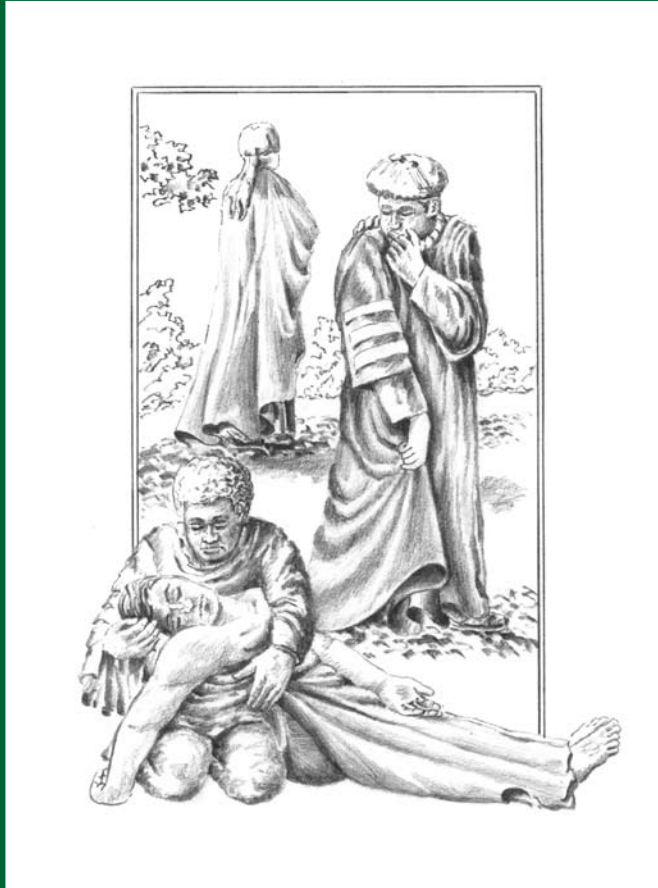


# *LOMA LINDA UNIVERSITY*



## SCHOOL OF MEDICINE

1999  2001

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**Loma Linda University**  
**SCHOOL OF MEDICINE**  
**Bulletin 1999-2001**

Loma Linda, California

<http://www.llu.edu/llu/medicine/>

Cover: The Good Samaritan sculpture, located on the campus mall,  
is a graphic representation of the parable told by Jesus and recorded in Luke 10:25-37.

The information in this BULLETIN is made as accurate as is possible at the time of publication. Students are responsible for informing themselves of and satisfactorily meeting all requirements pertinent to their relationship with the University. The University reserves the right to make such changes as circumstances demand with reference to admission, registration, tuition and fees, attendance, curriculum requirements, conduct, academic standing, candidacy, and graduation.

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1999-2001

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**Loma Linda University**

Loma Linda, California 92350

a health-sciences university

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# I

## LOMA LINDA UNIVERSITY

University Foundations

Our Mission

Nondiscrimination Policy

Affirmative Action

The Calendar



# University Foundations

## HISTORY

Loma Linda University has grown out of the institution founded at Loma Linda, California, by the Seventh-day Adventist church in 1905. The original schools—Nursing and Medicine—have been joined by Allied Health Professions, Dentistry, Public Health, the Graduate School, and the Faculty of Religion.

The University, operated by the Seventh-day Adventist church, is committed to the vision of its founders and is sustained by its close association with the church.

Loma Linda University is a Seventh-day Adventist coeducational, health-sciences institution located in inland southern California. It is part of the Seventh-day Adventist system of higher education. Professional curricula are offered by the Schools of Allied Health Professions, Dentistry, Public Health, Medicine, and Nursing. Graduate programs in various biomedical sciences are offered by departments of the schools. The professional curricula of the University are approved by their respective professional organizations.

The most current campus census figures (1999-2000) indicate that the core of the combined faculties consists of 1,051 full-time teachers. Part-time and voluntary teachers, largely clinicians in the professional curricula, bring the total to 2,254. Men and women from 87 nations are represented in the 1999-2000 enrollment of 3,410.

## PHILOSOPHY

As implied by its motto, “TO MAKE MAN WHOLE,” the University affirms these tenets as central to its view of education:

God is the creator and sustainer of the universe.

Mankind’s fullest development entails a growing understanding of the individual in relation both to God and society.

The quest for truth and professional expertise, in an environment permeated by religious values, benefits the individual and society and advances the ministry of the Seventh-day Adventist church.

# Our Mission

Loma Linda University, a Seventh-day Adventist Christian health-sciences institution, seeks to further the healing and teaching ministry of Jesus Christ “to make man whole” by:

Educating ethical and proficient Christian health professionals and scholars through instruction, example, and the pursuit of truth;

Expanding knowledge through research in the biological, behavioral, physical, and environmental sciences and applying this knowledge to health and disease;

Providing comprehensive, competent, and compassionate health care for the whole person through faculty, students, and alumni.

In harmony with our heritage and global mission:

We encourage personal and professional growth through integrated development of the intellectual, physical, social, and spiritual dimensions of each member of the University community and those we serve.

We promote an environment that reflects and builds respect for the diversity of humanity as ordained by God.

We seek to serve a worldwide community by promoting healthful living, caring for the sick, and sharing the good news of a loving God.

To achieve our mission we are committed to:

## OUR STUDENTS

Our primary responsibility is the education of students, who come from diverse ethnic and cultural backgrounds, enabling them to acquire the foundation of knowledge, skills, values, attitudes, and behaviors appropriate for their chosen academic or health care ministry. We nurture their intellectual curiosity. We facilitate their development into active, independent learners. We provide continuing educational opportunities for our alumni and professional peers. We encourage a personal Christian faith that permeates the lives of those we educate.

#### OUR FACULTY, STAFF, AND ADMINISTRATION

**W**e respect our faculty, staff, and administration who through education, research, and service create a stimulating learning environment for our students. They contribute to the development of new understandings in their chosen fields. They demonstrate both Christian values and competence in their scholarship and professions.

#### OUR PATIENTS AND OTHERS WE SERVE

**W**e provide humanitarian service through people, programs, and facilities. We promote healthful living and respond to the therapeutic and rehabilitative needs of people. We seek to enhance the quality of life for individuals in local, regional, national, and world communities.

#### OUR GOD AND OUR CHURCH

**W**e believe all persons are called to friendship with a loving God both now and throughout eternity. We support the global mission of the Seventh-day Adventist church by responding to the need for skilled Christian health professionals and scholars. We seek to honor God and to uphold the values of the Seventh-day Adventist church and its commitment to awakening inquiry. We are drawn by love to share the good news of God expressed through the life and gospel of Jesus Christ and to hasten His return.

# Nondiscrimination Policy

The University was established by the Seventh-day Adventist church as an integral part of its teaching ministry. It is committed to equal education and employment opportunities for men and women of all races and does not discriminate on the basis of handicap, sex, race, color, or national origin in its educational and admissions policies, financial affairs, employment programs, student life and services, or any University-administered program.

To this end, the University is in compliance with Titles VI and VII of the Civil Rights Act of 1964 as amended, and in substantial compliance with Title IX of the Education Amendments of 1972 (34 CFR 106 et seq.), Sections 503 and 504 of the Rehabilitation Discrimination in Employment Act of 1967, and Section 402 of the Vietnam Era Veterans Adjustment Act of 1974; and does not discriminate against any employees or applicants for employment on the basis of age or because they are disabled veterans or veterans of the Vietnam era. In addition, the University administers student programs without discrimination on the basis of age, except in those programs where age is a bona fide academic qualification for admission in accordance with the provisions of the Age Discrimination Act of 1975.

The University reserves constitutional and statutory rights as a religious institution and employer to give preference to Seventh-day Adventists in admissions and employment, including but not limited to 42 USC Secs. 2000e-1, 2000e-2; Sec. 6-15 of Federal Executive Order 11246; 41 CFR Sec. 60-1.5(5); 20 USC Sec. 1681 (a)(3); 34 CFR Secs. 106.12 (a)(b), 106.21, 106.31, 106.39, 106.40, 106.51, and 106.57; California Government Code Sec. 12926(d)(1); Title II, Division 4, Chapter 2, Sec. 7286.5 of the California Code of Regulations; the First Amendment to the United States Constitution; and Article I, Sec. 4, of the California Constitution. The University believes that Title IX regulations are subject to constitutional guarantees against unreasonable entanglement with or infringements on the religious teachings and practices of the Seventh-day Adventist church. The University expects students and employees to uphold biblical principles of morality and deportment as interpreted by the Seventh-day Adventist church. The University claims exemptions from the provisions of Title IX set forth in 34 CFR Secs. 106.12 (a)(b), 106.21, 106.31, 106.39, 106.40, 106.51, and 106.57.

# Affirmative Action

The University routinely monitors its educational and employment practices regarding women, minorities, and the handicapped to ensure compliance with the law and University policy. The University's affirmative action policy is to provide equal access to admissions, educational programs and activities, financial aid, student services, and employment.

In compliance with Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, a grievance procedure has been established to process student complaints alleging violation of these regulations or of the University's policy of nondiscrimination based on gender or handicap. Inquiries concerning Title IX may be directed to the affirmative action officer. Employment-related discrimination complaints, including those filed by student employees, are processed in conformity with the provisions outlined in existing staff personnel policies. Complaints related to discrimination in academic areas are reviewed in conformity with the procedures established by the academic administration.

# The Calendar

## 1999

### JUNE

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

1	Early registration for summer sessions
7-11	Final examinations—FR
8-9	USMLE, Step I—SO
21-SEP 3	<b>SUMMER SESSIONS 1999</b>
21-SEP 3	Eleven-week summer session
21-JUL 27	First five-week summer session

### JULY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

5	Independence Day recess
6	SM clerkships—JR
6	Instruction begins—JR
21	Last day to obtain financial clearance
21	Instruction begins
24	Registration—JR, SR
26	Instruction begins—SR
28-SEP 2	Second five-week summer session
One week after course begins	Last day to enter a course or change from audit to credit/credit to audit
One week after course begins	Last day to withdraw with no record of course registration on transcript
One week before end of course	Last day to withdraw with a W grade
One week before end of course	Last day to submit S/U petition

### AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

3-4	Careers in Medicine seminar
5-6	Registration and orientation—FR
9	Instruction begins—FR
24-25	USMLE, Step II—SR

### SEPTEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

3	Summer Quarter ends
6	Labor Day recess
7	Registration—FR, SO, JR, SR
7-24	Post-Summer Quarter session
7	Instruction begins, Post-Summer Quarter session
7	Instruction begins—SO
8-24	Registration for Autumn Quarter
13-15	Midterm examinations—FR
15	University faculty convocation
27-DEC 14	<b>AUTUMN QUARTER 1999</b>
27	Last day to obtain financial clearance and to complete registration without a late fee

# The Calendar

## 1999

### OCTOBER

S	M	T	W	T	F	S		
						1	2	1-3
3	4	5	6	7	8	9		5
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		7
24	25	26	27	28	29	30		11-15
31								12
								22
								25-29
								29-30

Faculty/Student retreat  
 Last day to enter a course or change from audit to credit/credit to audit  
 Campus/Chamber of Commerce Connection  
 Fall Week of Devotion  
 Last day to withdraw with no record of course registration on transcript  
 Examinations—JR  
 Midterm examinations—SO  
 Annual HALL/ALAS student retreat

### NOVEMBER

S	M	T	W	T	F	S		
	1	2	3	4	5	6		
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		19-20
21	22	23	24	25	26	27		24-28
28	29	30						29
								29
								29
								29-DEC 23

Annual BALL/BHPSA student retreat  
 Thanksgiving recess—FR, SO  
 Instruction resumes  
 Last day to withdraw with a W grade  
 Last day to submit S/U petition  
 Registration for Winter Quarter—LLU

### DECEMBER

S	M	T	W	T	F	S		
				1	2	3	4	2
5	6	7	8	9	10	11		9-17
12	13	14	15	16	17	18		13-27
19	20	21	22	23	24	25		14
26	27	28	29	30	31			17
								18-JAN 3
								20-JAN 3

Registration—FR, SO, JR, SR  
 Final examinations—FR, SO  
 Christmas recess—SR  
 Autumn Quarter ends  
 Grades due from faculty  
 Christmas recess—FR, SO  
 Christmas recess—JR

## 2000

### JANUARY

S	M	T	W	T	F	S		
						1		
2	3	4	5	6	7	8		3-MAR 17
9	10	11	12	13	14	15		3
16	17	18	19	20	21	22		5
23	24	25	26	27	28	29		11
30	31							
								8-15
								17
								18
								18-21
								28
								31-FEB 4

**WINTER QUARTER 2000**  
 Instruction begins—FR, SO  
 Last day to obtain financial clearance  
 Last day to enter a course or change from audit to credit/credit to audit  
 Mission Emphasis Week  
 Martin Luther King, Jr., Day recess—FR, SO  
 Last day to withdraw with no record of course registration on transcript  
 Student Week of Spiritual Emphasis  
 Final examinations—JR  
 African American History Week

# The Calendar

## 2000

### FEBRUARY

S M T W T F S  
 1 2 3 4 5  
 6 7 8 9 10 11 12  
 13 14 15 16 17 18 19  
 20 21 22 23 24 25 26  
 27 28 29

7-11 Midterm examinations—FR, SO  
 21 Presidents' Day recess  
 28 Last day to withdraw with a W grade  
 28 Last day to submit S/U petition  
 28-MAR 24 Registration—LLU

### MARCH

S M T W T F S  
 1 2 3 4  
 5 6 7 8 9 10 11  
 12 13 14 15 16 17 18  
 19 20 21 22 23 24 25  
 26 27 28 29 30 31

2 Registration—FR, SO, JR, SR  
 3 SM Family Day and FR dedication  
 3- 7 Annual Postgraduate Convention (APC)  
 13-17 Final examinations—FR, SO  
 17 Winter Quarter ends  
 21 Grades due from faculty  
 17-26 Spring break—LLU  
 27-JUN 9 SPRING QUARTER 2000  
 27 Last day to obtain financial clearance and to complete  
 registration without a late fee  
 27 Instruction begins—FR, SO

### APRIL

S M T W T F S  
 1  
 2 3 4 5 6 7 8  
 9 10 11 12 13 14 15  
 16 17 18 19 20 21 22  
 23 24 25 26 27 28 29  
 30

4 Last day to enter a course or change from audit to  
 credit/credit to audit  
 10-14 Spring Week of Devotion  
 11 Last day to withdraw with no record of course registration  
 on transcript  
 21 Examinations—JR  
 24-28 Midterm examinations—FR

### MAY

S M T W T F S  
 1 2 3 4 5 6  
 7 8 9 10 11 12 13  
 14 15 16 17 18 19 20  
 21 22 23 24 25 26 27  
 28 29 30 31

8-12 Final examinations—SO  
 13 Minority Consecration Service  
 16 Basic science comprehensive examination—SO  
 22 Last day to withdraw with a W grade  
 22 Last day to submit S/U petition  
 26 Hooding Ceremony  
 27 Baccalaureate Service  
 28 Conferring of Degrees  
 29 Memorial Day recess  
 31-JUN 16 Early registration for summer sessions



# The Calendar

## 2000

### JUNE

S	M	T	W	T	F	S
					1	2 3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

1-16	Early registration for summer sessions
5- 9	Final examinations—FR
9	Spring Quarter ends—LLU
12-16	Final examinations—FR
19-SEP 1	<b>SUMMER SESSIONS 2000</b>
19-JUL 25	First five-week summer session
19-SEP 1	Eleven-week summer session
19	Last day to obtain financial clearance
19	Instruction begins
One week after course begins	Last day to enter a course or change from audit to credit/credit to audit
One week after course begins	Last day to withdraw with no record of course registration on transcript
29	Registration—JR
31	Instruction begins—JR, SR

### JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

4	Independence Day recess
5	Instruction begins—JR
7	Last day to obtain financial clearance—JR
26-AUG 31	Second five-week summer session
28	Registration—SR
31	SM clerkships—JR, SR
One week before end of course	Last day to withdraw with a W grade
One week before end of course	Last day to submit S/U petition

### AUGUST

S	M	T	W	T	F	S
					1	2 3 4 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

3- 4	Registration and orientation—FR
7	Instruction begins—FR

# The Calendar

## 2000

### SEPTEMBER

S M T W T F S  
 1 2  
 3 4 5 6 7 8 9  
 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23  
 24 25 26 27 28 29 30

1 Summer Quarter ends  
 4 Labor Day recess  
 5 Summer registration—SO  
 5 Instruction begins—SO  
 5-22 Registration for Autumn Quarter—FR, SO, JR, SR  
 5-22 POST-SUMMER QUARTER SESSION 2000  
 5 Instruction begins  
 11-15 Midterm examinations—FR  
 12 LLU faculty colloquium  
 25-DEC 14 AUTUMN QUARTER 2000  
 25 Last day to obtain financial clearance and to complete  
 registration without a late fee  
 29-OCT 1 SM faculty/student retreat

### OCTOBER

S M T W T F S  
 1 2 3 4 5 6 7  
 8 9 10 11 12 13 14  
 15 16 17 18 19 20 21  
 22 23 24 25 26 27 28  
 29 30 31

3 Last day to enter a course or change from audit  
 to credit/credit to audit  
 5 Campus/Chamber of Commerce Connection  
 9-13 Fall Week of Devotion  
 10 Last day to withdraw with no record of course  
 registration on transcript  
 20 Examinations—JR  
 23-27 Midterm examinations—FR, SO  
 25 University convocation  
 27-28 Annual HALL/ALAS student retreat

### NOVEMBER

S M T W T F S  
 1 2 3 4  
 5 6 7 8 9 10 11  
 12 13 14 15 16 17 18  
 19 20 21 22 23 24 25  
 26 27 28 29 30

17-19 Annual BALL/BHPSA student retreat  
 22-26 Thanksgiving recess—FR, SO  
 27 Instruction resumes  
 27 Last day to withdraw with a W grade  
 27 Last day to submit S/U petition  
 27-DEC 22 Registration for Winter Quarter—LLU

### DECEMBER

S M T W T F S  
 1 2  
 3 4 5 6 7 8 9  
 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23  
 24 25 26 27 28 29 30  
 31

7 Final examinations—FR, SO  
 11-14 Final examinations—LLU  
 14 Autumn Quarter ends  
 15-JAN 2 Christmas recess—LLU  
 18-JAN 2 Christmas recess—FR, SO, JR, SR  
 19 Grades due from faculty

# The Calendar

## 2001

### JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

3-MAR 16

3

3

3

9

20-27

15

16

16-19

26

### WINTER QUARTER 2001

Instruction begins—LLU

Instruction begins—FR, SO, JR, SR

Last day to obtain financial clearance—LLU

Last day to enter a course or change from audit to credit/credit to audit

Mission Emphasis Week

Martin Luther King, Jr., Day recess—FR, SO

Last day to withdraw with no record of course registration on transcript

Student Week of Spiritual Emphasis

Final examinations—JR

### FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

29-MAR 2

19

20-27

22-27

27-MAR 2

25

26

26

26-MAR 23

Midterm examinations—FR, SO

Presidents' Day recess

African American History Week

SM Annual Postgraduate Convention (APC) with SPH Alumni "Healthy People" Convention

SM Family Day and FR dedication

Last day to withdraw with a W grade

Last day to submit S/U petition

Registration for Spring Quarter—LLU

### MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1

12-16

12-16

16-25

16

TBA

TBA

20

26-JUN 8

26

26

27

Registration for Spring Quarter—SM

Final examinations—LLU

Final examinations—FR, SO

Spring break—LLU

Winter Quarter ends

JR match seminar

SR match seminar

Grades due from faculty

### SPRING QUARTER 2001

Last day to obtain financial clearance and to complete registration without a late fee

Instruction begins—LLU

Instruction begins—FR, SO

# The Calendar

## 2001

### APRIL

S	M	T	W	T	F	S		
1	2	3	4	5	6	7	3	Last day to enter a course or change from audit to credit/credit to audit
8	9	10	11	12	13	14		
15	16	17	18	19	20	21	9-13	Spring Week of Devotion
22	23	24	25	26	27	28	10	Last day to withdraw with no record of course registration on transcript
29	30						20	Examinations—JR
							23-27	Midterm examinations—FR

### MAY

S	M	T	W	T	F	S		
		1	2	3	4	5		
6	7	8	9	10	11	12	7-11	Final examinations—SO
13	14	15	16	17	18	19	12	Diversity Consecration Service
20	21	22	23	24	25	26	15	Basic science comprehensive examination—SO
27	28	29	30	31			21	Last day to withdraw with a W grade
							21	Last day to submit S/U petition
							25	Hooding Ceremony
							26	Baccalaureate Service
							27	Conferring of Degrees
							28	Memorial Day recess
							30-JUN 15	Early registration for summer sessions—LLU

### JUNE

S	M	T	W	T	F	S		
				1	2			
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23	18-AUG 31	SUMMER SESSIONS 2001—LLU
24	25	26	27	28	29	30	4- 8	Final examinations—LLU
							4- 8	Final examinations—FR
							8	Spring Quarter ends
							11-15	NBME subject examinations—FR
							12	Grades due from faculty
							18-JUL 24	First five-week summer session
							18-AUG 31	Eleven-week summer session

### JULY

S	M	T	W	T	F	S		
1	2	3	4	5	6	7	2	Instruction begins—JR
8	9	10	11	12	13	14	25-AUG 31	Second five-week summer session
15	16	17	18	19	20	21	30	SM clerkships—JR, SR
22	23	24	25	26	27	28		
29	30	31						



# II

## THE SCHOOL OF MEDICINE

Letter from the Dean

School Foundations

Our Mission

Admissions Information

Curriculum

Clinical Facilities

Research Centers

Student Life

Academic Practices and General Regulations

Financial Information

**T**hank you for your interest in Loma Linda University School of Medicine. This bulletin will provide you with detailed information about our people, programs, and facilities; as well as our requirements and expectations.

Medical education remains our number-one priority. The School offers quality programs in medical education for medical students, combined-degrees students, house staff, alumni, and professional peers within a system of demonstrated Christian values and beliefs. Our faculty are committed to ensuring that those we educate will develop the skills and intellectual curiosity needed for success as life-long learners in a changing world.

We welcome your interest.



Brian S. Bull, M.D.

*Brian S. Bull M.D.*

Dean, School of Medicine

# School Foundations

## HISTORY

The professional curriculum in medicine, usually requiring four academic years of study and experience in a university and hospital setting, was first offered at Loma Linda University in 1909. Nine decades later, the events since 1909 seem blurred by the rapidity of change that institutions of higher learning experience in an effort to keep pace with the growth of knowledge.

## SINCE 1909

The first two years of medicine were always taught on the Loma Linda campus. From 1913 to the mid-1960s the third and fourth years were taught at what is now White Memorial Medical Center (the first part of which was built in 1918) and at nearby Los Angeles County Hospital (now Los Angeles County/USC Medical Center). Construction of Loma Linda University Medical Center (inclusive of clinical, teaching, and research facilities) allowed the entire four-year curriculum to be offered on and near the Loma Linda campus, beginning with school year 1966-67. The Medical Center was occupied in July 1967.





# Our Mission

The mission of the School of Medicine is to continue the healing and teaching ministry of Jesus Christ, “To Make Man Whole” (Luke 9:6).

## PREPARING THE PHYSICIAN

Our overriding purpose is to foster the formation of Christian physicians, educated to serve as generalists or specialists providing whole-person care to individuals, families, and communities. To discharge this responsibility requires:

### EDUCATION

Creating an environment in which medical students, graduate students, and residents will acquire the knowledge, skills, values, and attitudes appropriate to Christian health professionals and scholars.

### RESEARCH

Cultivating an atmosphere of inquiry and discovering new routes to wholeness through basic and clinical research.

### SERVICE

Ministering to the physical, mental, emotional, and spiritual needs of patients in a timely and cost-effective fashion with due regard for their privacy, dignity, and valid consent; providing diagnostic and therapeutic services in primary and tertiary-care settings to patients of all ages, races, religions, and socioeconomic backgrounds.

### DEVELOPING THE WHOLE PERSON

Fostering wholeness. The Christian view of wholeness maintains that the needs of patients go beyond the healing of the body, and that the development of students involves more than the training of the mind. We are dedicated to promoting physical, intellectual, social, and spiritual growth in our faculty and our students; and to transforming our daily activities into personal ministries.

### REACHING THE WORLD

Providing whole-person care wherever the opportunity arises; participating with the world community in the provision of local medical education; providing physicians and scientists from countries outside the United States additional opportunities for professional interaction and enrichment; sharing the good news of a loving God as demonstrated by the life and teachings of Jesus Christ—these are the goals of the students, faculty, and graduates of the School of Medicine.

# Admissions Information

## THE STUDY OF MEDICINE

Preparation for the practice of medicine begins early in life and early in the student's schooling. The greater the aptitudes for and interests in learning widely and appreciatively in the major areas of knowledge—the natural sciences, the humanities, the behavioral sciences—the more able and versatile the student is likely to become.

In selecting students, the Admissions Committee of the School of Medicine looks for applicants who are best suited to fulfill the mission of the School and to successfully practice medicine. The School desires students who demonstrate ability to learn independently, to think critically, and to articulate clearly—both orally and in written form—their ideas and opinions. It is important that students in the School of Medicine demonstrate excellent interpersonal skills and show evidence of sensitivity to the needs of humanity.

The Admissions Committee of the School of Medicine puts forth considerable effort to ensure that an applicant is qualified for medical school. The applicant's credentials are reviewed to assess scholastic performance. The committee also looks for prerequisite qualities of character and personality, potential for self-direction and the use of discriminating judgment, and for dedication to the ideal of service to society.

## GENERAL ENTRANCE INFORMATION

A total of 85 semester (128 quarter) units of credit from an accredited college is required for acceptance by the School of Medicine. Preference is given, however, to college graduates. Credit must be presented for the following subjects:

	SEM./QTR.	HRS.
General biology or zoology, with laboratory		8/12
General or inorganic chemistry, with laboratory		8/12
Organic chemistry, with laboratory		8/12
Physics, with laboratory		8/12
English, equivalent to satisfy baccalaureate degree requirement		
Religion, as required by the college attended		

### Required:

Keyboard and computer skills

### Recommended:

Introductory course in basic statistics

Biochemistry (strongly recommended; can be substituted for second-semester organic chemistry)

Science credits earned in professional schools (e.g., allied health professions, business, dentistry, nursing, or pharmacy) do not fulfill requirements for admission to medicine.

CLEP and Pass/Fail performances are not acceptable for the required courses.

The new Medical College Admission Test (MCAT) is required. Scores older than three years will not be considered.

## APPLICATION PROCEDURE AND ACCEPTANCE

It is important to know the specifics of the application process and to begin the application process well in advance of the date of anticipated (or desired) entrance to medical school.

### Where to write

The School of Medicine is a member of the American Medical College Application Service (AMCAS). Applications must be processed through this service. The AMCAS application booklet may be obtained at the college the applicant is attending or directly from AMCAS.

Inquiry should be addressed to the following:  
 American Medical College Application Service  
 Student Services  
 2450 N Street, N.W., Suite 201  
 Washington, DC 20037-1131

#### Deadline

Application should be made directly to AMCAS between June 1 and November for entry in August of the following year.

#### Fees

The AMCAS fee is required each time an application is submitted. An additional fee to the School of Medicine is required with each application.

#### Procedure

The application procedure is as follows:

1. The applicant submits a formal application to AMCAS, with fee and requested transcripts. The applicant's evaluated data are forwarded to the School of Medicine by AMCAS.
2. When the application is received from AMCAS, Loma Linda University School of Medicine requests completion of a supplementary application and reference forms. The prospective student should provide evidence of exposure to health care through personal involvement, or in other ways confirming the applicant's decision to become a physician.
3. After the supplementary application and letters of reference have been submitted and reviewed, the applicant may be invited for an interview.
4. The information submitted by the applicant through AMCAS, the supplementary application, the letters of reference, and the interview reports are then evaluated by the Admissions Committee of the School of Medicine. This committee determines whether an applicant is accepted or rejected. All applicants are notified of the final decision of the Admissions Committee regarding their application. Acceptance notices are sent to regular applicants beginning December of the year preceding matriculation, continuing until the class is filled.
5. The accepted applicant sends a written acceptance of his/her offer of matriculation as a student, together with a \$100 acceptance deposit, by the announced date (about thirty days after the notification of acceptance). This deposit is refundable until May 15 of the year in which the student has been accepted for entry.

In summary, the Admissions Office requests the following:

- Loma Linda University School of Medicine secondary application and \$55.00 application fee.

- Appraisal of the applicant's character, ability, and suitability for a medical career by persons knowledgeable about the applicant's past performance.
- A preprofessional recommendation packet, if available, from the applicant's undergraduate college/university.
- Applicant's availability for interviews.

#### Incoming transcripts

Transcripts that convey the grades and credits earned in each subject at all universities and/or colleges attended are required of all accepted students. Official transcripts should be in the Office of the Dean at the time of registration.

#### EARLY-DECISION PROGRAM

A highly qualified applicant to medical school may apply between June 1 and August 1 and be guaranteed a decision by October 1. During that period of time, the applicant may not apply to any other medical school; and if s/he is accepted at Loma Linda University, s/he is committed to that decision. If the applicant is not accepted by October 1, s/he may apply to any school s/he wishes. Those not accepted by October 1 will be considered in the regular applicant pool. On the AMCAS application the applicant indicates that s/he is an early-decision applicant and agrees to comply with the constraints of that program.

#### DEADLINES

June 1 to November 1 (of the year preceding the year of matriculation) is the period for submission of applications for the first-year class.

August 1 (of the year preceding the year of matriculation) is the deadline for submission of application under the Early-Decision Program.

September 1 (of the year preceding the year of matriculation) is the deadline for the submission of credentials for the Early-Decision Program.

November 15 (of the year preceding the year of matriculation) is the deadline for receipt of all supporting credentials for the regular applicant pool.

May 15 (of the year of matriculation) is the date beyond which the deposit of \$100 is not refundable.

#### Transfer

Under exceptional circumstances, the School accepts applicants into the junior year who are transferring from other U.S. medical schools. Such transfers must be for compelling circumstances and are subject to the availability of space and the approval of the Loma Linda University School of Medicine Dean's Administrative Committee.

The University reserves the right to require of an applicant satisfactory completion of written or practical examinations in any course for which transfer credit is requested. Successful completion of USMLE Step I is required.

#### Medical Scientist Training Program

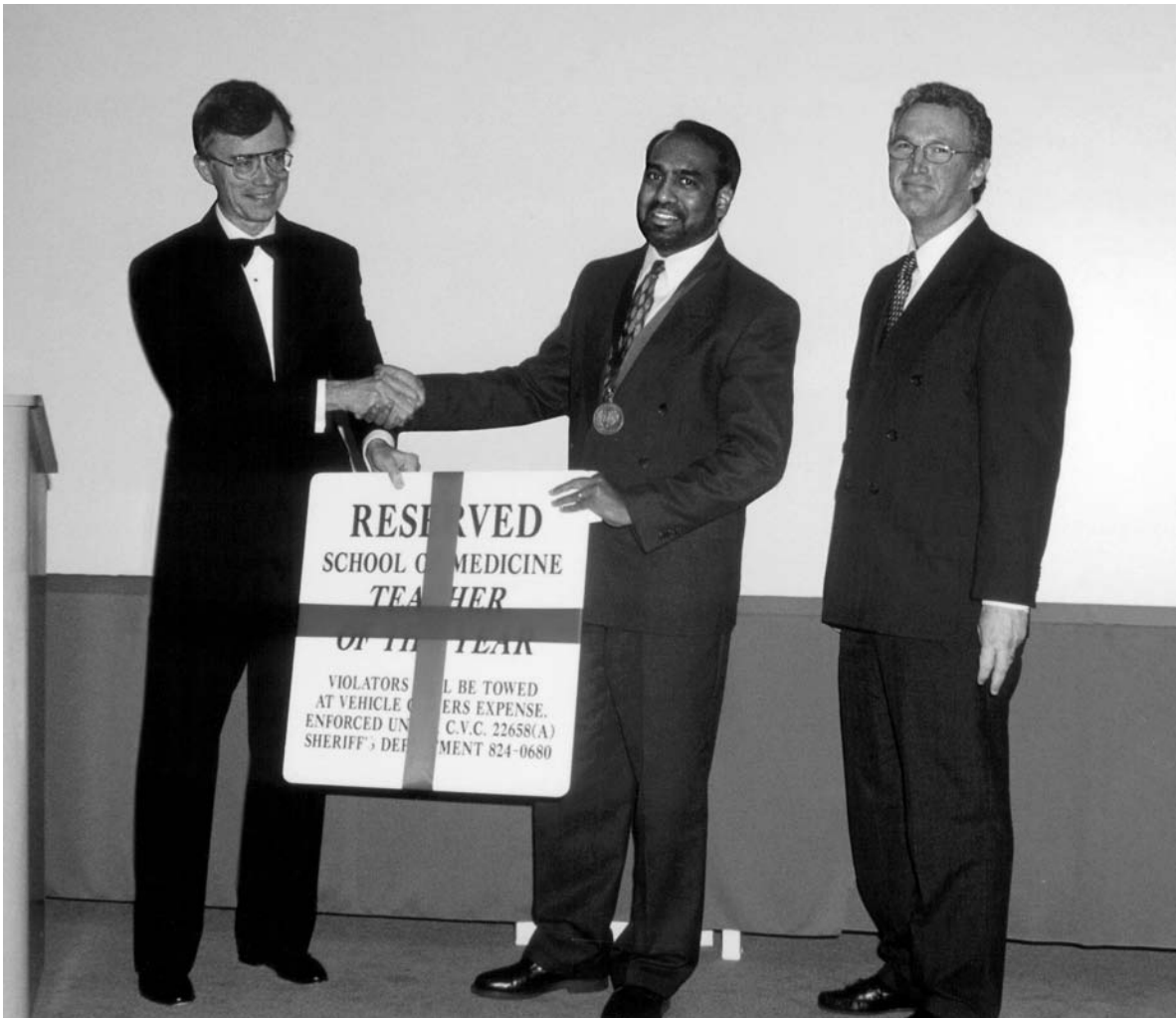
Students interested in the Medical Scientist Training Program are required to take the Graduate Record Examination and must apply to the Graduate School of Loma Linda University as well as to the School of Medicine. The Graduate School application fee will be waived if combined-degrees applications are received prior to November 1.

#### Veterans

A student eligible for veteran's benefits under the current enactment should transfer records to the:

Veterans Administration Regional Office  
11000 Wilshire Boulevard  
Los Angeles, CA 90024.

The student should also notify the Office of Admissions and Records.



# Curriculum

The curriculum in medicine consists of four academic years. Instruction is on the quarter system. The first six quarters are oriented to the sciences basic to the practice of medicine; the remaining two academic years are made up of clinically oriented core instruction and up to twenty-two weeks of clinical electives.

THE FRESHMAN YEAR consists of the study of anatomy/embryology, biochemistry/molecular biology/genetics, cell structure and function, understanding your patient, information science and population-based medicine, fundamental principles of physical diagnosis, medical applications of the basic sciences, and neuroscience.

THE SOPHOMORE YEAR includes microbiology, pharmacology, physiology, and organ-systems pathology. Both pathophysiology and applied physical diagnosis provide the transition between the basic and clinical sciences. Course work in psychopathology builds upon the first-year content.

THE JUNIOR YEAR is fifty-two weeks in length and focuses on internal medicine, pediatrics, gynecology and obstetrics, family medicine, psychiatry, surgery, medical ethics, and orientation to clinical medicine. Didactic work is integrated with ward and clinical assignments.

THE SENIOR YEAR is forty weeks in length. Required clinical clerkships include subinternships in internal medicine or surgery; intensive care/emergency medicine, ambulatory care, and neurology; and up to twenty-six weeks of electives.

## WHOLE-PERSON FORMATION

Personal and professional growth for the student in medicine is the focus of the disciplines in the School, the faculty in the School of Medicine, and the Faculty of Religion. Courses and content are offered to emphasize biblical, ethical, and relational aspects of the practice of medicine. The core for Whole-Person Formation—ten quarter hours of religion and ethics—is provided during the first two years of the medicine curriculum.

## CURRICULUM OUTLINE

<b>Year 1</b>			
1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
Gross Anatomy You and Your Patient Information Science and Population-Based Medicine			
	Medical Neuroscience Physical Diagnosis		
	Cell Structure and Function Medical Applications of the Basic Sciences Medical Biochemistry/Molecular Biology/Genetics Religion		
<b>Year 2</b>			
Microbiology Psychopathology			
	Physiology		
	Pathophysiology and Applied Physical Diagnosis Pharmacology		
	Pathology Religion		
<b>Year 3</b>			
Clinical Clerkships (required)			
Surgery (12 weeks)	Medicine (12 weeks)	Pediatrics (8 weeks)	Obstetrics/Gynecology (6 weeks)
Family Medicine (4 weeks)	Psychiatry (6 weeks)	Orientation to Clinical Medicine (4 weeks)	
<b>Year 4</b>			
Clinical Clerkships (required)			
Intensive Care/Emergency Medicine (2 weeks)	Medicine (2 weeks)	Ambulatory Care (4 weeks)	
Neurology (4 weeks)	Electives (20-26 weeks)	Subinternships: Internal Medicine or Surgery (4 weeks)	

## CLOCK-HOUR DISTRIBUTION

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	TOTAL
Anatomy/Embryology	101	—	—	—	101
Cell Structure and Function	120	—	—	—	120
Emergency Medicine				120	120
Family Medicine			240	240	480
Gynecology and Obstetrics			360		360
Information Sciences and Population-Based Medicine	35				35
Intensive Care				120	120
Medical Applications of the Basic Sciences	40				40
Medical Biochemistry/Molecular Biology/Genetics	111				111
Medical Neuroscience	71				71
Medicine			720	240	960
Microbiology		94			94
Neurology				240	240
Orientation to Clinical Medicine			240		240
Pathophysiology and Applied Physical Diagnosis		78			78
Pathology		190			190
Pediatrics			480		480
Pharmacology		86			86
Physical Diagnosis	116				116
Physical Medicine and Rehabilitation			**		
Physiology		120			120
Psychiatry	41	52	360		453
Surgery**			720	240	960
Anesthesiology/Critical Care			*	*	
Neurosurgery			*	*	
Ophthalmology			*	*	
Orthopaedics			*	*	
Otolaryngology			*	*	
Urology			*	*	
Religion and Ethics	66	44	22		132
Elective				1200	1200
<b>TOTAL</b>	<b>701</b>	<b>664</b>	<b>3142</b>	<b>2400</b>	<b>6907</b>

\*part of surgery rotation

\*\*integrated with clerkship training

## Course numbers

Ordinarily, course numbers reflect the year in which the courses are taken.

**Undergraduate:**

100-199 freshman  
201-299 sophomore  
301-399 junior  
401-499 senior

**Postbaccalaureate:**

701-749 freshman  
751-799 sophomore  
801-849 junior  
851-899 senior

**CONJOINT COURSES****MDCJ 501 Introduction to Medicine SM (2)**

Taught by the Department of Medicine and the Faculty of Religion for students in the Early-Decision Program. Designed to help students develop the writing and reading skills essential to perform medical duties, and to help students develop the whole-person-care focus necessary for success as a physician.

**MDCJ 502 Introduction to Medicine II (2)**

Taught by the Faculty of Religion and by the Departments of Biochemistry, Medicine, Pathology (Division of Human Anatomy), and Surgery for students in the Early-Decision Program. Designed to help students develop skills in problem-based learning, standardized patient assessment, and as whole-person care, which are necessary skills for success as a physician.

**MDCJ 521, 522, 523 Physical Diagnosis (8)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination.

**MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis (9)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

- (1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.
- (2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.

**MDCJ 531, 532, 533 Cell Structure and Function (14)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (10)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to the understanding of cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic and eukaryotic cells.

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (7)**

Fundamentals of neuroanatomy and neurophysiology integrated in a clinical context with principles of the human nervous system.

**MDCJ 545, 546, 547 Medical Applications of the Basic Sciences (3, 2, 2)**

Students solve clinical problems by using their medical knowledge and accessing appropriate learning resources. Independent and small-group activities help students to identify their personal learning issues. A minimum of four hours per week in independent, self-directed learning activities.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

**DEPARTMENT COURSES**

Please refer to the departmental listings, arranged alphabetically.

**GRADUATE EDUCATION**

Graduate programs leading to the Master of Science and Doctor of Philosophy degrees are offered by the preclinical Departments of Anatomy, Biochemistry, Microbiology, Molecular Genetics, and Physiology and Pharmacology.

**COMBINED-DEGREES PROGRAMS**

Loma Linda University is committed to fostering the investigative skills of its medical students. Students interested in pursuing careers in academic medicine and medical research may wish to enroll in one of the combined-degrees programs.

**Medical Scientist Training Program**

The Medical Scientist Training Program is designed to develop a student's independence and competence as an investigative scientist and clinician. It provides students with a broad educational base for the practice of medicine and medically related research. The program is administered jointly by the School of Medicine and the Graduate School. During the first three years of the program, students follow an integrated curriculum that includes medical courses, graduate education, and research training.



In the first year the curriculum includes a course sequence, taught by an interdisciplinary faculty, that integrates aspects of biochemistry, molecular genetics, molecular biology, cell physiology, and cell ultrastructure into a rigorous survey of cellular biology. Clinical information is added to this framework by weekly correlative sessions. During subsequent years, formal courses continue to broaden and integrate into a meaningful whole an understanding of the clinical consequences of cellular events.

Beginning in the fourth year and continuing for two or more years, students pursue full-time research on a project of their own design within the graduate programs of human anatomy, biochemistry, microbiology and molecular genetics, and/or physiology and pharmacology. Research training within these programs is available in nationally recognized research laboratories in the School of Medicine. After completing the Ph.D. degree, students return to the medical curriculum to complete the last two years of clinical training to obtain the Doctor of Medicine degree.

For acceptance into the Medical Scientist Training Program, graduation from an accredited college is required. Students must simultaneously submit applications to the School of Medicine and the Graduate School. Scores on the general test of the Graduate Record Examination are required. The Department of Biochemistry requires and the Department of Physiology and Pharmacology recommends a basic course in calculus and two quarters of physical chemistry. Students who have completed at least 8 units in biochemistry may qualify for reduced biochemistry course work in the Medical Scientist Training Program.

For information regarding tuition waivers and scholarships, contact the director of the Medical Scientist Training Program.

#### **Combined-degrees program**

The combined M.D./Ph.D.-degrees program is also jointly sponsored by the School of Medicine and the Graduate School and includes many of the features of the Medical Scientist Training Program. The primary difference is that students complete the first two years of the standard medical curriculum before beginning graduate studies or research training. This is followed by three or more years of graduate course work and research to qualify for a Ph.D. degree, or at least one year for an M.S. degree, before commencing the last two years of clinical training for the Doctor of Medicine degree. Majors are offered in anatomy, biochemistry, microbiology and molecular genetics, and physiology and pharmacology.

For the combined M.D./Ph.D. and M.D./M.S. degrees programs, the prerequisites and Graduate Record Examination requirements are similar to those described for the Medical Scientist Training Program. Biochemistry is not required.

## **RESIDENCY PROGRAMS**

Loma Linda University Medical Center and other hospitals affiliated with Loma Linda University School of Medicine provide a variety of graduate medical education programs. These include residencies in anesthesiology, combined medicine/pediatrics, dental anesthesia, dermatology, emergency medicine, family practice, internal medicine, neurology, neurosurgery, obstetrics and gynecology, ophthalmology, oral implantology, oral surgery, orthopaedic surgery, otolaryngology, pathology, pediatrics, physical medicine/rehabilitation, preventive medicine, psychiatry, radiation oncology, diagnostic radiology, general surgery, plastic surgery, thoracic surgery, urology, and general vascular surgery.

Subspecialty residencies are offered in cardiovascular disease, gastroenterology, nephrology, rheumatology, pulmonary disease/critical care medicine, neonatal-perinatal medicine, orthopaedics (hand surgery), pain management, pediatric critical care medicine, vascular/interventional radiology, neuroradiology, pediatric radiology, emergency medicine/pediatrics, pain-management anesthesiology, child neurology, maternal-fetal medicine.

Graduate physicians wishing to apply for entrance into these programs should apply directly to the program director of the specialty.

## **CONTINUING MEDICAL EDUCATION**

Recognizing the imperative of life-long learning for professionals, the School of Medicine supports a program of continuing medical education for physicians beyond their formal postgraduate years. The Office of Continuing Medical Education is accredited by the Accreditation Council for Continuing Medical Education to provide Category I continuing medical education credit for physicians. Course offerings include weekly, bi-weekly and monthly School of Medicine departmental grand rounds and a large number of one-day and multi-day conferences and workshops that are presented locally and nationally for School of Medicine faculty, alumni and practicing physicians within the geographic area in which the conferences are presented.

For more information please write to:  
Thomas Zirkle, M.D., Assistant Dean for  
Continuing Medical Education,  
Loma Linda University Medical Center, Room A505  
Loma Linda, CA 92350;  
or telephone (909) 558-4963.

# Clinical Facilities

**C**linical instruction takes place primarily at Loma Linda University Medical Center, which includes Children's Hospital; and at Loma Linda University Community Hospital, Jerry L. Pettis Memorial Veterans Medical Center, Riverside County Regional Medical Center, Loma Linda University Behavioral Medicine Center, and White Memorial Medical Center. Also utilized are San Bernardino County General Hospital, Kaiser Foundation Hospital, Glendale Adventist Medical Center, and White Memorial Medical Center.

## THE INSTRUCTIONAL RESOURCES

### Loma Linda University Medical Center

The Medical Center is a major teaching center serving San Bernardino and Riverside counties. In addition to its large population of referred patients, the Medical Center is also the Level 1 trauma center for the region and is the tertiary-care center for high-risk obstetrics and neonatal intensive care. A new extension of the hospital houses the Loma Linda Cancer Center and the Proton Treatment Center for cancer therapy. All patients in the Medical Center are available for medical student, resident, and fellowship training.

### Loma Linda University Children's Hospital

The Children's Hospital provides a single, centralized location where newborns, infants, and children can receive comprehensive medical care. Being seen at a comprehensive center for children's health care assures children and their parents that all aspects of their health will be closely monitored and understood. Loma Linda University Children's Hospital, pediatric nurses, physicians, surgeons, anesthesiologists, radiologists, and other professionals work together to assure that every patient receives the highest possible quality of medical attention.

The organization of a children's hospital also means that the hospital's staff is chosen from among people who are specially trained and have a deep interest in children's health care. Every Children's Hospital employee is highly skilled in dealing with children and has made the care of children a personal priority. The Children's Hospital is the place for little faces.

### Loma Linda University Community Hospital

The Community Hospital is a teaching resource for medical students in family medicine and internal medicine as well as house staff in family medicine and general pediatrics.

### Faculty Medical Offices (FMO)

The FMO includes facilities for all specialties, an outpatient surgery suite that handles approximately 30 percent of all the surgery done at the Medical Center, and an urgent-care center. The FMO is utilized for students' outpatient experience in nearly all specialties.

### Jerry L. Pettis Memorial Veterans Medical Center

This medical center serves a wide geographic area and cares for a large population of veterans. Outpatient clinics and inpatient wards are available for student and resident teaching. The residency programs are integrated with the University Medical Center and are under the supervision of the faculty of the School of Medicine. The Dean's Committee helps to coordinate the patient care and teaching activities of the veterans medical center.

### Riverside County Regional Medical Center

The medical center is located twenty miles south of Loma Linda in the city of Riverside. The patient population reflects an inner-city profile with a large concentration of urgent medical and surgical, trauma, obstetrics, and pediatrics cases. All patients are available for student, resident, and fellowship training.

### Loma Linda University Behavioral Medicine Center

This freestanding, full-service psychiatric hospital opened in early 1991. Loma Linda University Behavioral Medicine Center offers adult, child, adolescent, and chemical-dependency services, including inpatient and partial hospitalization. There is special emphasis on services that provide the integration of Christian faith with psychiatric care for those patients desiring such. This expansion of clinical services greatly enhances the teaching of medical students and residents as well as the clinical research potential.

### Other facilities

Also utilized are San Bernardino County General Hospital, Kaiser Foundation Hospitals, Glendale Adventist Medical Center, and White Memorial Medical Center.

# Research Centers

**B**asic science investigation is advanced and patient treatment is enhanced through the ground-breaking research conducted at the five centers of the School of Medicine.

## CENTER FOR MOLECULAR BIOLOGY AND GENE THERAPY

The Center for Molecular Biology and Gene Therapy conducts basic science research and training in the field of cellular and molecular genetics within the context of a Christian health-sciences university. The goals of the center are to:

- Establish and maintain an active research program in the field of cellular and molecular genetics.
- Conduct basic science scholarly research that provides a foundation for molecular medicine at this University.
- Apply molecular genetic basic science research to the development of cellular and genetic therapies for treatment of neurological disorders as well as diseases such as cancer.
- Develop and promote courses to train faculty and students at this University in cellular and molecular genetic technologies.

The center's core facility, the DNA laboratory, provides services to the University research community, such as DNA sequencing and oligo nucleotide synthesis (synthesizing small DNA fragments or small genes); and uses real-time PCR equipment to measure DNA and RNA in small amounts and to amplify levels in tissue or cell samples.

## CENTER FOR NEUROIMMUNOLOGY

The center seeks to develop basic clinical and research programs that provide insight into the scientific foundations underlying the integration of body, mind, and spirit in healing and in wellness. The center is strongly committed to providing a training environment and opportunities for medical students, clinical fellows, and early-career faculty members who wish to participate in interdisciplinary research.

## MUSCULOSKELETAL DISEASE CENTER

The Musculoskeletal Disease Center (MDC) pursues research in molecular medicine, including gene therapy and molecular genetics, as its primary approach to diseases of the musculoskeletal system. The gene therapy research involves local and systemic therapy for musculoskeletal diseases, particularly osteoporosis. The Osteoporosis Research Clinic, which is a part of the MDC, offers state-of-the-art x-ray imaging for bone-density scans and conducts clinical research studies in numerous areas other than osteoporosis.

Areas of research interest relevant to the MDC include:

- Signal transduction mechanisms involved in mediating the effects of mechanical strain to culminate in increased bone formation.
- Molecular mechanism of action of anabolic agents—including fluoride, a bone-cell mitogen.
- Role of the IGF system in the pathogenesis of bone loss and hip fracture.
- Identification of and functional studies of genes involved in the musculoskeletal system.

Medical students and postdoctoral fellows from around the world receive training in the MDC laboratories, participate—often with honors—at local and national basic research and clinical research meetings. They are given many opportunities for collaboration with other research laboratories, nationally and internationally.

### NEUROSURGERY CENTER FOR RESEARCH, TRAINING, AND EDUCATION

The Neurosurgery Center for Research, Training, and Education pursues ways to improve patient care. Its primary goals are to develop new biologically and technologically advanced, minimally invasive surgical techniques and instrumentation, in collaboration with the general, plastic, urological, cardiothoracic, and neurosurgical services; to facilitate training in new techniques, such as endoscopic surgery; and to stimulate research in all surgical fields, with emphasis on neurosurgical procedures. The director and associate director of the center hold nearly three dozen international and three dozen United States patents (and have over a dozen patents pending) on surgical instruments and surgical assistive devices they have invented. The center provides:

- Research and training resources for education in general surgery and neurosurgery as well as CME approval of preceptorships for medical students, surgical residents, faculty, outside physicians, and visiting scholars on sabbatical, national and international (although the center's educational directives are intended primarily for surgical residents who are in a formal curriculum).
- Opportunities for surgical training on *ex vivo* models, then laboratory animals.
- A curriculum for training in laparoscopic surgery.
- Instrumentation and laboratories for endoscopic experience.
- CME-approved training in sutureless vascular anastomosis techniques.

- A computerized data bank for an international study of vascular accesses performed with nonpenetrating clips—a study involving medical students and the School of Public Health Biostatistics Service.
- A video network connecting LLU operating rooms with other institutions that are a part of the Center of Excellence Program.

### CENTER FOR PERINATAL BIOLOGY

The primary research focus of the Center for Perinatal Biology is investigation of fetal and neonatal biology and physiology. The majority of the funding to support this research is derived from competitive grants awarded by the National Institutes of Health; additional funding is provided by the National Science Foundation, the American Heart Association, the March of Dimes–Birth Defects Foundation, and other agencies.

The biomedical scientists in this internationally renowned research center also teach basic science courses in the School of Medicine and graduate courses in their disciplines: physiology/pharmacology, gynecology/obstetrics, pathology/human anatomy, biochemistry/microbiology, and pediatrics. The center is an ideal environment for the graduate students, postdoctoral fellows, and beginning investigators who spend from two-to-four years in research and training in fields related to developmental physiology. Visiting scholars from other universities also work in the center during sabbaticals or other interims.



# Student Life

## STUDENT LIFE

The information on student life contained in this BULLETIN is brief. The *Student Handbook* more comprehensively addresses University and School expectations, regulations, and policies and is made available to each registered student and to prospective students who request a copy in writing from the School of Medicine, office of the associate dean for student affairs. Students are expected to familiarize themselves with the contents of the *Student Handbook* and to abide by its policies. Additional information regarding policies specific to a particular school or program within the University is available from the respective School.

## FROM UNIVERSITY TO STUDENT

Loma Linda University was established to provide education in a distinctively Christian environment. Students are expected to respect the standards and ideals of the Seventh-day Adventist church. Application to and enrollment in the University constitute the student's commitment to honor and abide by the academic and social practices and regulations stated in announcements, bulletins, handbooks, and other printed materials; and to maintain a manner that is mature and compatible with the University's function as an institution of higher learning.

## STUDENT CONDUCT

It is inevitable that the student will come under question if:

- his/her academic performance is below standard;
- s/he neglects other student duties;
- his/her social conduct is unbecoming; or
- his/her attitudes demonstrate deficiencies such as poor judgment, moral inadequacy, or other forms of immaturity.

Procedures for evaluation of student academic and nonacademic performance—as well as for the student to initiate grievance procedures and/or to exercise his/her right of appeal—are described in each School's section of the *Student Handbook*.

Prospective students who have questions concerning the University's expectations should seek specific information prior to enrollment.

## WHOLE-PERSON HEALTH

The University regards the student from a cosmopolitan and comprehensive point of view—

- cosmopolitan, in that the University's global mission seeks to promote bonds and opportunities in education and service without regard to sex, national or racial origin, or geographical origin; and
- comprehensive, in that the University's concern for the welfare of the student traditionally has been an integrated concern for assisting the student in balanced development.

Students from all schools of Loma Linda University have the opportunity to participate in a variety of programs designed to foster social, intellectual, physical, emotional, and spiritual wellness. These programs support Loma Linda University's motto, "To make man whole."

Opportunities for personal development and spiritual enrichment are provided in the regular schedule of religious exercises and activities and in informal association with others who cherish spiritual values.

Religion classes that focus on such subjects as "The Art of Integrative Patient Care," "Biomedical Ethics," and "God and Human Suffering" and a weekly chapel service are part of the required curriculum.

Loma Linda University also offers opportunities for students to complement their formal learning through participation in a wide variety of activities which can enrich their group interaction and leadership experiences, increase their interests in fields outside their profession, develop their talents, and enhance wholesome and memorable association with others.

Situated within easy access of the ocean, mountains, and desert, the University provides numerous opportunities for social and cultural activities. A variety of University-, School-, and group-sponsored events encourage students to relax and become better acquainted with one another.

The University encourages physical fitness by providing courses in field exercises, body building, and health instruction. An effort is made to interest each student in some recreational and health-building activity that may be carried over to enhance future life.

### The Drayson Center

The Drayson Center, Loma Linda University's recreation and wellness center, provides state-of-the-art fitness facilities. It includes a 21,000-square-foot multipurpose gymnasium, which houses three full-size basketball courts, five volleyball courts, and nine badminton courts. Circling the gymnasium's inside perimeter is a three-lane, elevated, rubberized running track. The facility also includes five racquetball courts with viewing areas, and fully equipped men's and women's locker rooms. Aerobics studios and cardiovascular and fitness areas are equipped for strength training, sports conditioning, body building, and power lifting. A large, ten-lane lap pool is

designed to accommodate scuba diving classes. A 22-foot-high, 150-foot water slide ends in the nearby recreational pool. This shallow pool is wheelchair accessible. An outdoor Jacuzzi is also available. Included in the complex are a lighted, six-court tennis facility; a 400,000-square-foot multi-use recreational area with four softball fields; a half-mile-long track; and picnic and game areas.

The Drayson Center offers lifetime leisure classes (noncredit), such as low- and high-impact "classicize" aerobics, scuba diving, tennis, weight training, abdominal workout, karate, Tai-chi, photography, and basic calligraphy. Physical and nutritional assessments are also available.

## UNIVERSITY STUDENT/FAMILY COUNSELING CENTER

The University Counseling Center offers a variety of confidential services to students and their families, including: individual, premarital, marital, family, and group counseling regarding issues of adjustment, anxiety, depression, etc.; skills in time management, studying, and test-taking; and 24-hour emergency crisis intervention. The center is located at 11374 Mountain View Avenue, Loma Linda. Full-time students may receive up to nine free visits. Call 909/558-4505 or (on campus) 66028 to schedule an appointment or for more information.

## STUDENT ASSISTANCE PROGRAM

The Loma Linda Student Assistance Program (LLSAP) provides professional and caring assessment and treatment for a variety of personal, family, work, and school-related issues. LLSAP clinicians will develop a treatment plan that may include free short-term counseling. If more extensive treatment is appropriate, clients are referred to a community therapist who specializes in the student's area of concern and who is covered by the student's health plan. All information is confidential. LLSAP clinicians will not release information without the written consent of the student, with the exception of matters that fall under mandatory reporting laws.

LLSAP, the only nationally accredited student assistance program in California, has provided state-of-the-art services to students since it was established in 1990.

Appointments may be scheduled during office hours: Monday through Wednesday 8 a.m.-5 p.m.; Thursday 8 a.m.-8 p.m.; Friday 8 a.m.-1 p.m. Additional appointments times may be available upon request.

All LLSAP services are free of charge.

For further information or to schedule a confidential appointment, the student may phone—off campus: 909/558-6050; on campus: 66050.

LLSAP is located at:

11360 Mountain View Avenue  
Hartford Building, Suite A  
Loma Linda, CA 92354.

## TEACHING LEARNING CENTER

The Teaching Learning Center works with students to develop the reading, writing, analytical, and study skills needed to succeed in professional education. The center offers three ABLE programs that will help students face academic challenges by:

- A ssessing learning style and reading skills.
- B reaking through in reading speed and comprehension.
- L earning analytical and memory techniques and skills.
- E nhancing ability to take tests and examinations.

If a student is having scholastic difficulties, the center will assess the student and tailor a program designed to increase and/or improve his/her reading speed and comprehension, writing clarity, analytical abilities, and other study skills—using the student's own course materials.

The center is located on campus in Evans Hall, room 207. There is no charge to the student for assessment and evaluation. The regular student tuition package does not include the TLC tuition. However, TLC tuition is lower than regular tuition. For additional information, please call 909/558-8625.

## THE STUDENT HEALTH PLAN

Because the health, vitality, and welfare of its students and their dependents are of major concern to the University, Loma Linda University sponsors and funds the Student Health Plan, a health care plan that provides health service and medical coverage to all eligible students. It includes the following benefits: Student Health Service, 24-hour coverage, and generous coverage through preferred providers. The Student Health Plan provides a broad range of medical coverage but does not provide dental or vision coverage.

### Student Health Service

Professional services are rendered by the Student Health Service, which provides basic care to students. The Student Health Service is located in the Center for Health Promotion in Evans Hall, corner of Stewart and Anderson streets. The hours are 8 A.M.–5 P.M. Monday through Thursday, 8 A.M.–2 P.M. on Friday.

### Supplementary medical-coverage policy

The Student Health Plan is an “excess” policy and only supplements other medical plans that provide benefits to the student. The student first obtains direct-provider payment, or reimbursement for out-of-pocket payments, from all other medical plans that provide benefits for the student; only then does the student submit bills to the Student Health Plan for any remaining balance not covered by the other plans. The student must, therefore, follow all rules of his/her primary

insurance in obtaining medical treatment. The student should contact the primary carrier to determine what procedure to follow.

### Eligibility

The Student Health Plan automatically covers all full-time students at Loma Linda University in any clinical or academic program. Students are covered when enrolled for 7 units or more per quarter (or clock-hour equivalent, as defined by each School) for which Loma Linda University is receiving tuition and applicable fees (excluding load validation, “in progress” [IP] units, “employee tuition benefit” units, and “audit” units).

Students enrolled for field practicum are eligible for coverage if registered for at least 240 hours per quarter.

### Coverage during clinical/rotations

Students who are accidentally injured while performing their clinical rotation duties do not have to pay their co-payment. If a covered student is doing a school-sponsored clinical or rotation out of the area and becomes ill or injured, any health service and medical care received that is covered by the Student Health Plan will still be covered as if the student were in the Loma Linda area.

### Effective coverage date

An eligible student's coverage becomes effective on the day of orientation or the first day of class. Any purchased benefits will become effective on the day the Department of Risk Management receives the health plan application and payment within the open enrollment period, which is only the first two weeks of each calendar quarter.

### Buy-in provision only during open enrollment

Eligible students are themselves automatically covered by the plan; however, noneligible students—those on summer break and part-time students (e.g., in a clinical program but enrolled for fewer than 7 paid units)—may, if they wish, purchase coverage.

*Those wishing to buy in may enroll in the Student Health Plan only during the first two weeks of each new calendar quarter—that is, during the first two weeks of January, April, July, and October.*

An eligible student may buy Student Health Plan coverage benefits for his/her spouse and/or dependent child(ren). Eligible dependents are the spouse (residing with the insured student) and his/her never-married child(ren) under nineteen years of age, or never-married child(ren) under twenty-four years of age who are full-time student(s), or never-married children under twenty-seven years of age who are full-time graduate student(s).

If a new spouse or eligible dependent is added to the household of a covered student after the two-week enrollment period, then the student has a thirty-day grace period (after the wedding or

after the birth, etc.) in which to buy coverage for the new spouse or new dependent; however, the coverage must be purchased for the entire quarter in which this new status occurred.

Buy-in rates per quarter are:

\$250 Part-time student

\$320 One dependent

\$600 Two or more dependents

Neither Student Finance nor the Department of Risk Management bills the student's account or sends out reminders. Funds received for buy-in coverage must be in the form of a check or money order (payable to the Department of Risk Management).

#### Coverage exclusion for "pre-existing" condition

If a student or patient has not maintained a continuous "creditable coverage" under another health plan during the twelve months prior to the coverage effective date, the following pre-existing-condition exclusion will apply.

This plan will not cover any medical condition, illness, or injury for which medical advice, diagnosis, care, or treatment was recommended or received by the student or patient during the six months prior to the effective date of health plan coverage. This exclusion will apply for twelve months from the student's coverage effective date, unless such an individual remains treatment free during the six-month term beginning with the effective date of coverage. If the individual remains treatment free during the six-month term, the pre-existing condition exclusion will apply only during that six-month period. This exclusion will not apply to pregnancy-related medical expenses or to medical treatment for a newborn or adopted child.

#### Preferred-provider plan, prescriptions, annual term, benefit limits

The Student Health Plan is a preferred-provider plan. A list of preferred physicians and preferred medical facilities is available from Risk Management.

For local students the Student Health Plan covers only those prescriptions purchased through the Loma Linda Campus Pharmacy and/or the Loma Linda University Medical Center Pharmacy. The student co-pays \$10 for generic or \$20 for brand-name prescriptions; the Student Health Plan covers the balance for up to a 30-day supply per prescription.

The annual benefits apply per academic year, July 1 through June 30.

The Student Health Plan will pay medical expenses incurred subject to plan parameters to an annual limit of \$100,000.

Benefits are limited by the terms and conditions set forth in the Student Health Plan booklet. The booklet is available from the Loma Linda University Department of Risk Management. For additional health plan information, phone the Department of Risk Management at 909/558-4386.

## MALPRACTICE INSURANCE

Students are covered by malpractice insurance while acting within the course and scope of any approved clinical assignment. All full-time students at Loma Linda University in any clinical educational program are covered by the Student Health Plan. This plan provides coverage twenty-four hours per day while the student is enrolled at the University. The Student Health Plan waives the deductible and co-payment for accidental injury for students in clinical rotation.

## DISABILITY INSURANCE PLAN

All School of Medicine students are automatically enrolled in a disability insurance program while registered in the School. This program provides limited disability insurance for students while in the program and also allows for conversion to an individual disability insurance policy at the time of graduation. Details of this program are available in the School of Medicine office of the assistant dean for administrative affairs.

## GOVERNING PRACTICES

### Residence hall

The School is coeducational and accepts both single and married students. Any single student who prefers to live on campus may do so.

Students are expected to live on campus unless they are:

- married,
- twenty-one years of age or older,
- in a graduate program, or
- living with their parents.

Students who wish to live off campus but who do not meet one of the foregoing requirements may petition the dean of students for an exception. This should be done well in advance of registration to allow the student adequate time to plan. Additional information about campus housing can be obtained from the University's dean of students.

The student must keep the assistant dean for administrative affairs informed of his or her current address and telephone number and other contact numbers.

### Marriage

A student who marries or changes marital status during the academic year must give the Office of the Dean advance written notice in order to keep the School's records correct and up to date.

### Personal appearance

Students in the classroom or clinical environment must exhibit personal grooming consistent with expectations of the health care institution, the profession, the School, and the University. Specific guidelines are provided by the School.



**Personal property**

The School assumes no responsibility for the loss of the student's personal property, instruments, or other items by theft, fire, or unknown causes. The student is expected to assume responsibility for the safekeeping of personal belongings.

**Criminal background check**

Some clinical affiliation sites require personal background checks on students; these checks must be completed thirty days prior to clinical placement. The checks can be processed through University Security. The student will be informed when a facility requests a background check and will be charged an appropriate fee.

**Cars and transportation**

Students are responsible for transportation arrangements and costs for off-campus assignments and clinical affiliations. All vehicles used to transport fellow students for off-campus assignments must be registered with Campus Security and must have adequate public liability insurance—a minimum of \$100,000 bodily injury and property damage liability.

**Student identification card**

All students will be assigned University ID numbers and issued student ID cards. The University student ID card will be used for library, health, and other services.

In some cases, students are also required to have Medical Center ID badges. Information regarding this requirement can be obtained from the Office of the Dean of the School.

**Substance abuse**

Loma Linda University is committed to providing a learning environment conducive to the fullest possible human development. Because the University holds that a lifestyle that is drug, alcohol, and tobacco free is essential for achieving this goal, it maintains policies that seek a campus environment free of these substances. Students are expected to refrain from substance abuse while enrolled at the University. Substance abuse is considered to be any use of tobacco, alcohol, prescription or nonprescription drugs, or other mood-altering substance which impairs the appropriate functioning of the student. The School offers counseling and other redemptive programs to assist in the recovery from substance dependence or abuse. Continuation with the University will be dependent upon the abuser appropriately utilizing these programs. Failure to comply with these policies will result in discipline up to and including expulsion and, if appropriate, notification of law-enforcement agencies for prosecution.

**Sexual harassment**

Sexual harassment is reprehensible and will not be tolerated by the University. It subverts the mission of the University and threatens the

careers, educational experience, and well-being of students, faculty, employees, and patients.

Because of the sensitive nature of situations involving sexual harassment and to assure speedy and confidential resolution of these issues, students should contact one of the School's designated, trained sexual harassment ombudspersons.

A more comprehensive statement of the policy regarding sexual harassment can be found in the University *Student Handbook*, pp. 95-99.

**Dismissal, grievance**

Students who are involved in dismissal proceedings or who wish to file a grievance are referred to the grievance procedure as outlined—

1. in the **Student Life** section of this BULLETIN (see FROM UNIVERSITY TO STUDENT, par. 3); and
2. in the School section of the *Student Handbook*.

**Employment**

It is recommended that students refrain from assuming work obligations that divert time, attention, and strength from the arduous task of training in their chosen career. A student wishing to work during the school year may petition for permission from the Office of the Dean. The decision of the Office of the Dean regarding such an employment request will be based on grades, class load, health, and School policy.

**Weekend assignment**

From the day of enrollment in the School of Medicine, students are considered to be junior colleagues in the medical profession. They are an integral part of the treatment team. Becoming a physician includes learning to accept responsibility for one's patients 24 hours a day, 7 days a week, 365 days a year—except when alternatives for coverage have been arranged. In order to meet patients' needs and as part of the educational program, students may be required to provide care for their patients on Sabbath.

**STUDENT ORGANIZATIONS**

The purpose of Loma Linda University School of Medicine student organizations is to:

- encourage high Christian ideals among medical students.
- involve medical students in developing and furthering their education.
- enhance involvement in and loyalty to Loma Linda University.
- unite medical students to seek constructive solutions to problems.
- foster leadership among medical students.

At registration into the School of Medicine, students automatically become members of the School of Medicine Student Association. Other student organizations that operate within the

School of Medicine and that are represented on the School of Medicine Senate include the following:

- The American Medical Association-Medical Student Section (AMA-MSS), Loma Linda University Chapter
- The American Medical Student Association (AMSA), Loma Linda University Chapter
- The Christian Medical and Dental Society (CMDs)
- The Organization of Student Representatives (OSR) to the AAMC
- Women in Medicine /American Medical Woman's Association (AMWA), Student Chapter

## AMSA

Membership in the School of Medicine's local chapter of the American Medical Student Association is open to all students in the School.

## AWARDS

### Wil Alexander Whole-Person Care Award

This monetary award is given to two senior medical students who have demonstrated to their peers and colleagues during their clinical years a growing excellence in the physical, mental, emotional, relational, and spiritual care of their patients as part of the art of medical practice.

### Alpha Omega Alpha

Students are recommended for membership in the national honor medical society, Alpha Omega Alpha. This honor is extended to students in the third and fourth years. Membership is determined based on scholastic, professional, and personal performance. The School of Medicine was granted a charter April 1, 1957, for establishing the Epsilon Chapter.

### American Medical Women's Association

This award is presented based on demonstrated professional competence and promise of professional achievement.

### Chinnock Award

The Robert F. Chinnock Award is presented at the end of the senior year to a student who has been outstanding in clinical and academic pediatrics.

### Comstock Award

The Comstock Award is given annually to the senior student with the most distinguished performance in internal medicine. Selection is based on scholarship, science interest and skill, devotion to patient care, and personal attributes of dependability and integrity as demonstrated by the physician for whom the award is named, Daniel D. Comstock.

### Griggs Award

The Griggs Award is presented annually to a senior student selected for meritorious scholarship and service reflecting those qualities demonstrated by the physician and teacher for whom the award is named, Donald E. Griggs.

### Hinshaw Award

The Hinshaw Award, named for David B. Hinshaw, Sr., is presented annually to a senior student who has demonstrated outstanding qualities of leadership and scholarship.

### Hoxie Award

The Hoxie Award is presented annually by the Department of Medicine to a senior student whose meritorious scholarship and service reflect those qualities demonstrated by the physician and teacher for whom the award is named, Harold J. Hoxie.

### Benjamin Kovitz Award

This award is presented to a senior medical student who has demonstrated qualities of leadership and scholarship in the field of psychiatry.

### Walter P. Ordelheide Award

The Ordelheide Award is given annually to a senior student who has demonstrated outstanding scholarship and leadership and who has fostered the promotion and advancement of family medicine.

### President's Award

The President's Award, established in 1960, is presented annually in recognition of superior scholastic attainment and active participation in the student community, within the framework of Christian commitment. One recipient is selected from each school of the University.

### Harold F. Ziprick Award

This award is presented annually by the Department of Gynecology and Obstetrics to a senior student in recognition of overall academic achievement and clinical performance in gynecology and obstetrics, as demonstrated by the physician and teacher for whom the award is named.



# Academic Practices and General Regulations

Loma Linda University School of Medicine was established to provide education of future physicians in an atmosphere in which basic Christian values are honored. The rigorous academic expectations of the institution are consistent with the example of personal excellence embodied in the Christian tradition. Although no religious test is applied, students are expected to respect the standards and ideals of this church-related University. Application to and enrollment in the University constitute the student's commitment to honor and abide by the academic, nonacademic, and social practices, policies, and regulations of the University. These policies are found in BULLETINS, handbooks, announcements, and other published materials. In addition, students are expected to display conduct that is mature and compatible with the University's function as an institution of higher learning and the University's sponsorship by the Seventh-day Adventist church.

The academic progress of each student is monitored by the Academic Review Committee. Specific policies for handling misconduct (academic or nonacademic) are published in the *Student Handbook*.

## GENERAL POLICIES

### Registration

The student must register on or prior to the date designated by the School of Medicine. Registration procedure includes recording information on forms furnished by the Office of University Records, clearing financial arrangements with Student Finance (including all past accounts), completing requirements of the Student Health Service, and having a student-identification picture taken.

Late registration is permissible only in case of compelling reason, and a charge is made if registration is completed after the designated dates. The student shall not attend classes without being registered.

### Classification

The student who has satisfied all prerequisites and who is registered for a standard curriculum leading to a degree or certificate is classified as a regular student of the University. The student who is permitted to remove qualitative or quantitative deficiencies in order to qualify or requalify for regular standing is classified as a provisional student during the transition period. Because of limitations of space and personnel resources, the

School of Medicine does not make provision for students to enroll as special, unclassified, or audit students.

### Attendance

Regular attendance is expected beginning with the first day of each term and is inclusive of all instructional appointments and assemblies. Negligence relative to appointments may be referred to the Office of the Dean for consideration and action.

### Chapel

Attendance is required of all freshman and sophomore medical students at the Wednesday morning chapel, as specified in the Student Handbook.

### Communications

Communications to the medical student regarding academic and clinical assignments, scholarship opportunities, and other important information are routed through the Office of the Dean. The student mailboxes and bulletin board are in the School's administrative area, located in the Medical Center. It is the responsibility of students to check their email and mailboxes and the bulletin board daily.

## REQUIRED SUPPLIES

### Microscope

The student is expected to have access to a satisfactory compound microscope (usually one rented from the School) that meets the following requirements:

- The microscope shall be no older than fifteen years.
- The lenses shall be in good condition and shall include scanning and oil-immersion objectives.
- The equipment shall include an Abbe condenser with rack and pinion adjustment, an iris diaphragm, and a mechanical stage.

### Textbooks

Students are expected to provide themselves with the textbooks recommended each academic year of the curriculum.

### Instruments

The instruments to be acquired include the following: dissection instruments, flashlight, sphygmomanometer, otoscope and ophthalmoscope, percussion hammer, steel tape (inch and centimeter graduation), stethoscope, and tuning fork.

## PRACTICES AND REGULATIONS

### Length of academic residence

To fulfill the degree requirement pertaining to length of academic residence, it is the usual policy that the student must be registered for full-time course work during the entire junior and senior academic years for the Doctor of Medicine degree.

### Course exemptions

Students who seek exemption from registering for courses that they took prior to entering the School of Medicine must qualify for the exemption by passing a comprehensive examination covering the course material in question.

Should the student qualify, in lieu of the regular course the student will be required to participate in an advanced program that may include additional studies, research activities, and/or teaching. A written paper will be required from all students completing the advanced program.

The course director, the Office of Educational Affairs, and the student will work together to determine the content of the advanced program. Full tuition, equivalent to that of the regular program, will be charged.

### Examinations

Students are required to take examinations at the scheduled time. Students will be denied entrance once the examination has officially started.

Should a student miss an examination because of an excused absence, the examination cannot be made up at a later time. Instead, the

comprehensive final examination in the course for which the missed examination occurred will be weighted an amount extra, proportional to the weighting of the missed examination(s). In addition, course directors may require other remediation at their discretion.

In order to have an excused absence, the student must get a written excuse from the dean's office prior to the administration of the test in question. This written excuse must then be provided to the course coordinators. Students missing examinations for health reasons must provide documentation from Student Health that they were indeed ill. Whether or not this documentation is an adequate excuse for missing a test will be left to the discretion of the dean's office.

Students who miss examinations without prior approval from the dean's office have an unexcused absence. As a result, the student will receive a zero for the missed examination(s).

In the event of a bona fide emergency, where prior approval is not feasible, the dean's office must be contacted as soon as possible. Failure to do so will result in an unexcused absence.

### Grading policy

Course coordinators submit grades at the end of the course, indicating the overall evaluation of the student's performance in the course. The grade will reflect the success or failure of the student in meeting the objectives of the course in terms of knowledge, skills, attitudes, and values. The evaluation of the student will be recorded as SATISFACTORY if the student exceeded the minimum requirements for overall performance. The grade assigned will be SATISFACTORY if the student did not meet the minimum requirements for overall performance. The grade assigned will be MARGINAL PASS if the student met but did not exceed the minimum requirements for overall performance.

Complete promotion and retention policies are distributed to each class at orientation.

### Class standing

Class standing for each course is developed by the course and is merged with standing from other courses to calculate cumulative class standings.

### Promotion

Promotion is contingent on satisfactory academic performance. Both cognitive and noncognitive (including personal suitability to assume the responsibilities of the medical profession) evaluations of academic performance are utilized in making promotion decisions. The Academic Review Committee of the School of Medicine periodically reviews student performance and progress and recommends promotion, retention, or dismissal on the basis of the overall academic record. The *Student Handbook* contains additional details regarding the criteria used by the Academic Review Committee for promotion decisions.

**Withdrawal**

To withdraw from a course(s), the student must complete a Change of Program form; to completely withdraw from school, a Total Withdrawal form must be completed. These forms should be completed and submitted on the last day of class attendance. The date of withdrawal used in calculating tuition refunds will be the date on which the properly completed form is submitted to the Office of University Records.

**USMLE Steps I and II policy**

States vary in the number of times a student can attempt USMLE examinations and still be eligible for licensure. A significant number of states allow no more than three attempts. The school has defined its own limits for number of attempts allowed. Our policy requires students enrolled in the Loma Linda University School of Medicine to pass Step I in no more than three tries.

Students must complete the clinical course work required for graduation within three years of starting the clinical curriculum; they are permitted a maximum of four sequential attempts to pass Step II of the USMLE. The student's first attempt at passing Step II of the USMLE must take place only after s/he has satisfactorily passed all junior clerkships and prior to his/her completion of all required senior clinical course work.

A student who has failed Step II but who has completed all course curriculum requirements must remain enrolled in the School of Medicine as a directed-study student until s/he either has passed Step II of the USMLE or failed Step II of the USMLE for the fourth time. During this directed study, the student will be charged tuition.

**LICENSING EXAMINATIONS****National**

The graduate who holds credentials from the USMLE may be granted a license by endorsement of the examining board of most states. Additional requirements made by some states are given in a pamphlet that may be obtained from the Office of the Dean or from the Federation of State Medical Boards, 400 Fuller Wiser Road, Suite 300, Eules, TX 76039-3855.

**State**

Graduates are eligible to take the examination given by the Medical Board of California. Information regarding the examination may be obtained from the Office of the Dean or from the Medical Board of California, 1430 Howe Street, Sacramento, CA 95825.

**DOCTOR OF MEDICINE DEGREE**

The School of Medicine requires that a candidate must have met the following requirements for the Doctor of Medicine degree:

- Completed all requirements for admission.
- Attended an accredited medical school for four academic years, the last two of which must have been spent at this School.
- Completed honorably all requirements of the curriculum, including specified attendance, level of scholarship, length of academic residence, and credit units.
- Completed additional special examinations covering any or all subjects of the medical curriculum as may be required.
- Successfully completed USMLE examinations (Steps I and II), as specified.
- Given evidence of moral character, of due regard for Christian citizenship, and of consistent responsiveness to the established aims of the University and of the School.
- Discharged financial obligations to the University.

The candidate is required to participate in graduation exercises upon completion of the academic program. If the candidate is out of sequence with his/her current class but would like to participate in the commencement exercises, s/he must have completed a minimum of three months of the required senior clerkships, i.e., medicine, surgery, pediatrics, gynecology/obstetrics, family medicine, neurology, ambulatory care, and intensive care/emergency medicine by April 1 of the year of graduation. Consent for the student to be absent, granted by the president of the University, is contingent on the recommendation of the dean to the president.

The families and friends of graduates are invited to be present at the official Conferring of Degrees service.

**POSTGRADUATE TRAINING**

In harmony with the needs of medicine today, the curriculum leading to the Doctor of Medicine degree is planned with the assumption that all students will take standard postgraduate training in one of the fields of medicine. This means serving as a resident for a minimum of three years in a hospital approved for this training by the Council of Medical Education and Hospitals of the American Medical Association.

The Office of the Dean supplies information and assistance for the arrangement of residencies. Since the School participates in the National Residency Matching Program, selection through this means constitutes approval by the School of Medicine.

# Financial Information

## GENERAL PRACTICES

The student is expected to arrange for financial resources to cover his/her expenses before the beginning of each year. Tuition is due and payable in full before or at the time of initial registration each academic quarter and at the subsequent posted dates. At matriculation, the first quarter's tuition deposit is due at registration and must be paid in cash or financial aid awards. In subsequent quarters, failure to apply for financial aid at least thirty days in advance of registration day will result in a \$50 late-payment fee in addition to any interest due.

## FINANCIAL POLICIES

### Advance payment and refunds

Tuition and fees are payable in full at the beginning of each term. For refund policy information, consult Student Finance.

Students who have their loans (e.g., Stafford) pending (not yet received) at the time of registration and who have not applied for these at least thirty days prior to registration or have not paid the balance due at registration will be assessed a \$50 late-payment fee.

### Monthly statement

The amount of the monthly statement is due and payable in full within thirty days after presentation. An account that is more than thirty days past due is subject to a service charge of .833 percent per month (10 percent per year). Failure to pay scheduled charges or make proper arrangements, which is reported to the dean, may cause the student to be discontinued.

### Financial clearance

The student is expected to keep a clear financial status at all times. Financial clearance must be obtained each term; before receiving a certificate or diploma; or before requesting a transcript, statement of completion, or other certification to be issued to any person, organization, or professional board. To obtain financial clearance from the Student Finance Office, the student must have a zero (0) balance due on account.

In order for a student who is enrolled for less than half time to obtain financial clearance, s/he must be current on all loan account payments and must have fully completed a loan exit interview.

### Checks

Checks should be made payable to Loma Linda University and should show the student's name and identification number to ensure that the correct account is credited. If a check is returned, a \$10 returned check fee will be assessed.

### Veterans

A student eligible to receive veteran's benefits under the current enactment should (a) contact the Office of University Records within the first week following registration, and (b) have a certificate of eligibility sent to the Office of Admissions and Records at Loma Linda University.

In order for a medical student to be eligible to receive educational assistance from the Department of Veteran's Affairs, s/he must maintain a satisfactory grade for all required courses in the School of Medicine for the year that s/he is currently enrolled. If the student's grades reflect unsatisfactory progress, the student will not be certified for the Department of Veteran's Affairs educational benefits until his/her probationary status (usually one year) has been removed and s/he is certified to be in good and regular standing.

## SCHEDULE OF CHARGES 1999-2000, 2000-2001

### TUITION

\$27,124	Full time, 1999-2000
\$27,990	Full time, 2000-2001
\$6,781	Full time, per quarter, 1999-2000
\$6,781	Full time, per quarter, 2000-2001

### FEES

\$110	Graduation fee, seniors
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### SUPPLIES AND INSTRUMENTS (estimated)

\$2,000	Per calendar year
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### LIVING EXPENSES (estimated)

\$7,040	Off-campus student living with parent or relative, per school calendar year 1999-2000
\$7,040	Off-campus student living with parent or relative, per school calendar year 2000-2001
\$10,230	Dormitory student, per calendar year 1999-2000
\$10,230	Dormitory student, per calendar year 2000-2001
\$12,485	Community student providing own housing, per calendar year, 1999-2000
\$12,485	Community student providing own housing, per calendar year, 2000-2001

### SPECIAL CHARGES

\$55	Supplemental application (non-refundable), in addition to AMCAS fee
\$100	Acceptance deposit
\$50	Late-payment fee
\$10	Late financial charge (beginning second week after published registration date)
cost	Health care items not covered by health fee or insurance
cost	Library fine or loss, parking fine, property breakage or loss
cost	Health coverage for spouse and family
\$50	Late registration (beginning first day after published registration date, plus \$3 per additional day)
\$10	Returned-check fee

## STUDENT FINANCIAL AID

Student inquiries about loans from the University, private and federal government funds, and other financial-aid matters may be made in writing to: Financial Aid Adviser, Office of Financial Aid, Loma Linda University, Loma Linda, CA 92350; or by telephone, 909/558-4509 or 800/422-4558. To be considered for University-based aid, the student must complete the graduate financial aid application available from the Office of Financial Aid. Priority deadline is April 15 for the following academic year.

### Sponsors

Some students are sponsored by friends, relatives, or nonrelatives. In some cases the University disburses the funds, while in others the sponsors aid the students directly. Contact the aid adviser for more information.

### WICHE

The University participates in the student exchange program of the Western Interstate Commission for Higher Education (WICHE). Eligibility requirements vary from state to state. The interested student should apply to his/her state's certifying officer for further information. The name and address of the certifying officer may be obtained from WICHE, University of Colorado, Boulder, CO 80302. Inquiry may also be made of the Office of Financial Aid. Application deadline is October 15 of the year preceding that for which admission is desired.

## SCHOLARSHIPS/FELLOWSHIPS

### Military

These support-for-service scholarships pay full tuition, required instruments, and other reasonable educational expenses; as well as provide a monthly stipend. For further information, contact the recruitment office of the army, navy, or air force at your earliest convenience.

### Graduate fellowship

California residents who plan to teach should apply for this program, which is awarded based on need, scholastic ability, and future plans. Application deadline is March 2 for the following year. This grant is renewable for up to three years.

### Medical scientist and combined-degrees fellowships

The School of Medicine has a limited number of competitive fellowships for students in the Medical Scientist Training and in the Combined-Degrees programs. Information may be obtained by writing to the Medical Scientist Training Program director, Loma Linda University.

# III

## THE DEPARTMENTS

Anesthesiology

Biochemistry and Microbiology

Emergency Medicine

Family Medicine

Gynecology and Obstetrics

Medicine

Neurology

Ophthalmology

Orthopaedic Surgery

Pathology and Human Anatomy

Pediatrics

Physical Medicine and Rehabilitation

Physiology and Pharmacology

Psychiatry

Public Health and Preventive Medicine

Radiation Medicine

Radiology

Surgery



# The Departments

The Departments\* of the School of Medicine strive to attain the overall objective—"To make man whole" physically, mentally, emotionally, and spiritually—through interaction between students and faculty in a caring, Christian atmosphere and through the various curricula that reveal belief in the efficacy of this objective.

The Loma Linda University School of Medicine curriculum is taught by approximately 600 full-time as well as part-time and voluntary faculty members in nineteen departments—three basic science departments; fourteen clinical departments; and two departments bridging basic sciences and clinical applications: pathology and human anatomy, and public health and preventive medicine.

The following pages will give a brief statement about each department as well as a listing of each department's various course offerings.

Information about the M.S. and Ph.D. graduate degree programs in the basic science Departments of Biochemistry, Microbiology, Pathology and Human Anatomy, and Physiology and Pharmacology can be obtained from the department chair of the specific program. These various programs are outlined in the BULLETIN of the Graduate School.

## KEY TO CODES

Subject areas are indicated by code letters as follows:

ANAT	Human Anatomy
ANES	Anesthesiology
BCHM	Biochemistry
CMBL	Cell and Molecular Biology
DERM	Dermatology
EMDN	Emergency Medicine
FMDN	Family Medicine
GYOB	Gynecology and Obstetrics
MDCJ	Conjoint
MEDN	Medicine
MICR	Microbiology
NEUR	Neurology
NEUS	Neurosurgery
OPHM	Ophthalmology
ORTH	Orthopaedic Surgery
OTOL	Otolaryngology
PATH	Pathology
PEDS	Pediatrics

PHRM	Pharmacology
PMRH	Physical Medicine and Rehabilitation
PHSL	Physiology
PRVM	Public Health and Preventive Medicine
PSYT	Psychiatry
RADS	Radiology
RDMN	Radiation Medicine
SURG	Surgery
UROL	Urology

Schools are indicated by code letters as follows:

AH	School of Allied Health Professions
GS	Graduate School
PH	School of Public Health
SD or DN	School of Dentistry

\*For convenience of reference, the departments of instruction are listed alphabetically.

# ANESTHESIOLOGY

WAYNE K. JACOBSEN, Chair

ROBERT D. MARTIN, Vice Chair

## DIVISIONS

### CRITICAL CARE

GARY R. STIER, Head

### PAIN CONTROL

LOWELL W. REYNOLDS, Head

The goals of the Department of Anesthesiology are to:

1. Provide necessary anesthesia, analgesia, pain control, and intensive care of the highest caliber and with Christian empathy to patients of Loma Linda University Medical Center and its affiliated facilities.

2. Educate medical students, dentists, and anesthesiology residents in the fields of anesthesia, critical care, and pain control.

3. Increase knowledge of the use of anesthetic and analgesic agents.

## FACULTY

### DISTINGUISHED PROFESSOR

Bernard D. Briggs

### PROFESSORS

Martin W. Allard  
 Roland C. Aloia, BCHM  
 Richard L. Applegate II  
 Floyd S. Brauer  
 Burton A. Briggs, PEDS, SURG  
 Daniel J. Cole  
 Wayne K. Jacobsen, PEDS  
 Robert D. Martin  
 Linda J. Mason, PEDS  
 James A. Meyer

### EMERITUS CLINICAL PROFESSOR

Leslie Rendell-Baker

### CLINICAL PROFESSOR

Bernard J. Brandstater

### ASSOCIATE PROFESSORS

Donald Lynn Anderson  
 Stanley D. Brauer  
 Maureen H. Bull  
 Thomas P. Engel, PHRM  
 Monica M. Neumann

Randall M. Schell

Gary R. Stier

Linda I. Wat

### EMERITUS ASSOCIATE CLINICAL PROFESSOR

Denis F. Lobo

### ASSOCIATE CLINICAL PROFESSOR

Allen L. Brandt

### ASSISTANT PROFESSORS

Sherif A. Azer  
 George Cheng  
 Deborah M. Chung  
 Anne T. Cipta  
 Carl E. Collier  
 Elizabeth Ghazal  
 Erlinda Guzon-Castro  
 Richard K. Hamamura  
 Anna L. Harris  
 Robin Kim  
 Penny Kimball-Johnson  
 Carol A. Lau, PEDS  
 Charles Lee  
 Timothy Lowe  
 Deborah McIvor  
 Phebe E. Mosaad  
 Can Thanh Ngo  
 Lowell W. Reynolds, PMRH  
 Abdul R. Samady

Michelle Schlunt  
Kuldeep Singh  
Shirley Tan  
Teresa L. Thompson  
Sidney E. Torres  
Moheb S. Youssef

**ASSISTANT CLINICAL PROFESSORS**

Rebecca Patchin  
B. B. Roberson  
Victor J. Soloniuk  
Donald L. Stilson

**INSTRUCTOR**

Jothi Gangolly

**CLINICAL INSTRUCTOR**

Samuel Loh

**COURSES**

**SURG 821 Surgery Clerkship (100 hours participation)**

Didactic and clinical instruction in the principles of resuscitation and life support. Supervised administration of general and regional anesthesia. Eight seminars.

**ANES 891 Anesthesiology Elective (arranged)**

# BIOCHEMISTRY AND MICROBIOLOGY

## BIOCHEMISTRY DIVISION

E. CLIFFORD HERRMANN, JR., Head (Acting Co-Chair)

## MICROBIOLOGY DIVISION

JAMES D. KETTERING, Head (Acting Co-Chair)

## BIOCHEMISTRY DIVISION

The primary objectives of the Department of Biochemistry are to:

1. Provide course work in biochemistry at levels appropriate for the various professional curricula.

2. Introduce students to applications of biochemistry that address problems in medicine, dentistry, nutrition, etc., so that they can understand the place of this discipline in each field.

3. Cooperate with colleagues in other areas at Loma Linda University, providing them with biochemical expertise to assist in their research projects or classroom instruction.

4. Offer a master's degree or Doctor of Philosophy degree in biochemistry to medical and dental professionals who have mastered biochemistry and demonstrated independent judgment and the skills essential to biomedical research. This course work can provide a foundation for the further academic training of some who will become biomedical educators of the future.

5. Conduct a high-quality graduate biochemistry program on a Seventh-day Adventist Christian campus for anyone who feels more comfortable in such an environment.

6. Conduct research in biochemistry that contributes to knowledge in biomedical sciences.

## FACULTY

### DISTINGUISHED PROFESSOR

David J. Baylink, MEDN, ORTH

### PROFESSORS

Roland C. Aloia, ANES  
 Richard E. Beltz  
 Daila S. Gridley, MICR, RDMN  
 George T. Javor, MICR  
 Wolff M. Kirsch, NEUS  
 John Leonora, #PHSL, MEDN  
 William Langridge, MICR  
 George M. Lessard  
 Thomas A. Linkhart, PEDS  
 W. Barton Rippon, GS  
 John J. Rossi, MICR

Charles W. Slattery, PEDS

Barry L. Taylor, MICR

R. Bruce Wilcox

Anthony J. Zuccarelli, MICR

### RESEARCH PROFESSORS

John R. Farley, MEDN

David A. Hessinger, PHSL, PHRM

Kin-Hing W. Lau, MEDN

Subburaman Mohan, MEDN, PHSL

Aladar Szalay

Conrad M. Van Gent, MEDN

### ASSOCIATE PROFESSORS

E. Clifford Herrmann

William J. Pearce, PHSL

## ASSOCIATE RESEARCH PROFESSORS

Shin Tai Chen,  
Richard W. Hubbard, PATH  
Donna D. Strong, MEDN, BCHM  
Jon E. Wergedal, MEDN

## ASSISTANT RESEARCH PROFESSOR

Satish M. Sood

## RESEARCH INSTRUCTOR

Chiranjib Dasgupta

## ADJUNCT ASSOCIATE PROFESSOR

Lawrence C. Sowers

## COURSES

**MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (14)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology, the common thread for the course, familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (110 hours) (10)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to understanding cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic and eukaryotic cells.

**MDCJ 545, 546, 547 Medical Applications of the Basic Sciences (3, 2, 2)**

Students solve clinical problems by using their medical knowledge and accessing appropriate learning resources. Independent and small-group activities help students identify their personal learning issues. A minimum of four hours per week in independent, self-directed learning activities.

**BCHM 505 Seminar in Biochemistry (1)****BCHM 506 Seminar Presentation in Biochemistry (1)****BCHM 508 Principles of Biochemistry (6)**

Chemistry of amino acids and proteins. Enzyme properties and mechanisms. Bioenergetics. Chemistry and metabolism of carbohydrates, lipids, amino acids, and nucleic acids. Protein biosynthesis and the control of gene expression. Special topics in physiological chemistry: connective tissue components, acid-base balance, hormones, vitamins and minerals.

**BCHM 523 Introduction to Physical Biochemistry (3)**

Folding of globular and fibrous proteins, emphasizing the relationship between sequence, structure, and function. Biochemical thermodynamics and equilibria, with application to ligand/protein interaction. Multisubstrate enzyme kinetics. Enzyme mechanisms.

Prerequisite: BCHM 508, 515, or equivalent.

**BCHM 525 Metabolic Interrelationships and Control (5)**

Structure, function, and control of enzymes. Control of energy metabolism. Cellular mechanisms of hormone action.

**BCHM 527 Molecular Biology of the Cell (8)**

Identical to CMBL 502.

Crosslisting: CMBL 502; MICR 539.

Prerequisite: BCHM 508 or CMBL 501.

**BCHM 534 Techniques of Biochemistry (5)**

Intensive, integrated laboratory experience in protein chemistry and the physical characterization of macromolecules. Writing scientific papers.

**BCHM 544 Advanced Topics in Biochemistry (arranged) (2-4).**

Examples: membrane biochemistry, transport and bioenergetics, physical methods in biochemistry, metabolic regulation, protein structure, hormonal regulation of metabolism.

Crosslisting: CMBL 538; BIOL 546; MICR 538.

**BCHM 551 Special Problems in Biochemistry (arranged)****BCHM 697 Research (arranged)****BCHM 698 Thesis (arranged)****BCHM 699 Dissertation (arranged)****BCHM 891 Biochemistry Elective (arranged)**

## MICROBIOLOGY DIVISION

The goals of the Department of Microbiology are to:

1. Enable medical, dental, and graduate students to develop an expertise in microbiology and infectious diseases.
2. Conduct and publish research in the field of microbiology.
3. Consult and participate professionally with all of the School's basic science and clinical departments.

## FACULTY

## EMERITUS PROFESSORS

Leonard R. Bullas  
Raymond E. Ryckman  
Edward D. Wagner

## PROFESSORS

Harvey A. Elder, MEDN  
Istvan Fodor  
Daila S. Gridley, RDMN, BCHM  
George T. Javor, BCHM  
James D. Kettering  
William Langridge, BCHM  
Benjamin H. S. Lau  
John E. Lewis, MEDN, PATH  
Yiming Li, SD  
Michael B. Lilly, MEDN  
Sandra Nehlsen-Cannarella, PATH, SURG  
Barry L. Taylor, BCHM  
Anthony J. Zuccarelli, BCHM

## ASSOCIATE PROFESSORS

Lora M. Green, MEDN  
Ira Roy  
Junichi Ryu

## ASSOCIATE RESEARCH PROFESSORS

Mark Johnson  
Giuseppe Molinaro, PATH  
Donna D. Strong, MEDN, BCHM

## ASSISTANT PROFESSORS

Carlos A. Casiano  
William C. Eby  
Alan P. Escher  
Hansel M. Fletcher  
Igor B. Jouline

## INSTRUCTOR

Sandra Hilliker

## ADJUNCT RESEARCH PROFESSOR

John J. Rossi, BCHM

## ADJUNCT ASSOCIATE RESEARCH PROFESSORS

Edouard Cantin  
Ren Jang Lin

## ADJUNCT RESEARCH ASSISTANT PROFESSOR

Daniela Castanotto

## COURSES

## MEDICINE

**MICR 511 Medical Microbiology SM (7)**

Systematic study of microorganisms of medical importance, pathogenic mechanisms, host-parasite relationships, and methods of identification.

**MICR 599 Directed Study (240 hours)****MICR 891 Microbiology Elective (arranged)****MDCJ 514 Immunology SM (27 hours) (2.5)**

Medical immunology, with emphasis on the cellular, humoral, and molecular components of the immune system. Immune responses associated with host defense and disease processes. Immunologic techniques related to the practice of other basic and clinical sciences.

Crosslisting: MDCJ 543; MICR 520.

**MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (14)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology, the common thread for the course, familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments. and eukaryotic cells.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (10)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to the understanding of cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic

**MDCJ 545, 546, 547 Medical Applications of the Basic Sciences (3, 2, 2)**

Students solve clinical problems by using their medical knowledge and accessing appropriate learning resources. Independent and small-group activities help students identify their personal learning issues. A minimum of four hours per week in independent, self-directed learning activities.

## GRADUATE

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in microbiology. This program is outlined in the BULLETIN of the Graduate School.

**MICR 501 Principles of Microbiology DN (3.5)**

Fundamental course for dentists, emphasizing the techniques and concepts of microbiology. Principles of infection and immunity. Systematic study of microorganisms pathogenic for man. Infectious diseases taught in cooperation with the Department of Oral Medicine. Emphasis on dental applications.

**MICR 503 Dental Immunology (2)****MICR 520 Medical Immunology (2.5)**

Introduction to medical immunology. Identical to MDCJ 514. Graduate students must register for this course.

**MICR 521 Medical Microbiology (8)**

Fundamental techniques and concepts of microbiology. Identical to MICR 511. Graduate students must register for this course.

Descriptions for the following courses are found in the Graduate School BULLETIN.

**MICR 530 Introduction to Graduate Immunology (3)****MICR 531 Biological Membranes (3)****MICR 534 Microbial Physiology (3)****MICR 536 Laboratory in Gene Transfer and Gene Expression (4)****MICR 537 Selected Topics in Molecular Biology (2)****MICR 539 Molecular Biology of Prokaryotes and Eukaryotes (8)****MICR 545 Molecular Biology Techniques, Laboratory (4)****MICR 546 Advanced Immunology (4)****MICR 565 Virology (3)****MICR 566 Cell Culture (3)****MICR 604 Seminar in Microbiology (1)****MICR 605 Colloquium (1)****MICR 606 Graduate Seminar (1)****MICR 624 Special Problems in Microbiology (2-4)****MICR 625 Independent Study in Microbiology Literature (2-4)****MICR 626 Special Topics in Microbiology (2-4)****MICR 634 Clinical Microbiology Practicum (4)****MICR 697 Research (1-8)****MICR 698 Thesis (1-3)****MICR 699 Dissertation (1-3)**

# EMERGENCY MEDICINE

WILLIAM A. WITTLAKE, Chair

The philosophy of the Department of Emergency Medicine centers on a commitment to quality in its service, teaching, and research missions. This department functions as a “crossroads” interface between the community and the medical center services, providing a point of access to medical care for many people who are seriously and unexpectedly ill and whose condition may be compromised by geographic isolation and socioeconomic disadvantage.

The objectives of the department are to:

1. Provide and coordinate cost-effective, empathic, and compassionate prehospital, emergency, and trauma services of excellent quality.
2. Support and contribute to the achievement of medical-education competency for all categories of emergency-care professionals.
3. Develop initiatives that promote increased understanding of and improved techniques and skills in emergency-care practice, heighten positive perception of this specialty, and contribute to quality research in this area.
4. Promote teamwork skills among the various services and professionals comprising the emergency medical system.

## FACULTY

### PROFESSORS

Richard E. Chinnock, PEDS  
Steven M. Green  
Ronald M. Perkin, PEDS

### ASSOCIATE PROFESSORS

Richard D. Catalano, SURG  
Stephen W. Corbett  
Bruce S. Heischober, PEDS  
Clare M. Sheridan, PEDS  
Tamara L. Thomas  
William A. Wittlake  
Thomas J. Zirkle, SURG

### ASSISTANT PROFESSORS

Sean P. Bush  
Tony Chow  
Samuel C. Chua  
Linda Daniel-Underwood  
Bernard W. Dannenberg, PEDS  
David M. Englander  
Paul A. L. Giem  
Jeffrey T. Grange  
Melvyn L. Harris

Curtis M. Jensen  
Grace J. Kim  
Victor D. Levine  
E. Lea Lynch  
John C. Naftel  
Brett S. Nelson  
Humberto R. Ochoa  
Mark G. Richmond  
Esther M. Sewell  
Thomas S. Sherwin  
Mark E. Thomas  
Samuel G. Wilson

### ASSISTANT CLINICAL PROFESSORS

Nader A. Abas  
Patricia L. James  
John S. Jones  
James E. Keany, Jr.  
Aqeel S. Khan  
R. Daniel Luther  
Timothy P. Nesper  
Steven G. Rothrock

### INSTRUCTORS

Richard J. Hoffner  
Eric Siedenburg  
Daved W. van Stralen, PEDS



**COURSES**

**SURG 821 Surgery Clerkship (100 hours participation)**

**EMDN 821 Emergency Medicine Clerkship (120 hours)**

Two-week required rotation of seven eight-hour emergency department (ED) shifts. A variety of Loma Linda University Community Hospital ED, Loma Linda University Medical Center ED, Loma Linda University Children's Hospital ED shifts (pediatric side); and an administrative shift—including time in the radio room, on the triage desk, and with the transport nurse. Didactic sessions include attendance at emergency medicine residency conferences and grand rounds, and one-on-one learning experience with the senior administrative resident each Monday morning. Also included are hands-on suture lab, EKG reading tutorial, and case studies in reading common emergency radiographs.

**EMDN 891 Emergency Medicine Elective (arranged)**

Two-week or four-week rotation of four eight-hour emergency department (ED) shifts weekly. Shifts include a variety of Loma Linda University Community Hospital ED, Loma Linda University Medical Center ED, Loma Linda University Children's Hospital ED shifts (pediatric side); and an administrative shift—including time in the radio room, on the triage desk, and with the transport nurse. Didactic sessions include attendance at emergency medicine residency conferences and grand rounds, and one-on-one learning experience with the senior administrative resident each Monday morning. Also included are a hands-on suture lab, EKG reading tutorial, and case studies in reading common emergency radiographs.

**EMDN 892 Emergency Medicine Research Clerkship (240 hours)**



# FAMILY MEDICINE

JOHN K. TESTERMAN, Chair

The objectives of the Department of Family Medicine are to:

1. Provide medical students and residents with the highest level of training in the specialty of family medicine.
2. Help undergraduate students develop the skills to provide continuing and comprehensive health care for individuals and families.
3. Help students gain an appreciation for the breadth of family practice—which integrates the biological, clinical, and behavioral sciences in whole-person care.
4. Teach students that the scope of family practice encompasses health maintenance as well as all disease entities as they may affect all ages, both sexes, and each organ system.
5. Introduce students to family-physician role models so that students will be able to make an informed choice regarding family medicine as a career option.
6. Show medical students a perspective of the health care system and the process of patient intake at the primary level, which includes a clinical experience to evaluate and manage a number of common medical problems seen in the ambulatory setting.

## FACULTY

### EMERITUS PROFESSOR

Raymond O. West

### PROFESSORS

Wil Alexander  
Robert D. Orr

### ASSOCIATE PROFESSORS

Barbara L. Orr  
John K. Testerman  
Leonard S. Werner, MEDN, PHSL/PHRM  
Jack Yu

### ASSOCIATE RESEARCH PROFESSOR

Kelly Morton

### ASSOCIATE CLINICAL PROFESSORS

Mary E. Ferris  
Timothy E. Neufeld

### ASSISTANT PROFESSORS

Y. Paul Aoyagi  
Daniel Castro, MEDN  
Debra D. Craig, MEDN  
Janet A. Cunningham  
Dennis DeLeon  
Linda Deppe  
Linda H. Ferry, PRVM  
John Fleming

Benny Hau  
Helen P. Hopp-Marshak, PH  
Richard Kim  
Robert Mattos  
Richard L. Milholm  
Gina J. Mohn  
Mark W. Olson  
Michelle T. Opsahl  
Shantharam R. Pai  
Earl B. Quijada  
Ivan L. Reeve  
Lois Ritchie  
Jorge L. Rivera, SURG  
Magda L. Robinson  
Alane M. Samarza  
Lauren M. Simon  
Esther Won

### ASSISTANT CLINICAL PROFESSORS

Javier A. Armijo  
Ronald P. Bangasser  
Andre V. Blaylock  
Iris J. Chung  
Warren B. Churg  
Jean-Claude Hage  
Jonathan Horstmann  
Ming Chang Isinhue  
Kenneth M. Kopec  
James S. Ku  
Tony B. Lee  
Gerald Lofthouse  
Manoucher Manoucheri

Elliot A. Meltzer  
 Renu Mittal  
 Walter C. Morgan  
 Wendell Moseley  
 David Nutter  
 Michael R. Oliverio  
 Raul Pardave  
 Lien T. Pham  
 R. Steven Pulverman  
 J. Franklin Randolph  
 Michelle E. Reeves  
 Ruth Stanhiser  
 Jeffrey R. Ungér  
 Dorothy E. Vura-Weis  
 Robert K. Yamada

**INSTRUCTORS**

Ann M. Ronan  
 Nancy Testerman

**CLINICAL INSTRUCTORS**

Norman D. Bravo  
 Tina Haller-Wade  
 Richard A. Leach  
 Margaret H. Lester

**ADJUNCT ASSISTANT CLINICAL PROFESSOR**

Rhonda D. Robinson

**COURSES****FMDN 599 Directed Elective Study (arranged)****FMDN 701 Family Medicine Clerkship  
(240 hours)**

Office management of patients of all ages, with emphasis on integrating biomedical, psychosocial, and spiritual issues. Appropriate preventive care. Four-week rotation includes conferences, didactics, and working with a preceptor.

**FMDN 799 Clinical Selective in Family Medicine  
(Family Care of the Aged) (240 hours)**

Advanced experience in family-centered senior health care. Improves skills specific to geriatric medicine. Familiarizes student with key socioeconomic issues in eldercare. Develops an individual approach to formulating primary-, secondary-, and tertiary-preventive-health strategies for older adults. Familiarizes students with the diagnosis and management of specific geriatric syndromes. (Open to 4th-year students.)

**FMDN 891 Family Medicine Elective (General  
Family Medicine) (arranged) (240 hours)**

Student works with Loma Linda Family Practice faculty to provide both inpatient and outpatient care.

**FMDN 892 Family Medicine Elective  
(Interresidency Elective in Family Medicine)****(240 hours)**

Opportunity for student to experience family-practice residencies with several different models of care: managed care (Kaiser-Fontana and Riverside), indigent/public health approach (San Bernardino County and Riverside General hospitals), and a mixed practice (Loma Linda Family Medicine). Specific learning objectives developed by student, with supervising faculty. (Open to 4th-year students.)

**FMDN 893 Family Medicine Elective (Clinical  
Ethics) (240 hours)**

Practical experience in analysis and decision making for difficult clinical situations. Student participates in ethics consultations, rounds, and conferences; and prepares a literature research paper. (Open to 4th-year students.)

**FMDN 894 Family Medicine Elective  
(Adolescent Pregnancy: Social and Medical  
Aspects) (240 hours)**

Opportunity to learn about medical and social issues related to pregnancy prevention and pregnancy care for adolescents. Participation in teen clinics, high school classrooms for pregnant or parenting teens, home visits, and prevention programs. Required research paper on an area of interest. (Open to 4th-year students.)

**FMDN 895 Family Medicine Elective (Sports  
Medicine) (240 hours)**

Opportunity to develop strong history and physical-examination skills related to sports-medicine problems in various areas, including medical, nutritional, musculoskeletal, or psychosocial. Learning sites include athletic settings, the Department of Family Medicine, and the Drayson Center.

**MDCJ 521, 522, 523 Physical Diagnosis  
(110 hours)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination.

**MDCJ 701 Orientation to Clinical Medicine  
(240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship  
(240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

# GYNECOLOGY AND OBSTETRICS

ALAN KING, Chair

The purpose of the Department of Gynecology and Obstetrics is to provide an academic environment that encourages learning, teaching, and research. The objectives of the department are to:

1. Provide medical students with a broad base of knowledge in obstetrics and gynecology for entrance into a primary-care specialty.
2. Instill a standard of medical excellence that will lead to a continuing program of medical education, reaching through and beyond the residency years.
3. Provide faculty who function as role models for the students and residents.

## FACULTY

### DISTINGUISHED PROFESSOR

Lawrence D. Longo, PHSL, PEDS

### PROFESSORS

Philip J. Chan, PHSL  
 Raymond Gilbert, PHSL  
 Alan King  
 Ronald M. Nelson  
 Gordon G. Power, MEDN, PHSL  
 Elmar P. Sakala

### ASSOCIATE PROFESSORS

Barry S. Block  
 John D. Jacobson  
 Elden D. Keeney  
 Kenneth J. McGill  
 William C. Patton  
 Herminia S. Salvador  
 Ibrahim Seraj  
 Mary L. Small  
 Robert J. Wagner

### ASSOCIATE CLINICAL PROFESSORS

Bert J. Davidson  
 Miguelito M. Fernando  
 Wilbert Gonzalez  
 Robert H. Gregg  
 Beverly J. Gregorius  
 Jack G. Hallatt  
 Massoud Mofid  
 Rick D. Murray  
 Masao Nakamoto  
 Clifford A. Walters  
 Stanley R. M. Zerne

### ASSISTANT PROFESSORS

Johannah Corselli  
 Yvonne G. Gollin  
 Jeffrey S. Hardesty  
 Kathleen M. Lau  
 Leroy A. Reese  
 Hugo D. Riffel  
 Ron Swensen

### ASSISTANT CLINICAL PROFESSORS

Teresa P. Avants  
 Juan C. Drachenberg  
 Thomas E. Gibson, Jr.  
 Young-il H. Hahn  
 Christopher T. Huang  
 Ronald B. Johnson  
 J. Dee Lansing  
 Laurel J. Munson  
 Giglia A. Parker  
 Harold V. Racine  
 Marvin M. Sando  
 Kathryn Shaw  
 E. Laurence Spencer-Smith  
 Darrell L. Vaughan  
 Kim Warner  
 Elvonne Whitney  
 Cinna T. Wohlmuth

### INSTRUCTORS

Michelle L. Evans  
 Emily D. Gibson  
 Marilyn Herber  
 Melissa Y. Kidder  
 Faye J. Whiting

### CLINICAL INSTRUCTOR

Ronald S. Wu

**COURSES**

**GYOB 599 Gynecology and Obstetrics Directed Study (arranged)**

**GYOB 701 Gynecology and Obstetrics Clerkship (480 hours)**

**GYOB 891 Gynecology and Obstetrics Elective (arranged)**

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (78 hours)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

(1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.

(2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.



# MEDICINE

**JAMES J. COUPERUS, Chair**

**PHILIP M. GOLD, Executive Vice Chair and Director of Planning, Loma Linda University**

**J. LAMONT MURDOCH, Vice Chair and Assistant Chief of Service, Loma Linda University Medical Center**

**GLENN L. FOSTER, Vice Chair and Chief of Service, Jerry L. Pettis Veterans Medical Center**

**DANIEL L. BOULAND, Vice Chair, Riverside General Hospital University Medical Center**

## DIVISIONS

### CARDIOLOGY

KENNETH R. JUTZY, Head

### CLINICAL PHARMACOLOGY

RALPH E. CUTLER, Head

### DERMATOLOGY

ABEL TORRES, Head

### ENDOCRINOLOGY

J. LAMONT MURDOCH, Head

### GASTROENTEROLOGY

MICHAEL H. WALTER, Head

### GENERAL INTERNAL MEDICINE AND GERIATRIC MEDICINE

RAYMOND Y. WONG, Head

### INFECTIOUS DISEASE

JAMES J. COUPERUS, Head

### NEPHROLOGY

SIEGMUND TEICHMAN, Head

### ONCOLOGY-HEMATOLOGY

FRANK D. HOWARD IV, Head

### PULMONARY AND CRITICAL CARE MEDICINE

PHILIP M. GOLD, Head

### RHEUMATOLOGY AND IMMUNOLOGY

KEITH K. COLBURN, Head

The motto of Loma Linda University, “To Make Man Whole,” is central to achieving the objectives of the Department of Medicine. We must progress with the science of medicine; and we must also strive to maintain the art of medicine—the caring attitude that is so important to our well-being as physicians and to the well-being of our patients.

The objectives of the department are to:

1. Train medical students in the highest tradition of medical education—both the art and the science of medicine.
2. Train resident physicians in the art, science, and practice of internal medicine consistent with the high ideals of this School and of the American College of Physicians.
3. Disseminate to our colleagues new and recent discoveries in the science of medicine.
4. Be actively involved in the study of basic pathophysiology of disease processes.
5. Care for our patients with expertise and compassion in the highest Christian tradition.

## FACULTY

### INTERNAL MEDICINE DIVISIONS

#### EMERITUS PROFESSORS

William L. Cover  
 Raymond B. Crawford  
 Walter S. Graf  
 George M. Grames  
 Donald L. John  
 Varner J. Johns, Jr.  
 John E. Peterson, Sr.  
 Robert C. Rosenquist, Sr.  
 Stewart W. Shankel  
 Weldon J. Walker

#### DISTINGUISHED PROFESSOR

David J. Baylink, BCHM, ORTH

#### PROFESSORS

Ramesh C. Bansal  
 Yang K. Chen  
 C. Joan Coggin  
 Ralph E. Cutler, PHRM  
 James P. Drinkard  
 Harvey A. Elder, MICR  
 Glenn L. Foster  
 Gary E. Fraser, PRVM  
 Philip M. Gold  
 John J. Harris  
 Raymond Herber  
 Dale M. Isaefff  
 Geun C. Jang

Roy V. Jutzy  
 Irvin N. Kuhn  
 Francis Y. K. Lau  
 John E. Lewis, PATH, MICR  
 Michael B. Lilly, MICR  
 Robert D. Mitchell  
 J. Lamont Murdoch  
 Jerald C. Nelson, PATH  
 Ramdas G. Pai  
 Gordon G. Power, GYOB, PHSL  
 Pravin M. Shah

#### EMERITUS CLINICAL PROFESSOR

Irving L. Leff

#### CLINICAL PROFESSORS

Habeeb Bacchus  
 Martin J. Collen  
 Joseph Gropen  
 L. Julian Haywood  
 Robert L. Johnson  
 Paul A. Levine  
 Carlos E. Ruiz  
 Richard L. Sheldon  
 Dale B. Sparks  
 Herman H. Stone

#### EMERITUS RESEARCH PROFESSOR

Milton G. Crane

#### RESEARCH PROFESSORS

John R. Farley, BCHM  
 Kin-Hing W. Lau, BCHM  
 John Leonora, PHRM, BCHM

Subburaman Mohan, PHSL  
 Conrad M. Van Gent, BCHM  
 William J. Wechter

**EMERITUS ASSOCIATE PROFESSOR**  
 E. Danford Quick

**ASSOCIATE PROFESSORS**

Muyaed Al-Zaibag  
 Patricia J. Applegate  
 David Bland  
 Ingrid K. Blomquist  
 Reiner Bonnet  
 Daniel L. Bouland  
 Evert A. Bruckner  
 Keith K. Colburn  
 Stanley C. Condon  
 James J. Couperus  
 Ralph Downey III  
 Dwight C. Evans  
 David R. Ferry  
 Thomas E. Godfrey  
 Lora M. Green, MICR  
 Paul G. S. J. Hammond  
 Douglas R. Hegstad  
 J. Thomas Heywood  
 John C. Jennings  
 Kenneth R. Jutzy  
 Ke-qin Hu  
 Edwin H. Krick  
 Terence D. Lewis  
 Lawrence K. Loo  
 Robert J. Marsa  
 Donald Miller, NEUR  
 Marc L. Platt  
 Paulo A. Ribeiro  
 Arthur J. Riesenfeld  
 Philip J. Roos  
 Allen L. Schwandt  
 Robert E. Soderblom  
 Siegmund Teichman  
 Vilma Torres  
 Michael H. Walter  
 Leonard S. Werner, FMDN  
 David W. Wilbur  
 Raymond Y. Wong

**ASSOCIATE RESEARCH PROFESSORS**

Cesar Libanati  
 Barbara E. Loughman  
 Keshab D. Pant  
 Donna D. Strong, BCHM  
 Jon E. Wergedal, BCHM

**EMERITUS ASSOCIATE CLINICAL PROFESSORS**

Bertram H. Eckmann  
 Norman M. Shure

**ASSOCIATE CLINICAL PROFESSORS**

Kumaravelu Balasubramaniam  
 Charles H. Brinegar, Jr.  
 Robert H. Chaney

Zeno L. Charles-Marcel  
 James R. Dexter  
 Daniel Gorenberg  
 Albert J. Josselson  
 Gary E. Marais, FMDN  
 H. John Marais, FMDN  
 Sukh S. R. Mehta  
 Edward Phillips  
 Gilbert J. Putnoky  
 Robert E. Rentschler  
 Chauncey L. Smith  
 H. Glenn Stevens  
 Richard M. Strong  
 Carl Wolnisty

**ASSISTANT PROFESSORS**

Ramadas Abboy  
 Imdad Ahmad  
 Shobha S. Aiyar  
 James D. Anholm  
 Dajeet B. Bansal  
 David M. Bee  
 Diane J. Berriman  
 John H. Bocachica  
 Vickie D. Brown-Harrell  
 John M. Byrne  
 Daniel Castro, FMDN  
 Andrew C. H. Chang  
 Gregory Cheek  
 Chien-Shing Chen  
 Daniel C. A. Choo  
 Alfred C. Cottrell  
 Debra D. Craig, FMDN  
 Nagamani Dandamudi  
 Keith R. Doram  
 J. Michael Finley  
 Anthony F. Firek  
 Franz P. Fisher  
 Steven C. Forland  
 Geir P. Frivold  
 Aslam Godil  
 Fouzia Godil  
 Alma A. Gonzaga  
 Ronald Griffin  
 Jocelyn Gunnarsson  
 Mouna E. Haddad-Wilson  
 Steven B. Hardin  
 William H. Hardt, Jr.  
 Donald J. Hillebrand  
 Thomas J. Hoffman  
 Frank D. Howard IV  
 Russell E. Hoxie  
 Enacio G. Hunt  
 Michael B. Ing  
 George M. Isaacs  
 Denise L. Jackson  
 Alan K. Jacobson  
 Mehdi S. Jahromi  
 Karnjit K. Johl  
 Torbjorn I. Jorteg  
 Vikram V. Kamdar  
 Jeffery M. Katz  
 Brent W. Kay



Balram S. Khehra  
 Rajagopal Krishnan  
 Victor K. Lamin  
 Euly M. Langga-Sharifi  
 James P. Larsen  
 Alan C. K. Lau  
 Susie H. Lau  
 Scott W. Lee  
 Jody D. Levy  
 Takkin Lo  
 John D. McCracken  
 James I. McMillan  
 Priya Malik  
 Ramesh K. Manchanda  
 Malwinder K. Multani  
 Bavani Nadeswaran  
 Sami B. Nazzal  
 Axa I. Newball  
 Sherlene Ng  
 Pushpa Nowrangji, PEDS  
 Sudha Pai  
 Seekook Park  
 Gary L. Pauls  
 John A. Rambharose  
 Timothy Richardson  
 Rhodes L. Rigsby  
 Suzanne S. Rizkalla  
 Daniel Robitshek  
 Maher A. Roman  
 Gordon H. Sasaki  
 Cynthia L. Serabyn  
 Rina N. Shah  
 Tamara M. Shankel, PEDS  
 Vasthi V. Silva  
 Lynnetta Skoretz  
 Sami S. Soliman  
 N. Lennard Specht  
 David C. Stanford  
 Liset N. Stoletniy  
 Debra D. Stottlemeyer  
 Michael W. Sue  
 Richard J. Swabb  
 Terri L. Tamase  
 Linda Giles Tan  
 Shirley M. Tan  
 Leah A. Tud Tud-Hans  
 Sammy S. Wong  
 Yasmin A. Yusufaly

**ASSISTANT CLINICAL PROFESSORS**

Monica M. Banerjee  
 Connie J. Beehler  
 Cyril D. Blaine  
 Eugene P. Boling  
 Gary W. Brown  
 Elber S. Camacho  
 Ethelred E. Carter  
 Jeng-Hong Chen  
 Daniel S. Cosgrove  
 Donald L. Culver  
 Vishvanath V. Date  
 Lino J. DeGuzman  
 Thomas C. Denmark

Douglas O. W. Eaton  
 Philip A. Edelman  
 James A. Fallows  
 Marian A. Fedak  
 Mary A. Flowers  
 Gerald S. Friedman  
 Juanito Garlitos  
 Marla G. Giem  
 Alan Gorenberg  
 Margaret A. Griffin  
 Lorán D. Hauck  
 Vickie V. Height  
 Jan M. Herrmann  
 Dennis A. Hilliard  
 Patricia C. Hsia  
 Galen C. L. Huang  
 Catherin M. Kennedy  
 David J. Kestenbaum  
 Sherif F. Khalil  
 A. Hafeez Khan  
 Sadruddin G. Hussain Khoja  
 Daniel I. S. Kim  
 Steven E. Larsen  
 Kam Y. Lau  
 Joseph Lee  
 Carmela M. Leonora  
 Duncan Leung  
 Chandrakant V. Mehta  
 Patrick M. Moloney  
 Ashis Mukherjee  
 Annette T. Nitta  
 David S. Nourok  
 Hai T. Phan  
 Victoria Rains  
 Herman H. Ricketts  
 Cynthia C. Ruiz  
 Alan C. Schwartz  
 Terrence H. C. Shum  
 Ajeet R. Singhvi  
 Michael R. Solinger  
 Khushal A. Stanisai  
 Chao H. Sun  
 Douglas W. Teller  
 Ravi Thiruvengadem  
 Gordon W. Thompson  
 Bhoodev Tiwari  
 Charles R. Tourtellotte  
 Kees VanderHoek  
 Bertrand H. Vipond  
 John A. Ward  
 Gary M. Wernick  
 Carl Wolnisty  
 Andrew L. Wong  
 Francisco M. Wong

**ASSISTANT RESEARCH PROFESSORS**

Weikuan Gu  
 Reinhard Gysin  
 Darko Kantoci  
 Xin Min Li  
 Earl D. Murray  
 Qin, Xue Zhong  
 Schwartz, Elaine B.

**CLINICAL INSTRUCTORS**

J. Robert Evans  
Raed N. Fahmy

**INSTRUCTORS**

Mihran H. Ask, PRVM  
Rebekah Bartos  
Donald M. Blackman  
Tonda D. Bradshaw  
Kenneth D. Doran  
Ronald S. Fernando  
Sylvia K. Fowler  
Eduardo J. Gonzaga  
Nancy J. Heine  
Kevin B. Hill  
Wilson D. Lao  
Jerry T. Martell  
Telahun Zewdie

**DERMATOLOGY DIVISION**

**EMERITUS PROFESSOR**

Theodore M. Cohen

**PROFESSORS**

Nancy J. Anderson  
Abel Torres  
Edwin T. Wright, PATH

**ASSOCIATE CLINICAL PROFESSORS**

Bernard Gottlieb, PATH  
Hubert C. Watkins

**ASSISTANT PROFESSOR**

Barbara N. Halaska  
Jane M. Hirokane  
Shirlene Jay

**ASSISTANT CLINICAL PROFESSORS**

Desmond D. Gibson  
Soon S. Lee  
Wendy E. Roberts  
Fred F. Soeprono, PATH  
Ingrid E. Trenkle  
J. Robert West  
John L. Zdrojewski

**INSTRUCTOR**

David Opai-Tetteh

**COURSES**

**MEDN 599 Medicine Directed Study (arranged)**

**MEDN 701 Medicine Clerkship (720 hours)**

**MEDN 799 Geriatric Medicine (120 hours)**  
Introduces students to the unique needs of older adults. Provides experience in the multidisciplinary, whole-person care of older adults, with emphasis on functional assessment.

**MEDN 821 Senior Subinternship (240 hours)**

**MEDN 822 Senior Intensive Care (120 hours)**

**MEDN 891 Medicine Elective (arranged)**

**MDCJ 501 Introduction to Medicine SM (2)**

Taught by the Department of Medicine and the Faculty of Religion for students in the Early-Decision Program. Designed to help students develop the writing and reading skills essential to perform medical duties, and to help students develop the whole-person-care focus necessary for success as physicians.

**MDCJ 502 Introduction to Medicine II (2)**

Taught by the Departments of Biochemistry, Medicine, Pathology (Division of Human Anatomy), and Surgery; and the Faculty of Religion for students in the Early-Decision Program. Designed to help students develop skills in problem-based learning and standardized patient assessment as well as whole-person care, which are necessary skills for success as a physician.

**MDCJ 521, 522, 523 Physical Diagnosis (8)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (9)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

(1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.

(2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

## NEUROLOGY

DANIEL W. GIANG, Chair

Neurologic disorders are common, and it is essential that students learn to recognize and treat them. The objective of the four-week course is for the student to further God's work of restoring wholeness to people through excellence in neuroscientific education, investigation, and clinical care.

### FACULTY

**DISTINGUISHED PROFESSOR**  
W. Ross Adey, PHSL, MEDN

**PROFESSORS**  
Carmel Armon  
Stephen Ashwal, PEDS, MEDN  
Donald Miller, MEDN  
Donald I. Peterson, PHRM, MEDN  
Gordon W. Peterson, MEDN

**ASSOCIATE PROFESSORS**  
Thomas W. Bohr  
Jeffrey A. Bounds  
Daniel W. Giang  
Boleslaw H. Liwnicz, PATH  
Abraham T. Lu, PATH, MEDN  
Sarah M. Roddy, PEDS

**ASSOCIATE CLINICAL PROFESSOR**  
R. Richard Sloop

**ASSISTANT PROFESSORS**  
Bradley A. Cole  
Rodolfo O. Escutin  
Lori A. Shutter

David M. Swope  
Jon E. Ween

**ASSISTANT CLINICAL PROFESSOR**  
Robert A. Klein

**INSTRUCTORS**  
Perin D. Gomer  
Dorothee Lambert  
Chalmer D. McClure, PEDS  
Izabella Soo

**CLINICAL INSTRUCTOR**  
Sherif A. Dimyan

### COURSES

**NEUR 599 Directed Elective Study (arranged)**

**NEUR 821 Neurology Clerkship (240 hours)**  
Basic neurology lectures, weekly neuroradiology conferences, neurology grand rounds, clinical neurology conference, and biweekly neuropathology conference. Student attendance required. Student participation in the outpatient neurology clinics during neurology rotation.

**NEUR 891 Neurology Elective (arranged)**



# OPHTHALMOLOGY

HOWARD V. GIMBEL, Chair

The Department of Ophthalmology is committed to:

1. Provide an academic environment that will foster an understanding of ophthalmology as a specialty.
2. Provide an education for students and residents that prepares them for service in communities when training has been completed.
3. Develop clinical research.

## FACULTY

### EMERITUS PROFESSORS

Sidney B. Brownsberger  
George K. Kambara

### PROFESSOR

Howard V. Gimbel

### CLINICAL PROFESSORS

James I. McNeill  
Charles M. Stephenson, Sr.

### ASSOCIATE PROFESSORS

James Guzek  
David L. Wilkins  
Ernest S. Zane

### ASSOCIATE CLINICAL PROFESSORS

Paul A. Blacharski  
Clement K. Chan  
James L. Davidian  
Younge Hyun Oh  
Christopher Stephenson  
P. Harold Wallar  
Izak F. Wessels

### ASSISTANT PROFESSORS

Paul Y. Chung  
Jennifer A. Dunbar  
Arthur W. Giebel  
Jeffrey C. Hong  
Michael E. Rauser  
Alan J. Riezman  
Kimber L. Schneider  
Gerald Schultz  
Kris J. Storkersen

## ASSISTANT CLINICAL PROFESSORS

Kimberley D. Ackley  
Christopher L. Blanton  
Loren L. Denler  
Robert M. Duffin  
Christina J. Flaxel  
Eric J. Friedrichsen  
Kenneth Houchin  
Gary G. Huffaker  
Kristin E. Isaacs  
David R. McGrew  
Richard D. Pesavento  
Robert C. Rosenquist, Jr.  
Lance M. Siegel  
Tom Tooma  
Robert R. Wresch  
Steven E. Zane

## INSTRUCTORS

Pamela Y. Bekendam  
Sharon Takayesu

## COURSES

**SURG 821 Surgery Clerkship (participation)**

**OPHM 891 Ophthalmology Elective (arranged)**

# ORTHOPAEDIC SURGERY

CHRISTOPHER M. JOBE, Acting Chair

The Department of Orthopaedic Surgery provides a lecture series to junior and senior medical students. The objectives of the series are to:

1. Introduce the specialty of orthopaedic surgery.
2. Teach physical diagnosis of the musculoskeletal system.
3. Review care of common orthopaedic conditions.
4. Survey orthopaedic subspecialties and orthopaedic surgery.
5. Stimulate students to consider a career in orthopaedic surgery.

## FACULTY

### EMERITUS PROFESSORS

Fred A. Polesky  
Dana M. Street

### PROFESSORS

William P. Bunnell, PEDS  
Christopher M. Jobe  
F. William Wagner, SURG, ANAT  
Virchel E. Wood

### CLINICAL PROFESSORS

Gary K. Frykman  
D. Allan MacKenzie  
Hiromu Shoji  
Edmund B. Weis

### RESEARCH PROFESSORS

David J. Baylink, BCHM, MEDN  
Ian C. Clarke

### ASSOCIATE PROFESSORS

William A. Craig  
G. Allen Gustafson  
Philip H. Reiswig  
James E. Shook  
George J. Wieseeman  
Leisure Yu

### ASSOCIATE CLINICAL PROFESSORS

Joseph C. Hohl  
Claran H. Jesse  
D. Robert Johnson  
Martin Koffman  
Milton K. Mudge  
Walter C. Nash  
Eskild A. Reinhold  
Kenneth R. Roth  
Herman R. Schoene  
G. Carleton Wallace

### ASSISTANT PROFESSORS

Bernarr B. Johnson  
Michael H. Wright

### ASSISTANT RESEARCH PROFESSOR

Qiang G. Dai

### ASSISTANT CLINICAL PROFESSORS

Joel E. Adams  
Charles H. Alexander  
Robert H. Ballard  
William E. Brown  
Kali Chaudhuri  
Clyde L. Davis  
Edmund T. Dombrowski  
Thomas K. Donaldson  
Jan W. Duncan  
Ray L. Foster  
Calvin H. Frazier  
Ronny G. Ghazal  
Barry S. Grames  
Bradley R. Hotchner  
Harris H. Kanel  
Satish K. Lal  
Liu, Paul C. W.  
Kenneth L. Lorenz  
James D. Matiko  
Clifford D. Merkel  
William J. Navigato  
Rama T. Pathi  
John W. Skubic  
John C. Steinman  
Alan W. Wolf  
David L. Wood

### INSTRUCTORS

Karim Abdollahi  
William S. Beal  
Eduardo A. Bestard  
Gurbir Chhabra  
Michael J. Coen  
Navid Ghalambor  
William R. Hale

Robert L. Jaspan  
Michael Miao  
Assad Moheimani  
Wayne T. Pan  
Timothy A. Peppers  
Barry E. Watkins  
James R. Watson

**COURSES**

**SURG 821 Surgery Clerkship (participation)**

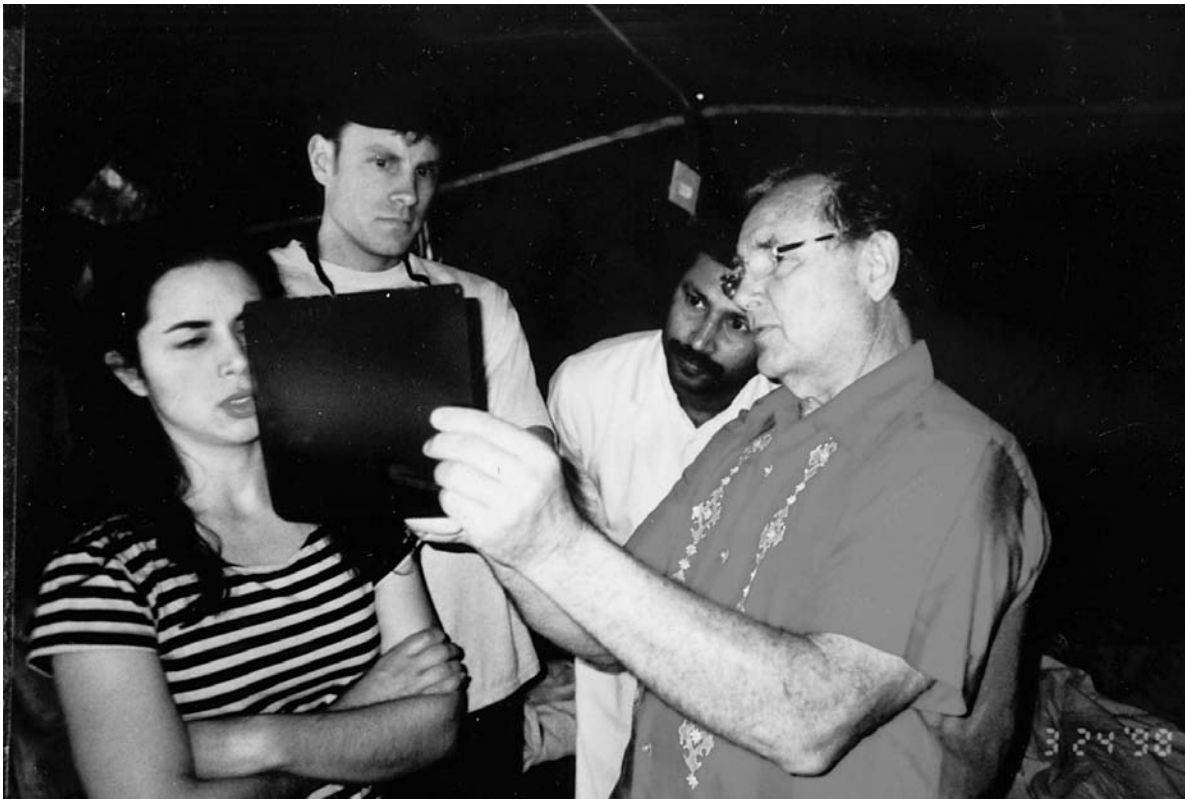
**ORTH 891 Orthopaedic Surgery Elective  
(arranged)**

**RESEARCH INSTRUCTOR**

Paul Williams

**CLINICAL INSTRUCTORS**

David V. Anderson  
Hazel J. Berglund  
Vincent J. Devlin  
Brian S. Doyle  
David G. Erickson  
Timothy P. Gray  
Mary E. Hurley  
Ralph N. Steiger  
Ghassan S. Tooma  
Gurvinder S. Uppal



## PATHOLOGY AND HUMAN ANATOMY

**BRIAN S. BULL, Chair**

### ANATOMY DIVISION

#### HUMAN ANATOMY

PEDRO B. NAVA, JR., Head

### PATHOLOGY DIVISION

#### ANATOMIC PATHOLOGY

DONALD R. CHASE, Head

#### PEDIATRIC PATHOLOGY

CRAIG W. ZUPPAN, Head

#### LABORATORY MEDICINE

JAMES M. PAPPAS, Head

The primary goal of the Department of Pathology and Human Anatomy is to educate capable, compassionate, scientifically minded physicians dedicated to the mission and objectives of Loma Linda University School of Medicine. The courses offered by the department provide a bridge to the clinical sciences, spanning the entire two years of the preclinical curriculum—from foundational principles of gross, microscopic, and developmental anatomy to modern pathophysiologic concepts. Progressive emphasis is placed on cultivating the student's ability to integrate basic knowledge of structure, function, and dysfunction of the human body with analytical skills in solving clinical problems.

The department is strongly committed to:

1. Biomedical research designed to promote creative and critical thinking on the part of all students and faculty.
2. Provide an environment conducive to the pursuit of original studies by those oriented towards investigative medicine.

**FACULTY****ANATOMY DIVISION****EMERITUS PROFESSORS**

Paul C. Engen  
 Daniel A. Mitchell, Jr., SURG  
 Walter H. B. Roberts  
 E. Harold Shryock

**PROFESSORS**

John O. Archambeau, RDMN, PEDS  
 William H. Fletcher, PHSL  
 Raymond Gilbert, PHSL, GYOB  
 Paul J. McMillan  
 Robert L. Schultz

**CLINICAL PROFESSOR**

Jess Hayden, Jr.

**ASSOCIATE PROFESSORS**

William M. Hooker  
 Michael A. Kirby, PEDS  
 Pedro B. Nava  
 Steven M. Yellon, PEDS, PHSL

**ASSISTANT PROFESSORS**

Johannah Corselli, GYOB  
 Bertha C. Escobar-Poni  
 Kerby C. Oberg  
 William Wagner, SURG, ORTH  
 Kenneth R. Wright

**PATHOLOGY DIVISION****EMERITUS PROFESSOR**

Albert E. Hirst, Jr.

**PROFESSORS**

J. Bruce Beckwith, PEDS, UROL  
 Brian S. Bull  
 Jeffrey D. Cao  
 Donald R. Chase  
 Resa L. Chase  
 David L. Felton  
 G. Gordon Hadley  
 Darryl G. Heustis  
 Ralph A. Korpman  
 John E. Lewis, MEDN, MICR  
 Boleslaw H. Liwnicz, NEUR  
 Bo Ying Wat  
 Edwin T. Wright, DERM

**RESEARCH PROFESSORS**

Sandra Nehlsen-Cannarella, SURG, MICR  
 Jerald C. Nelson, MEDN

**CLINICAL PROFESSORS**

Weldon J. Bullock  
 Thomas T. Noguchi

**CLINICAL RESEARCH PROFESSOR**

Lawrence B. Sandberg

**EMERITUS ASSOCIATE PROFESSORS**

Albert F. Brown  
 Gerhardt L. Dybdahl  
 Robert E. Moncrieff  
 Albert Olson  
 Mildred L. Stilson  
 Rodney E. Willard

**ASSOCIATE PROFESSORS**

Arthur J. Hauck  
 Keith D. Hoffmann, SD  
 Berend Houwen  
 Christopher M. Jobe, ORTH  
 Dick H. Koobs  
 Norman H. Peckham  
 George W. Saukel  
 Craig W. Zuppan

**ASSOCIATE RESEARCH PROFESSORS**

Denise Bellinger  
 Lee S. Berk, PRVM  
 Richard W. Hubbard, BCHM  
 Michael A. Kirby, PEDS

**ASSOCIATE CLINICAL PROFESSORS**

Bernard Gottlieb, DERM  
 W. William Hughes III, AH  
 Ewald R. Lonser  
 Abraham T. Lu, NEUR, MEDN  
 Arthur J. Silvergleid

**ASSISTANT PROFESSORS**

M. Rose Akin  
 Kenneth Cantos  
 Wilson K. W. Chick  
 Evelyn B. Choo  
 Kil Un Lee  
 Richelle L. Malott  
 Morrel T. Moorehead  
 Kerby C. Oberg  
 James M. Pappas  
 Mia C. N. Perez  
 Kevin S. Thompson  
 Pamela J. Wat

**ASSISTANT RESEARCH PROFESSORS**

Omar R. Fagoaga  
 Giuseppe Molinaro, MICR  
 Srinivasan ThyagaRajan

**ASSISTANT CLINICAL PROFESSORS**

Neita R. Duazo  
 Joy I. Fridey  
 Fikry F. Hanna  
 Frank Sheridan  
 Fred F. Soeprono, DERM  
 W. Leonard Taylor  
 Ingrid E. Trenkle, DERM  
 Steven J. Trenkle

**ADJUNCT PROFESSOR**

Gary W. Mierau



## COURSES

**ANAT 501, 502 Human Anatomy DN (3, 3)**

Anatomy of the human body. Lecture and dissection course that includes developmental history pertinent to understanding of the adult. Emphasis on structures of the head and neck.

**ANAT 503 Human Histology DN (5)**

Detailed microscopic study of fundamental tissues, cells, organs, and systems of the human body.

**ANAT 504 Oral Histology and Development DN (3)**

Introduction to general embryology, followed by a detailed study of microanatomy of the teeth and adjacent structures.

**ANAT 505 Neuroanatomy DN (3)**

Basic anatomy of the human nervous system. Structure correlated with function as much as possible at macroscopic, microscopic, and ultramicroscopic levels. Correlation with clinical neurology.

**ANAT 517 Gross Anatomy/Embryology SM (9)**

Regional systemic study of the human body, with correlation to radiology and clinical medicine. Survey of human embryonic development. Consideration given to origins of common birth defects.

**ANAT 528 Detailed Dissection of the Head and Neck DN (Surgical) (2)**

Detailed dissection of the head and neck. Demonstration and lecture.

Prerequisite: ANAT 541 or equivalent.

**ANAT 537 Neuroscience GS (8)**

Structure and function of the human nervous system.

**ANAT 541 Gross Anatomy GS (4, 8)**

Anatomy of the head, neck, locomotor system, thorax, abdomen, pelvis, and perineum. Correlated with radiology and applied features.

**ANAT 542 Cell, Tissue, and Organ Biology GS (2, 4)**

Microscopic structure of cells, tissues, and organs of the human body.

**ANAT 544 Human Embryology GS (1)**

The plan of development as it pertains to the human. Consideration of principles. Laboratory work involving the use of both human and comparative materials.

Prerequisite: A course in vertebrate embryology.

**MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (14)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology, the common thread for the course, familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (7)**

Fundamentals of neuroanatomy and neurophysiology integrated in a clinical context with principles of the human nervous system.

**MDCJ 545, 546, 547 Medical Applications of the Basic Sciences SM (3, 2, 2)**

Students solve clinical problems by using their medical knowledge and accessing appropriate learning resources. Independent and small-group activities help students to identify their personal learning issues. A minimum of four hours per week in independent, self-directed learning activities.

## LABORATORY MEDICINE

**PATH 512, 513, 514 Human Pathology: Review by Organ Systems (100 hours) (4, 3, 3)**

Systematic review of diseases affecting each organ system. Etiology, pathogenesis, morphology, pathophysiology, and biologic behavior covered; as well as relevant laboratory medicine techniques. Correlation with concurrent courses in physiology, microbiology, and physical diagnosis.

Prerequisite: MDCJ 531, 532, 533.

Recommended: Concurrent or previous medical microbiology.

**PATH 599 Directed Study (arranged)****PATH 891 Pathology Elective (arranged)****MDCJ 531, 532, 533 Cell Structure and Function (150 hours) (14)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology, the common thread for the course, familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

# PEDIATRICS

**JOHN W. MACE, Chair**

**T**he mission of the Department of Pediatrics is to provide patient services, educational programs, research endeavors, child advocacy, and community service in a manner not only consistent with state-of-the-art science but also with Judeo-Christian values.

## FACULTY

### DISTINGUISHED PROFESSOR

David J. Baylink, MEDN, BCHM, ORTH

### EMERITUS PROFESSORS

Hertha Ehlers  
Theodore H. Goldman  
Eugene L. Petry  
J. Joseph Quilligan, RADS

### PROFESSORS

John O. Archambeau, RDMN, ANAT  
Stephen Ashwal, MEDN, NEUR  
Leonard L. Bailey, SURG  
J. Bruce Beckwith, PATH, UROL  
B. Lyn Behrens  
Burton A. Briggs, ANES, SURG  
William P. Bunnell, ORTH  
Richard E. Chinnock, EMDN  
Wayne K. Jacobsen, ANES  
Lawrence D. Longo, GYOB, PHSL  
John W. Mace  
Linda J. Mason, ANES  
Ronald M. Perkin, EMDN  
Charles W. Slattery, BCHM  
Lionel W. Young, RADS

### RESEARCH PROFESSOR

Thomas A. Linkhart, BCHM

### EMERITUS CLINICAL PROFESSOR

Willard R. Centerwall

### CLINICAL PROFESSORS

Hunter I. Crittenden  
George Fox  
Charles J. Hyman  
John L. Johnson  
John P. Morris  
Gerald Saks

### ASSOCIATE PROFESSORS

Ofelia A. Alvarez  
Nancy J. Anderson, DERM  
D. Jeanne Andrews

Antranik A. Bedros  
Jane Bork  
Chul C. Cha  
Terry W. Chin  
Douglas Deming  
Edward Elmendorf  
Yvonne Fanous  
Elba E. S. Fayard  
Steven R. Gundry, SURG  
Andrew O. Hopper  
Donald L. Janner  
Leela Job  
David S. Knierim, NEUS  
Marquelle J. Klooster  
Michael Kuhn  
Ranae L. Larsen  
Maria Lois-Wenzel  
J. David Moorhead, UROL, SURG  
Neda F. Mulla  
Ricardo L. Peverini  
Ravindra Rao  
Sharon K. Riesen  
Sarah M. Roddy, NEUR  
Shobha Sahney  
Clare M. Sheridan, EMDN  
Lawrence G. Tomasi, NEUR  
Nidia R. Vyhmeister  
Steven M. Yellon, PHSL

### ASSOCIATE RESEARCH PROFESSORS

Michael A. Kirby, PATH  
Giuseppe Molinaro, MICR, PATH

### EMERITUS ASSOCIATE CLINICAL PROFESSORS

Edwin F. Patton  
Clifton P. Rose  
Lawrence S. Siegel

### ASSOCIATE CLINICAL PROFESSORS

Assaad Assaad  
James A. Bartley  
Harbinder S. Brar  
Susan J. Clark  
Wallace Cleaves  
George D. Doroshov  
David Fox

Bruce B. Grill  
 Rauof A. Ibrahim  
 D. Allen MacKenzie, ORTH  
 Constance J. Sandlin  
 Phisit Saphyakhajon  
 Richard P. Tyler  
 Merlin R. Zaske

**ASSISTANT PROFESSORS**

Shamel A. Abd-Allah  
 Marti Baum  
 Paul A. Checchia  
 Drew Cutler  
 Christopher D. Dael  
 Althea P. Daniels  
 Wise M. Fargo  
 Nancy R. Fernando  
 Laura Funkhouser  
 Maria C. Garberoglio  
 Matthew F. Gross  
 Agnes S. Guġan  
 Ernie Guzman  
 Aijaz Hashmi  
 Eba H. Hathout  
 Joya Heart  
 Mary Lam  
 Carol A. Lau, ANES  
 Michelle H. Loh  
 Pushpa Nowrangġ, MEDN  
 John E. Peterson, Jr., SD  
 Rebeca E. Piantini  
 Charles D. Pumphrey  
 Martha E. Rivera  
 George A. Segura  
 Ruchir Sehra  
 Manoj C. Shah  
 Tamara M. Shankel, MEDN  
 James F. Shook, ORTH  
 Catherine A. Tan  
 Diana L. Trupp  
 T. Victoria Van  
 Vasanti Voleti  
 Karen A. Winston  
 George S. Yanni  
 Larry Yin  
 Guy Young

**ASSISTANT CLINICAL PROFESSORS**

Daniel H. Aldana  
 Freddie B. Balġama  
 James H. Belote  
 Dilip R. Bhatt  
 Danielle L. Borut  
 Samuel A. Bruttomesso  
 Hong Bui  
 William M. Clover  
 Vo Minh Dai  
 Mary L. Gandy  
 Herbert A. Giese, Jr.  
 Joseph K. Hindman

Wen-Hsiung L. Huang  
 John L. Johnson  
 Thomas A. Kaleita  
 Julie P. Mann  
 Hilario A. Marilao  
 Frederick J. Martin  
 James Mason  
 Jorge R. Mazlumian  
 Ronald L. Mellinger  
 Robert E. Meyer, Jr.  
 James S. Miller  
 Jonathan J. Mthombeni  
 James L. Munson  
 Madeline N. Ngo  
 Olusola A. Oyemade  
 Ronald G. Pearce  
 Deepak K. Rajpoot  
 Isreal Rubenstein  
 Praful C. Shah  
 Lawrence D. Sharpe  
 Norman U. Sogioka, SURG  
 James D. Swift  
 Pranee Tulyathan  
 Nestor E. Vain  
 Huu Dinh Vo  
 Hansen Wang, SURG  
 Sherri E. Yhip

**INSTRUCTORS**

Borhaan S. Ahmad  
 Janet E. Halverson  
 Olga Kalbermatter  
 Lanny Nizar-Oentojo  
 Jonnel W. Pomeroy  
 Francisco Rincon  
 Stanford K Shu  
 Mohammad S. Siddiqui  
 Daved W. van Stralen

**CLINICAL INSTRUCTOR**

Thomas S. Sherwin, EMDN

**ADJUNCT PROFESSOR**

Sanford Schneider, MEDN, NEUR

**ADJUNCT INSTRUCTOR**

Harvey Heidinger

**COURSES**

**PEDS 599 Pediatrics Directed Study (arranged)**  
**PEDS 701 Pediatrics Clerkship (480 hours)**  
**PEDS 822 Pediatrics Intensive Care (120 hours)**  
**PEDS 891 Pediatrics Elective (arranged)**

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (9)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

- (1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.
- (2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.



# PHYSICAL MEDICINE AND REHABILITATION

MURRAY E. BRANDSTATER, Chair

The Department of Physical Medicine and Rehabilitation was established to develop clinical services in rehabilitation medicine and to offer resources for teaching and research in the field of rehabilitation. These clinical and academic activities cover a wide spectrum of clinical medicine but have as a central basis the notion that rehabilitation is a complex process involving not only multiple disciplines but also consideration of the patient in the broader context of the family and community. The psychosocial-spiritual aspects of rehabilitation complete the whole-person focus, thus providing an opportunity for faculty and students to observe and experience patient care while meeting the goals and objectives of the School of Medicine.

## FACULTY

### PROFESSOR

Murray E. Brandstater

### ASSOCIATE CLINICAL PROFESSOR

Victor Schell

### ASSISTANT PROFESSORS

Moon S. Bae  
Divakara Kedlaya  
Angela Cha-Kim  
Lowell W. Reynolds, ANES  
Scott R. Strum

### ASSISTANT CLINICAL PROFESSORS

Scott E. Brown  
Gerald R. Goodlow  
Yvette A. Holness  
Robertus H. Kounang  
Esther C. Lee  
Jonathan C. Lee  
Felice L. Loverso  
Joseph A. Narloch  
Hanna O. Sanders

### INSTRUCTORS

Kevan Z. Craig  
Jien Sup Kim

### CLINICAL INSTRUCTOR

Karen S. Clippinger

### ADJUNCT ASSISTANT PROFESSOR

Bradley Eli

## COURSES

### PMRH 799 Physical Medicine and Rehabilitation

Program based primarily on the inpatient rehabilitation service but includes exposure to formal didactics and outpatient services.

### PMRH 891 Physical Medicine and Rehabilitation Elective (arranged)

# PHYSIOLOGY AND PHARMACOLOGY

J. MAILEN KOOTSEY, Chair

JOHN LEONORA, Vice-Chair

Upon completion of the physiology course, the student will have an understanding of the basic concepts related to the cardiovascular, respiratory, renal, gastrointestinal, and endocrine systems appropriate to current clinical application. As much as is possible, the integration of functions between the various systems is emphasized. Neurophysiology is presented separately as an integrated course involving neuroanatomy and histology. The student will also be oriented to research needed on many unsolved problems in physiology.

Likewise in pharmacology, students will be able to describe the principal concepts of drug action and safety; recognize and classify the drugs commonly used in the practice of medicine; and describe the major aspects of and concepts relating to their actions, mechanism(s) of action, disposition, major side effects, and uses. Students will also have an introductory understanding of the application of this knowledge to clinical cases.

## FACULTY

### PHYSIOLOGY

#### DISTINGUISHED PROFESSORS

W. Ross Adey, NEUR

Lawrence D. Longo, GYOB, PEDS

#### PROFESSORS

Philip J. Chan, GYOB

Charles A. Ducsay

William H. Fletcher, ANAT

Raymond D. Gilbert, GYOB

David A. Hessinger, PHRM, BCHM

J. Mailin Kootsey

John Leonora, BCHM

William J. Pearce, BCHM

Gordon G. Power, GYOB, MEDN

Robert W. Teel

Steven M. Yellon, PEDS

#### RESEARCH PROFESSOR

Subbaraman Mohan, MEDN, BCHM

#### EMERITUS ASSOCIATE PROFESSOR

Elwood S. McCluskey

#### ASSOCIATE PROFESSORS

Daisy D. DeLeon

Marino A. DeLeon

Ramon R. Gonzalez, Jr.

Raymond G. Hall, Jr.

Charles Kean, SURG

George Maeda

Leonard S. Werner, MEDN

#### ASSISTANT RESEARCH PROFESSORS

Jean M. Tieche

Glyne U. Thorington

**PHARMACOLOGY**

**DISTINGUISHED EMERITUS PROFESSOR**

Ian M. Fraser

**EMERITUS PROFESSORS**

Marvin A. Peters  
Allen Strother  
Bernard E. Tilton

**PROFESSORS**

Ralph E. Cutler, MEDN  
David A. Hessinger, BCHM

**ASSOCIATE PROFESSORS**

John Buchholz  
C. Raymond Cress  
Lubo Zhang

**ASSISTANT PROFESSORS**

Rhonda P. Davis  
Thomas P. Engel, ANES

**ADJUNCT PROFESSOR**

Sue P. Duckles

**COURSES**

**PHYSIOLOGY**

**UNDERGRADUATE**

**PHSL 250 Physiology-Pathophysiology (4)**  
Physiology of the body processes. Designed for the undergraduate nursing program.

**DENTISTRY**

**PHSL 501 Neurophysiology (3)**  
Presentation of basic principles in neurophysiology to enhance understanding of normal and pathophysiological function.

**PHSL 701 Physiological Systems (5)**  
Biochemical and physiological bases of normal function. Lecture and demonstration illustrating physiological principles in animals and man. The Department of Biochemistry and the Department of Physiology and Pharmacology participate.

**PHSL 741 Physiology of Bone (1)**  
Nature of bone mineral and matrix; bone biomechanics and mineralization, bone growth, healing and remodeling, pathological bone resorption; bone calcium homeostasis; dynamics of bone adaptation.

**MEDICINE**

**PHSL 511, 512 Physiology SM (1, 5, 4)**  
Presentation of normal functions of the various systems of the human body, designed to provide a proper understanding of mechanisms of disease, with their concomitant pathophysiology. Lecture, audiovisual demonstrations, computer models, and limited animal studies provide knowledge of the physiological principles.

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (7)**  
Fundamentals of neuroanatomy and neurophysiology integrated with principles of the human nervous system within a clinical context.

**PHSL 891 Physiology Elective (arranged)**

**GRADUATE**

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in physiology. This program is outlined in the BULLETIN of the Graduate School.

- PHSL 501 Neurophysiology DN (3)**
- PHSL 502 Basic Neurophysiology (3)**
- PHSL 525 Current Concepts in Cellular and Molecular Neural-Endocrine Interactions (3)**
- PHSL 533, 534 Physiology I, II (4, 3)**
- PHSL 537 Neuroscience (7)**  
Prerequisite to PHSL 511, 512.
- PHSL 541 Cell and Molecular Biology (4)**
- PHSL 544 Cell and Molecular Neurobiology (3)**

Courses 550-587 are advanced lecture and conference courses exploring the latest concepts in the respective area. Prerequisite or concurrent: PHSL 511, 512 or the equivalent.

- PHSL 550 Properties of the Nervous System (3)**
- PHSL 553 Applied Electronics for the Basic Sciences (4)**
- PHSL 555 Biology of Cancer, Lecture (3)**
- PHSL 556 Biology of Cancer, Laboratory (2)**
- PHSL 558 Physiology of Exercise and Inactivity (3)**
- PHSL 560 Physiology of Bone (3)**
- PHSL 569 Oxygenation of the Fetus and the Newborn (2)**

- HSL 577 Cardiac Physiology (3)
- PHSL 578 Vascular Physiology (3)
- PHSL 584 Readings in Neurophysiology (2)
- PHSL 585 Endocrinology (3)
- PHSL 587 Physiology of Reproduction (2)
- PHSL 604 Perinatal Biology Graduate Seminar (1)
- PHSL 605 Integrative Biology Graduate Seminar (1)
- PHSL 694 Special Problems in Physiology (1-4)
- PHSL 697 Research (arranged)
- PHSL 698 Thesis (arranged)
- PHSL 699 Dissertation (arranged)
- CMBL 503 The Differentiated Cell (10)

**PHARMACOLOGY**

UNDERGRADUATE

**PHRM 411 Pharmacology DH (2)**  
 Uses, actions, and potential toxic effects of medications most frequently administered to or used by dental patients.

DENTISTRY

**PHRM 501 Pharmacology and Therapeutics SD (4)**  
 Principles of drug action. Systematic consideration of the pharmacology, clinical applications, and toxicities of the major drugs used in dentistry. Computerized demonstrations illustrating the effects of drugs.

**PHRM 503 Clinical Pharmacology in Dentistry (2)**  
 Use of medications in the treatment of dentally related diseases, and their potential interaction with total patient care.

MEDICINE

**PHRM 511, 512 General and Systematic Pharmacology SM (86 hours) (5, 3)**  
 Principles of drug action, drug receptors, absorption and fate of drugs, drug toxicity, and drug development. Systematic consideration of the pharmacology and of the therapeutic value of the drugs used in medicine. Clinical case conferences, demonstrations, simulations, and laboratory exercises illustrating the uses and effects of drugs in man or animals.

**PHRM 891 Pharmacology Elective (arranged)**

GRADUATE

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in pharmacology. This program is outlined in the BULLETIN of the Graduate School.

- PHRM 534 Topics in Pharmacology for Dentistry (2)**
- PHRM 535 Clinical Pharmacology (3)**
- PHRM 544 Topics in Advanced Pharmacology (3)**
- PHRM 545 Laboratory in Advanced Pharmacology (1-2)**
- PHRM 554 Neuropharmacology (4)**
- PHRM 555 Laboratory in Neuropharmacology (1)**
- PHRM 564 Cardiovascular and Renal Pharmacology (3)**
- PHRM 565 Laboratory in Cardiovascular and Renal Pharmacology (1)**
- PHRM 574 Chemotherapy (3)**
- PHRM 575 Laboratory in Chemotherapy (1)**
- PHRM 584 Drug Metabolism and Biochemical Pharmacology (3)**
- PHRM 585 Laboratory in Drug Metabolism and Biochemical Pharmacology (1)**
- PHRM 586 Toxicology (3)**
- PHRM 605 Integrative Biology, Graduate Seminar (1)**
- PHRM 684 Special Problems in Pharmacology (2-6)**
- PHRM 697 Research (arranged)**
- PHRM 698 Thesis (arranged)**
- PHRM 699 Dissertation (arranged)**





## PSYCHIATRY

DONALD L. ANDERSON, Chair

WILLIAM H. MCGHEE, Vice Chair

The Department of Psychiatry provides educational programs that include clinical training and research for medical students, psychiatry residents, and psychiatry fellows.

During the first and second years, psychiatry is taught as an interdisciplinary course that consists of lectures and demonstrations covering a broad range of human behavioral determinants, including the biology, psychology, sociology, and psychopathology of behavior. The wholistic concept of behavior, including its spiritual components, is also stressed.

During the third year the student divides six weeks between at least two psychiatry services: inpatient psychiatric ward, inpatient consultation-liaison, outpatient consultation, triage services, and/or possibly others. These rotations are done at various affiliated hospitals.

In the fourth year, if a student chooses to do an elective, s/he is given the opportunity to choose from a variety of options, including but not limited to subspecialties.

### FACULTY

#### PROFESSORS

Benjamin Kovitz  
William H. McGhee

#### EMERITUS CLINICAL PROFESSOR

Jack W. Provonsha, MEDN

#### CLINICAL PROFESSORS

Louis P. Bozzetti, Jr.  
William H. Brunie  
Clarence Carnahan, Jr.  
George T. Harding IV  
Durand F. Jacobs  
August Kasper  
David H. Whitbread

#### ASSOCIATE PROFESSORS

Julie M. Albert  
Donald L. Anderson  
Wm. G. Britt III  
George W. Christison  
Monika Gierz  
Mark G. Haviland  
Jerry D. Hoyle  
James P. MacMurray  
William G. Murdoch

William G. Roth  
Diana Simon  
Janet L. Sonne

#### ASSOCIATE CLINICAL PROFESSORS

Michael A. Cummings  
Harvey W. Oshrin  
John P. Riesenman

#### ASSISTANT PROFESSORS

Karole S. Avila  
Venkatesh G. Bhat  
Kedarnath Challakere  
Caron S. I. Christison  
Richard T. Cranston  
James F. Dyer, Jr.  
Carlos R. Fayard  
Cameron J. Johnson  
Henry L. Lamberton  
Leigh A. Lindsey  
Regina G. Liwnicz  
James S. Mauer  
Anthony S. Shin

## ASSISTANT CLINICAL PROFESSORS

Nenita Belen  
 Andrew C. Blaine  
 Antonius D. Brandon, GS  
 Kari M. Enge  
 Rick L. Jenkins  
 Kevin M. Kinback  
 Patricia M. Kirkish  
 George Kopiloff  
 Donald J. Kurth  
 Michael B. Maskin  
 Kenneth Miller  
 Faye D. Owen  
 Bipin L. Patel  
 Michael D. Schultz  
 Gregg A. Sentenn  
 William R. Simpson  
 Daniel Skenderian  
 John C. Stockdale  
 John T. Thiel  
 Sul R. O. Thorward  
 Thais Thrasher

## INSTRUCTORS

Winifred J. Klop  
 Melvin L. Sajid  
 David E. Schultz  
 E. Ray Verde  
 April Wursten

## CLINICAL INSTRUCTORS

Lorna S. Carlin  
 George J. Proctor  
 Bonnie S. Quinton  
 Patricia J. D. Roth

## COURSES

**PSYT 511 You and Your Patient; PSYT 512, 513 Interviewing a Family System (56 hours) (5)**  
 Interdisciplinary three-part course consisting of lectures and demonstrations covering a broad range of human behavioral determinants, including the biology, psychology, sociology, and psychopathology of behavior. Stresses the holistic concept of behavior.

**PSYT 514, 515, 516 Psychopathology (52 hours) (5)**

**PSYT 599 Directed Elective Study (240 hours)**

**PSYT 701 Psychiatry Clerkship (360 hours)**

**PSYT 891 Psychiatry Elective (arranged)**  
 Opportunity for intensive learning experience in either a research area or a clinical area of the student's choice.



## PUBLIC HEALTH AND PREVENTIVE MEDICINE

RICHARD H. HART, Chair

The School of Medicine's Department of Public Health and Preventive Medicine utilizes the faculty of the School of Public Health to carry out its functions. These responsibilities include the teaching of medical students and preventive medicine residents, conducting research in appropriate areas, and providing a wide variety of clinical services. The School of Public Health's Center for Health Research, Center for Health Promotion, and Center for Health and Development all provide valuable services for the School of Medicine. The Preventive Medicine Faculty Practice Group primarily functions out of the Center for Health Promotion, selected university health services, and the Social Action Community (SAC) Health System clinics.

### FACULTY

#### PROFESSORS

David Abbey  
 Lisa M. Beardsley  
 Gary E. Fraser, MEDN  
 Richard H. Hart  
 Joyce W. Hopp  
 William T. Jarvis  
 Patricia K. Johnston  
 Synnove M. F. Knutsen  
 Jerry W. Lee  
 Kristian D. Lindsted  
 Susanne B. Montgomery  
 Joan Sabate  
 C. Torben Thomsen

#### CLINICAL PROFESSOR

Nabil Y. Razzouk

#### ASSOCIATE PROFESSORS

Barbara A. Frye Anderson  
 S. Eric Anderson  
 Glen G. Blix  
 David T. Dyjack  
 Linda H. Ferry, FMDN  
 Albin H. Grohar  
 Ella H. Haddad  
 Helen P. Hopp-Marshak  
 Jayakaran S. Job  
 George E. Johnston  
 Raymond Knutsen  
 Jenifer J. Mason  
 Naomi N. Modeste  
 John W. Morgan  
 Christine M. Neish  
 Donald G. Pursley  
 Gail T. Rice

#### ASSOCIATE CLINICAL PROFESSORS

Beverly J. Bradley  
 Ronald P. Hattis  
 Eric Ngo  
 Thomas J. Prendergast  
 Anthony B. Radcliffe

#### ASSISTANT PROFESSORS

Jane E. Adams  
 Mihran N. Ask, MEDN  
 W. Lawrence Beeson  
 Bonnie I. Chi-Lum  
 Cyril G. Connelly  
 Zaida R. Cordero-MacIntyre  
 T. Allan Darnell  
 Ann L. Dew  
 Barbara F. Dickinson  
 Angela B. Dyjack  
 Elaine K. Fleming  
 Laura S. Funkhouser  
 Donn P. Gaede  
 H. Irene Grohar  
 Donna R. Gurule  
 Bryan L. Haddock  
 Kenneth W. Hart  
 Rosa P. Herring  
 Gordon E. Hewes  
 Georgia E. Hodgkin  
 Troy Holmes  
 Bessie L. Hwang  
 Susan G. Irish  
 Michael H. Jackson  
 Holly A. Jason  
 Suzanne Karefa-Johnson  
 Tommy F. Kofoed  
 Jeffrey C. Leeper  
 Karl McLeary  
 Gail M. Ormsby  
 Ralph W. Perrin  
 Warren R. Peters

Floyd E. Petersen  
 John A. Pierce  
 Hilton R. Raethel  
 Sujatha Rajaram  
 Emmanuel M. Rudatsikire  
 Thomas H. Scoggins  
 Pramil N. Singh  
 Samuel Soret  
 Teri S. Tamayose  
 Gregory B. Williams  
 David G. Wren  
 Pearl G. Zimmerman

**ASSISTANT CLINICAL PROFESSORS**

Ardis S. Beckner  
 Lynna S. Belin  
 Frederick M. Bischoff  
 Robert D. Blair  
 Arlene F. Braham  
 Richard Bruno  
 Jann Cady-Marks  
 David T. Duran  
 Brent A. Fisher  
 P. Mona Khanna  
 Linda L. Levisen  
 Ernesto P. S. Medina  
 Susan E. Reische  
 Gunter Reiss  
 Douglas C. Richards  
 Inherla H. Rivera  
 Charles S. Salemi  
 Richard A. Sanchez  
 Bruce E. Smith  
 Larry L. Thomas

**ASSISTANT RESEARCH PROFESSORS**

Lee S. Berk, PATH

**INSTRUCTORS**

J. C. Belliard  
 George A. Cancel  
 Danielle L. Wright

**CLINICAL INSTRUCTORS**

Carol J. F. Abidin  
 Marilyn S. Kraft  
 Diane T. Lamb  
 Bryan R. Luna  
 Samar S. McGregor

**ADJUNCT PROFESSORS**

James W. Blankenship  
 P. William Dysinger  
 John A. Scharffenberg

**ADJUNCT RESEARCH PROFESSOR**

Jan W. Kuzma

**ADJUNCT ASSOCIATE PROFESSORS**

Gilbert M. Burnham  
 Ronald D. Lossett  
 George R. Pettersen

Lester N. Wright

**ADJUNCT ASSISTANT PROFESSORS**

Terrence L. Butler  
 Edward J. Gallagher  
 Gary H. Harding

**COURSES****PRVM 521, 522 Information Sciences and Population-Based Medicine (3, 3)**

Introduction to biostatistics, epidemiology, and nutrition issues. Discussion of techniques used in analyzing research and journal articles.

**PRVM 891 Preventive Medicine Elective (arranged)****MDCJ 545, 546, 547 Medical Applications of the Basic Sciences (3, 2, 2)**

Students solve clinical problems by using their medical knowledge and accessing appropriate learning resources. Independent and small-group activities help students to identify their personal learning issues. A minimum of four hours per week in independent, self-directed learning activities.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

**COMPLEMENTARY DEGREES THROUGH SCHOOL OF PUBLIC HEALTH**

Courses are offered in fulfillment of requirements for the Master of Public Health and Doctor of Public Health degrees. These programs are outlined in the BULLETIN of the School of Public Health.

## RADIATION MEDICINE

JAMES M. SLATER, Chair

The purpose of the Department of Radiation Medicine is to provide superior patient services, education, and research using methods supportive of the Loma Linda University School of Medicine.

### FACULTY

#### EMERITUS PROFESSOR

Ivan R. Neilsen

#### PROFESSORS

John O. Archambeau, PEDS, ANAT  
Alain L. Fymat, RADS  
Daila S. Gridley, MICR, BCHM  
Daniel W. Miller  
James M. Slater  
Jerry D. Slater  
Stanislav Vatnitsky

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Fang Jen Lin

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Baldev R. Patyal  
William Preston

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Eugen B. Hug  
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Michael Moyers  
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W. James Nethery  
Carl J. Rossi, Jr.  
James B. Slater, RADS  
Waylene W. Swensen  
Leslie T. Yonemoto

#### ASSISTANT CLINICAL PROFESSORS

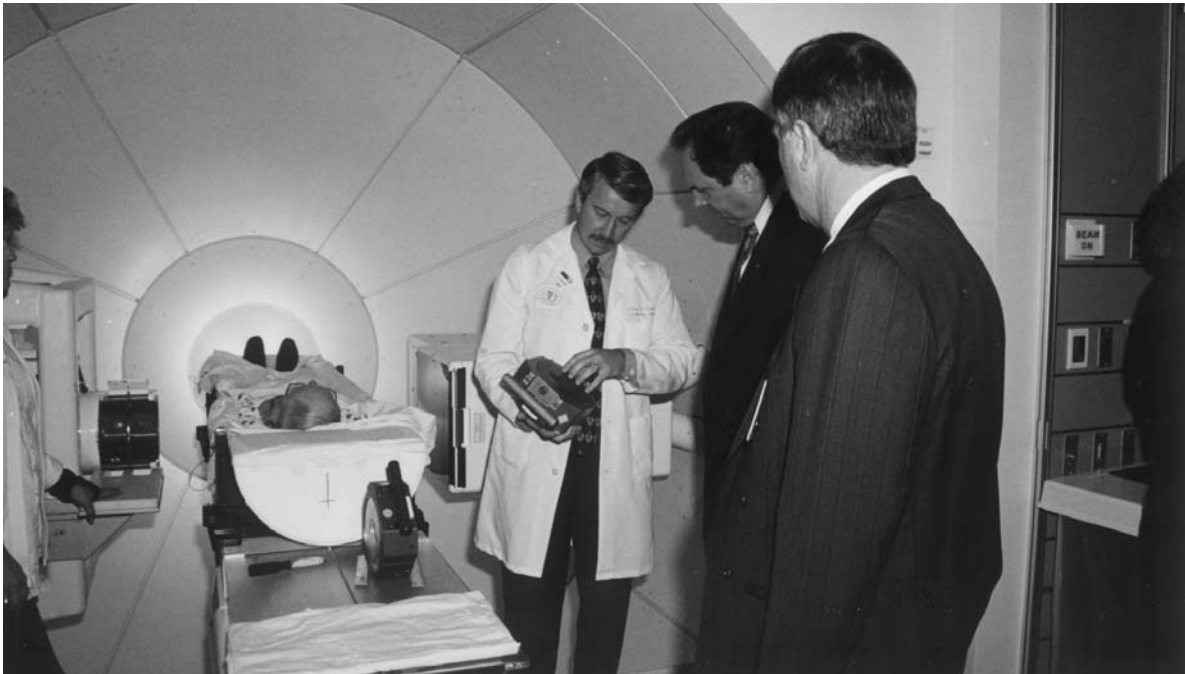
Christopher Gilman  
David W. Mantik  
Ernest Ngo  
Reinhard W. Schulte

#### ADJUNCT RESEARCH PROFESSOR

Eleanor A. Blakely

### COURSES

RDMN 891 Radiation Medicine Elective  
(arranged)



# RADIOLOGY

DAVID B. HINSHAW, JR., Chair

## DIVISIONS

### DIAGNOSTIC RADIOLOGY

GREGORY E. WATKINS, Head

#### COMMUNITY RADIOLOGY

RICHARD D. DUNBAR, Head

#### COMPUTED BODY TOMOGRAPHY

PHIROZE BILLIMORIA, Head

#### OUTPATIENT DIAGNOSTIC RADIOLOGY (FMO)

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### NUCLEAR MEDICINE

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### PEDIATRIC RADIOLOGY

LIONEL W. YOUNG, Head

The purposes of the Department of Radiology are to provide:

1. Excellent patient services through imaging studies, special diagnostic procedures, and interventional procedures.
2. Educational programs that include research and clinical training for technologists, dosimetrists, physicists, medical students, postdoctoral fellows, radiology residents, and fellows.
3. Research support through laboratory facilities and clinical facilities.

## FACULTY

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Walter L. Stilson

### PROFESSORS

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 Moussa Raiszadeh  
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 Michael Neglio  
 Dinesh Patel  
 Hong Ro  
 Garry D. Roghair  
 Joseph S. Unis  
 James Wolfsen  
 Alix Vincent

## COURSES

**RADS 511 Radiation Sciences (participation)**

**RADS 891 Radiology Elective (arranged)**

**MDCJ 701 Orientation to Clinical Medicine  
 (240 hours)**

Builds on the second-year course MDCJ 525, 526. Diagnosis to provide the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

# SURGERY

LEONARD L. BAILEY, Chair

## DIVISIONS

### CARDIOTHORACIC

STEVEN R. GUNDRY, Head

### GENERAL

CLIFTON D. REEVES, Head

### HEAD AND NECK (Otolaryngology)

GEORGE D. CHONKICH, Head

### NEURO-

AUSTIN R. T. COLOHAN, Head

### ORAL

KEITH HOFFMAN, Head

### PEDIATRIC

DONALD C. MOORES, Interim Head

### PLASTIC AND RECONSTRUCTIVE

ROBERT A. HARDESTY, Head

### UROLOGY

H. ROGER HADLEY, Head

### VASCULAR

J. DAVID KILLEEN, Head

**T**he Department of Surgery is in harmony with the stated purposes and philosophy of the School of Medicine, Loma Linda University.

The purposes of the Department of Surgery are to:

1. Provide the highest standard of surgical patient care.
2. Maintain educational programs in the surgical disciplines for medical students, residents, and fellows.
3. Provide facilities for laboratory and clinical research in the areas of surgical interest.



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P. Richard Carter  
Steven R. Gundry, PEDS

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Changwoo Ahn

ASSOCIATE PROFESSOR  
Anees J. Razzouk

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Nan Wang

ASSISTANT CLINICAL PROFESSORS  
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Charles Kean, PHSL, SD  
J. David Moorhead, UROL  
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James L. Webster

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M. Ruth McLarty  
Okechukwu N. Ojogho  
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Jonathan C. Salo  
Arnold D. Tabuenca  
David L. Vannix  
William Wagner, ANAT, ORTH

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 Ira Bailie  
 Linbrook Barker  
 Lawrence Braslow  
 Fekede Gemechu  
 Lawrence A. Harms  
 Lawrence E. Heiskell  
 Faisal A. Khan  
 Simon Keushkerian  
 Mark L. Miller  
 Lester L. Mohr  
 Robert Pereyra  
 John E. Prichard  
 Harry C. Prout  
 Raymond G. Richardson  
 Marc D. Rudich  
 James D. Simpson  
 Matthew S. Tan  
 Edward H. Umgelter  
 Robert S. Vannix  
 Joseph J. Verska  
 Hansen Wang  
 M. Charles Warren  
 David B. Welsh

**INSTRUCTORS**

Sherif G. S. Emil  
 Virginia S. S. Huang

**ADJUNCT PROFESSOR**

Carlos Duran

**COURSES****SURG 599 Directed Elective Study (240)**

**SURG 701 Surgery Clerkship (720 hours)**  
 Includes one week on each service: anesthesiology, emergency medicine, neurosurgery, otolaryngology, ophthalmology, orthopaedic surgery, plastic surgery, and urology; and one month of general surgery.

**SURG 821 Surgery Clerkship (240 hours)**

Includes one-month service on general surgery.

**SURG 822 Surgery ICU (120 hours)**

Includes two-week service on a surgical intensive-care unit.

**SURG 891 Surgery Elective (arranged)**

May include pediatric surgery, vascular surgery, trauma surgery, general surgery, cardiothoracic surgery, plastic surgery, neurosurgery, otolaryngology, surgical intensive care, and urology.

**HEAD AND NECK (Otolaryngology)****EMERITUS PROFESSOR**

Leland R. House

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 George H. Petti, Jr.

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 Jack L. Pulec

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 Robert P. Rowe  
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 Richard C. Rajaratnam

**INSTRUCTORS**

James D. Swift  
 David G. McGann

**CLINICAL INSTRUCTOR**

Allen L. Hwang

**COURSES****SURG 821 Surgery Clerkship (participation)****OTOL 891 Otolaryngology Elective (arranged)**

## NEUROSURGERY

### PROFESSORS

Austin R. T. Colohan  
Lloyd A. Dayes  
Wolff M. Kirsch

### EMERITUS PROFESSOR

Shokei Yamada

### CLINICAL PROFESSOR

Robert W. Rand

### RESEARCH PROFESSOR

Findlay E. Russell

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David S. Knierim, PEDS

### ASSOCIATE CLINICAL PROFESSOR

Robert P. Iacono

### ASSOCIATE RESEARCH PROFESSOR

Yong Hua Zhu

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Walter D. Johnson  
Daniel Won

### ASSISTANT CLINICAL PROFESSORS

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Brian V. Curtis  
Joseph G. Hubbard  
Marvin A. Korbin  
Rosalinda M. Menoni  
Frederick W. Pitts  
Stanley A. Rouhe

### ADJUNCT PROFESSOR

Robert Marohn

### ADJUNCT ASSOCIATE PROFESSOR

Barry F. Pearce

## COURSES

**SURG 821 Surgery Clerkship (participation)**

**NEUS 891 Neurosurgery Elective (arranged)**

## ORAL

### PROFESSOR

Philip J. Boyne

### ASSOCIATE PROFESSOR

Keith Hoffman

## PEDIATRIC

### ASSOCIATE PROFESSOR

H. Gibb Andrews, PEDS  
Mark W. Fullerton

### ASSISTANT PROFESSOR

Gerald Gollin  
Donald C. Moores

## PLASTIC AND RECONSTRUCTIVE

### PROFESSORS

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Robert A. Hardesty

### ASSOCIATE PROFESSORS

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Frank R. Rogers  
Thomas J. Zirkle, EMDN

### ASSISTANT PROFESSORS

Ben J. Childers  
Brett E. Lehocky  
Norman Y. Sogioka, PEDS

### ASSISTANT CLINICAL PROFESSORS

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Wil Alexander, FR, FMDN  
Dennis K. Anderson  
Jon Bishop  
Norberto E. Collins  
Steven C. Herber  
Robert Kachenmeister  
Sharon L. Kalina  
Daniel B. Kim  
Kaiming Li  
Daniel C. Mills  
Malcolm D. Paul  
Allan W. Perry  
Charlotte Reisch  
John B. Slayback

### CLINICAL INSTRUCTOR

Daniel B. Kim

### INSTRUCTORS

Christopher L. Johnson  
Anil P. Punjabi

**UROLOGY**

**PROFESSORS**

J. Bruce Beckwith, PATH, PEDS  
 Edward M. Blight  
 H. Roger Hadley, SURG  
 Steven C. Stewart

**EMERITUS CLINICAL PROFESSOR**

A. Estin Comarr

**EMERITUS ASSOCIATE PROFESSOR**

Ben D. Massey

**ASSOCIATE PROFESSORS**

Marc A. Beagler  
 Howard Landa  
 Paul Lui  
 J. David Moorhead, SURG, PEDS  
 Herbert C. Ruckle

**ASSOCIATE CLINICAL PROFESSOR**

Peggy J. Fritzsche, RADS

**ASSISTANT CLINICAL PROFESSORS**

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 Victor C. Ching  
 Joseph G. Hubbard  
 Edward C. Jacobs  
 Darrell W. Lang  
 Sze C. Lee  
 Edward S. Loh  
 Kevin P. McLaughlin  
 Winston H. Richards  
 Philbin R. R. Tackoor  
 Robert R. Torrey, Jr.  
 Richard J. Wilson

**INSTRUCTORS**

Duncan D. Harris  
 Arnold I. Shatz

**COURSES**

**SURG 821 Surgery Clerkship (participation)**

**UROL 891 Urology Elective (arranged)**

**VASCULAR**

**EMERITUS PROFESSOR**

Louis L. Smith

**PROFESSORS**

John J. Bergan  
 J. David Killeen

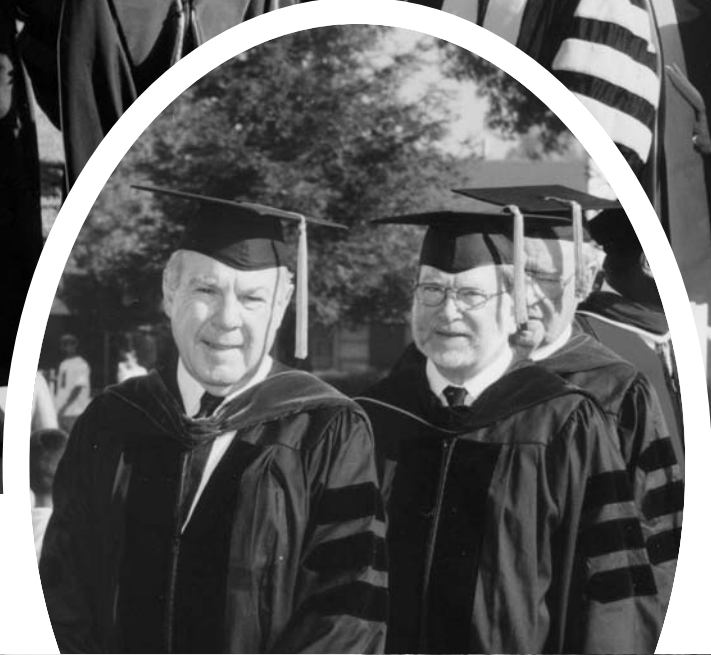
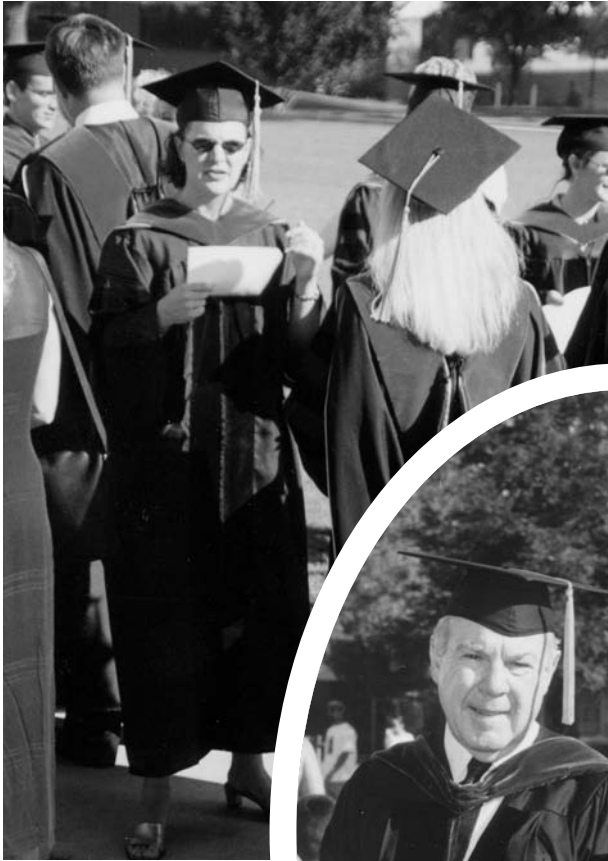
**ASSOCIATE PROFESSORS**

Jeffrey L. Ballard  
 James L. Webster

**ASSISTANT CLINICAL PROFESSORS**

Edward F. Levine  
 Lester L. Mohr  
 James H. Mullen  
 Robert Pereyra





# IV

## THE FACULTY OF RELIGION

Mission Statement

Courses

# Faculty of Religion

## MISSION STATEMENT

The Faculty of Religion is committed to the following four tasks, as informed by the teachings and practice of the Seventh-day Adventist heritage and mission:

1. To promote Christian wholeness for faculty and students in their personal and professional lives and witness.
2. To provide a religion curriculum with the following emphases:
  - Foundational studies (biblical, theological, mission, and historical).
  - Ethical studies (personal, professional, and social).
  - Relational studies (applied theology, clinical ministry, and psychology of religion).
3. To foster and support research in the foundational, ethical, and relational disciplines.
4. To serve the University, the church, and the larger world community by personal involvement in fostering deeper spirituality, theological integrity, and social justice.

## COURSES

### FOUNDATIONAL STUDIES

#### THEOLOGICAL STUDIES

**RELF 707 Medicine, Humanity, and God (2)**  
 Role of the practitioner of medicine as a co-worker with God in the healing of humankind.

**RELF 716 God and Human Suffering (2)**  
 Suffering and evil in relation to the creative and redemptive purposes of God for this world.

#### ETHICAL STUDIES

**RELE 704 Medicine and Ethics (2)**  
 Introductory study of Christian medical ethics, emphasizing personal integrity of the physician, procedures of moral decision making, and ethical problems facing contemporary medicine, such as abortion and euthanasia.

**RELE 714 Advanced Medical Ethics (2)**  
 Advanced study of issues and cases in contemporary medical ethics.

### RELATIONAL STUDIES

#### APPLIED THEOLOGY

**RELR 725 Wholeness for Physicians (2)**  
 Knowledge, values, attitudes, and skills contributing to the physician's goal of personal wholeness.

#### CLINICAL MINISTRY

**RELR 701 Orientation to Religion and Medicine (2)**  
 Examination of the relationship between Scripture and the practice of medicine.

**RELR 775 Art of Integrative Care (2)**  
 Principles, concepts, and practices that affect the ministry of health care and the Christian witness in the clinical setting.



# V

## THE DIRECTORY

Officers of the Board of Trustees

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School Administration

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School Alumni Association

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To Communicate with LLU Personnel

by Telephone, FAX, Web Site, Mail, and Email



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**Clinical Education**

Resa Chase, M.D., Assistant to the Associate Dean

George M. Isaacs, M.D., Assistant to the Associate Dean (VAH Programs)

**Combined-Degrees Programs:****M.S.T.P. and Conjoint Degrees**

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**Graduate Medical Education**

Daniel W. Giang, M.D., Associate Dean

**Continuing Medical Education**

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**Jerry L. Pettis Memorial Veterans****Administration Hospital**

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**Los Angeles Campus**

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P. Ben Nava  
Frank R. Rogers  
Tamara Shankel  
Randall M. Schell  
Barry L. Taylor  
Student representatives

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Henry L. Lamberton  
Abel Torres

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Loretta P. Miyasato  
R. Bruce Wilcox

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Bradley A. Cole  
C. Raymond Cress  
Ramon R. Gonzalez, Jr.  
Nancy J. Heine  
Benjamin H. Lau  
George M. Lessard  
John E. Lewis  
P. Ben Nava  
Floyd E. Petersen  
Robert W. Teel  
Robert L. Schultz  
R. Bruce Wilcox  
Randall L. Roberts  
Anthony J. Zuccarelli

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Assistant deans

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 Bradley A. Cole  
 Wilbert Gonzales  
 Nancy J. Heine  
 Barbara L. Orr  
 Frank R. Rogers  
 Elmar P. Sakala  
 Tamara M. Shankel  
 Raymond D. Wong  
 Larry D. Yin  
 Student representative

INVITEES

Associate deans  
 Assistant deans

**GRADUATE MEDICAL EDUCATION**

Daniel W. Giang, Chair  
 John L. Byrne  
 Daniel Castro  
 Richard E. Chinnock  
 Caron S. Christison  
 Dennis deLeon  
 Steven M. Green  
 Terence D. Lewis  
 Lawrence K. Loo  
 Arnold D. Tabuenca  
 Robert J. Wagner  
 Nancy Wheeler  
 Lionel W. Young  
 Thomas J. Zirkle  
 House staff representatives

**CONTINUING MEDICAL EDUCATION**

Thomas J. Zirkle, Chair  
 M. Rose Akin  
 Daniel J. Cole  
 Richard S. Kim  
 James P. Larsen  
 Lilia N. Loredó  
 William H. McGhee  
 Ronald Perkin  
 Tamara L. Thomas  
 Leonard S. Werner  
 Patti Wright

**FACULTY AFFAIRS**

**Basic Science Faculty Council**

\_\_\_\_\_, Chair  
 Department chairs  
 Elected representatives  
 Invitees: Assistant and associate deans

**#Clinical Science Faculty Council**

\_\_\_\_\_, Chair  
 Elected representatives  
 Invitees: Assistant and associate deans

**Faculty Promotions**

Murray E. Brandstater, Chair  
 Carmel Armon ('00)  
 David L. Felten ('02)  
 Daniel W. Giang ('00)  
 James D. Kettering ('02)  
 Michael A. Kirby ('99)  
 Terence D. Lewis ('00)  
 Shobha Sahney ('02)  
 Herminia S. Salvador ('02)  
 Robert W. Teel ('02)

#Clinical department chairs are ex officio members.

**THE FACULTY INDEX**

In the alphabetical listing that follows, the letters at the right of the name indicate the SM department or division and/or other School in which the faculty member is listed.

**CODES**

ADMN	Administration
ANAT	Anatomy
ANES	Anesthesiology
BCHM	Biochemistry
DERM	Dermatology
EMDN	Emergency Medicine
FMDN	Family Medicine
GYOB	Gynecology and Obstetrics
MEDN	Medicine
MICR	Microbiology
NEUR	Neurology
NEUS	Neurosurgery
OPHM	Ophthalmology
ORTH	Orthopaedic Surgery
OTOL	Otolaryngology
PATH	Pathology
PEDS	Pediatrics
PHRM	Pharmacology
PMRH	Physical Medicine and Rehabilitation
PHSL	Physiology
PRVM	Public Health and Preventive Medicine
PSYT	Psychiatry
RADS	Radiology
RDMN	Radiation Medicine
SURG	Surgery
UROL	Urology
AH	School of Allied Health Professions
GS	Graduate School
PH	School of Public Health
SD	School of Dentistry

#department chair, cochair

\*leave of absence

**EMERITUS FACULTY**

Baumgartner, Conrad J.	SURG
Branson, Bruce W.	SURG
Brown, Albert F.	PATH
Brownsberger, Sidney B.	OPHM
Bullas, Leonard R.	MICR
Centerwall, Williard R.	PEDS
Cohen, Theodore M.	DERM

Comarr, A. Estin	UROL
Cover, William L.	MEDN
Crane, Milton G.	MEDN
Crawford, Raymond B.	MEDN
Dybdahl, Gerhardt L.	PATH
Eckmann, Bertram H.	MEDN
Ehlers, Hertha	PEDS
Engen, Paul C.	ANAT
Fields, Irving A.	SURG
Fraser, Ian M.	PHRM
Goldman, Theodore H.	PEDS
Graf, Walter S.	MEDN
Grames, George M.	MEDN
Hinshaw, David B., Sr.	SURG
Hirst, Albert E. Jr.	PATH
House, Leland R.	OTOL
John, Donald L.	MEDN
Johns, Varner J.	MEDN
Kambara, George K.	OPHM
Leff, Irving L.	MEDN
Lobo, Denis F.	ANES
Longerbeam, Jerrold K.	SURG
Massey, Ben D.	UROL
McCluskey, Elwood S.	PHSL
Miller, David	SURG
Mitchell, Daniel A., Jr.	ANAT, SURG
Moncrieff, Robert E.	PATH
Neilsen, Ivan R.	RDMN
Olson, Albert L.	PATH
Perzik, Samuel L.	SURG
Peters, Marvin A.	PHRM
Peterson, John E., Sr.	MEDN
Petry, Eugene L.	PEDS
Polesky, Fred A.	ORTH
Quick, E. Danford	MEDN
Quilligan, J. Joseph	RADS
Rendell-Baker, Leslie	ANES
Roberts, Walter H. B.	ANAT
Rogers, Frank A.	SURG

Rose, Clifton P.	PEDS	Anderson, David V.	ORTH
Rosenquist, Robert C.	MEDN	Anderson, Dennis K.	SURG
Ryckman, Raymond E.	MICR	Anderson, Donald L.	#PSYT
Shankel, Stewart W.	MEDN	Anderson, Donald Lynn	ANES
Shryock, E. Harold	ANAT	Anderson, Nancy J.	DERM, PEDS
Shure, Norman M.	MEDN	Anderson, S. Eric	PRVM
Siegel, Lawrence S.	PEDS	Andrews, D. Jeanne	PEDS
Smith, Louis L.	SURG	Andrews, H. Gibb	SURG, PEDS
Stilson, Mildred L.	PATH	Anholm, James D.	MEDN
Stilson, Walter L.	RADS	Antoine, John E.	RDMN
Street, Dana M.	ORTH	Aoyagi, Y. Paul	FMDN
Strother, Allen	PHRM	Applegate, Patricia J.	MEDN
		Applegate, Richard L. II	ANES
Thompson, Ralph J.	SURG	Archambeau, John O.	RDMN, PEDS, ANAT
Tilton, Bernard E.	PHRM, FMDN	Armijo, Javier A.	FMDN
		Armon, Carmel	NEUR
Wagner, Edward D.	MICR	Arruda, Johnny	OTOL
Walker, Weldon J.	MEDN	Ashwal, Stephen	NEUR, PEDS
Wareham, Ellsworth E.	SURG	Ask, Mihran H.	MEDN, PRVM
West, Raymond O.	FMDN	Assaad, Assaad N.	PEDS
Willard, Rodney E.	PATH	Austin, Bruce T.	RADS
		Avants, Teresa P.	GYOB
Yamada, Shokei	NEUS	Avila, Karole S.	PSYT
		Azer, Sherif A.	ANES

**THE FACULTY**

Abas, Nader A.	EMDN	Bacchus, Habeeb	MEDN
Abbey, David	PRVM	Bae, Moon S.	PMRH
Abboy, Ramadas	MEDN	Bae, Won-Chul	RADS
Abd-Allah, Shamel A.	PEDS	Bailey, Leonard L.	#SURG, PEDS
Abdollah, Karim	ORTH	Bailie, Ira	SURG
Abidin, Carol J. F.	PRVM	Balarezo, Carlos A.	SURG
Abu-Assal, Maged L.	NEUS	Balasubrananiam, Kumaravelu	MEDN
Ackley, Kimberley D.	OPHM	Balgama, Freddie B.	PEDS
Adams, Jane E.	PRVM	Ballard, Jeffrey L.	SURG
Adams, Joel E.	ORTH	Ballard, Robert H.	ORTH
Adey, W. Ross	PHSL, NEUR	Bandell, Herbert	UROL
Afifi, Ghada Y.	SURG	Banerjee, Monica M.	MEDN
Ahmad, Borhaan S.	PEDS	Bangasser, Ronald P.	FMDN
Ahmad, Imdad	MEDN	Bansal, Dajeet B.	MEDN
Ahn, Changwoo	SURG	Bansal, Ramesh C.	MEDN
Aka, Paul	SURG	Barker, Linbrook	SURG
Akin, M. Rose	PATH	Barnes, Donald T.	RADS
Aldana, Daniel H.	PEDS	Bartley, James A.	PEDS
Al-Zaibag, Muyaed	MEDN	Bartos, Rebekah	MEDN
Albert, Julie M.	PSYT	Baum, Marti	PEDS
Alexander, Charles H.	ORTH	Baylink, David J.	BCHM, MEDN, ORTH
Alexander, Wil	FMDN, SURG	Beaghler, Marc A.	UROL
Allard, Martin W.	ANES	Beal, William S.	ORTH
Aloia, Roland C.	ANES, BCHM	Beardsley, Lisa M.	PRVM
Alvarez, Ofelia A.	PEDS	Beckner, Ardis S.	PRVM
Anderson, Barbara A. Frye	PRVM	Beckwith, J. Bruce	PATH, PEDS, UROL
		Bedros, Antranik A.	PEDS
		Bee, David M.	MEDN

Beehler, Connie J.	MEDN	Brauer, Stanley D.	ANES
Beeson, W. Lawrence	PRVM	Bravo, Norman D.	FMDN
Behrens, B. Lyn	PEDS	Briggs, Bernard D.	ANES
Bekendam, Pamela Y.	OPHM	Briggs, Burton A.	ANES, PEDS, SURG
Belen, Nenita	PSYT	Brinegar, Charles H., Jr.	MEDN
Belin, Lynna S.	PRVM	Britt, Wm. G. III	PSYT
Belliard, J. C.	PRVM	Brown, Gary W.	MEDN
Bellinger, Denise	PATH	Brown, Scott E.	PMRH
Belote, James H.	PEDS	Brown, William E.	ORTH
Beltz, Richard E.	BCHM	Brown-Harrell, Vickie D.	MEDN
Bergan, John C.	SURG	Brownlee, Robert W.	SURG
Berglund, Hazel J.	ORTH	Bruckner, Evert A.	MEDN
Berk, Lee S.	PATH, PRVM	Bruno, Richard	PRVM
Berriman, Diane J.	MEDN	Bruttomesso, Samuel A.	PEDS
Bestard, Eduardo A.	ORTH	Bryan, Patrick J.	RADS
Bhat, Venkatesh G.	PSYT	Buchholz, John	PHRM
Bhatt, Dilip R.	PEDS	Bui, Hong	PEDS
Bietz, Duane S.	SURG	Bull, Brian S.	#PATH
Billimoria, Phiroze	RADS	Bull, Maureen H.	ANES
Bischoff, Frederick M.	PRVM	Bullock, Weldon J.	PATH
Bishop, Jon	SURG	Bunnell, William P.	ORTH, PEDS
Blacharski, Paul A.	OPHM	Burnham, Gilbert M.	PRVM
Blackman, Donald M.	MEDN	Bush, David A.	RDMN
Blaine, Andrew C.	PSYT	Bush, Sean P.	EMDN
Blaine, Cyril D.	MEDN	Butler, Terrence L.	PRVM
Blair, Robert D.	PRVM	Byrne, John M.	MEDN
Blakeley, Eleanor A.	RDMN		
Bland, David	MEDN	Cady-Marks, Jann M.	PRVM
Blankenship, James W.	PRVM	Camacho, Elber S.	MEDN
Blanton, Christopher L.	OPHM	Cancel, George A.	PRVM
Blaylock, Andre V.	FMDN	Cantin, Edouard	MICR
Blight, Edward M.	UROL	Cantos, Kenneth	PATH
Blix, Glen G.	PRVM	Cao, Jeffrey D.	PATH
Block, Barry S.	GYOB	Carnahan, Clarence, Jr.	PSYT
Blomquist, Ingrid K.	MEDN	Carlin, Lorna S.	PSYT
Bocachica, John H.	MEDN	Carter, Ethelred E.	MEDN
Bohr, Thomas W.	NEUR	Carter, P. Richard	SURG
Boling, Eugène P.	MEDN	Casiano, Carlos A.	MICR
Bonnet, Reiner	MEDN	Castanotto, Daniela	MICR
Borut, Danielle L.	PEDS	Castro, Daniel	MEDN, FMDN
Bouland, Daniel L.	MEDN	Catalano, Richard D.	SURG, EMDN
Bounds, Jeffrey A.	NEUR	Cecere, Renzo	SURG
Boyne, Philip J.	SURG	Cemaj, Samuel	SURG
Bozzetti, Louis P., Jr.	PSYT	Cha, Chul C.	PEDS
Bradley, Beverly J.	PRVM	Cha-Kim, Angela	PMRH
Bradshaw, Tonda D.	MEDN	Challakere, Kedernath K.	PSYT
Braham, Arlene	PRVM	Chan, Clement K.	OPHM
Brandon, Antonius D.	PSYT	Chan, Philip J.	GYOB, PHSL
Brandstater, Bernard J.	ANES	Chaney, Robert H.	MEDN
Brandstater, Murray E.	#PMRH	Chang, Andrew C. H.	MEDN
Brandt, Allen L.	ANES	Chang, Pairoj S.	RADS
Brar, Harbinder S.	PEDS	Charles-Marcel, Zeno L.	MEDN
Braslow, Lawrence	SURG	Chase, Donald R.	PATH
Brauer, Floyd S.	ANES	Chase, Resa L.	PATH

Chaudhuri, Kali	ORTH	Craig, Kevan Z.	PMRH
Checchia, Paul A.	PEDS	Craig, William A.	ORTH
Cheek, Gregory	MEDN	Cranston, Richard T.	PSYT
Chen, Chien-Shing	MEDN	Cress, C. Raymond	PHRM
Chen, Jeng-Hong	MEDN	Crittenden, I. Hunter	PEDS
Chen, Shin Tai	BCHM	Culver, Donald L.	MEDN
Chen, Yang K.	MEDN	Cummings, Christopher D.	RADS
Cheng, George	ANES	Cummings, Michael A.	PSYT
Chhabra, Gurbir	ORTH	Cunningham, Janet A.	FMDN
Chi-Lum, Bonnie I.	PRVM	Curtis, Brian V.	NEUS
Chick, Wilson K. W.	PATH	Cutler, Drew	PEDS
Childers, Ben J.	SURG	Cutler, Ralph E.	MEDN, PHRM
Chin, Terry W.	PEDS		
Ching, Victor C.	UROL	D'Antonio, Linda	OTOL, SURG
Chinnock, Richard E.	PEDS, EMDN	Dael, Christopher D.	PEDS
Chonkich, George D.	OTOL	Dai, Qiang G.	ORTH
Choo, Daniel C. A.	MEDN	Dai, Vo Minh	PEDS
Choo, Evelyn B.	PATH	Dandamudi, Nagamani	MEDN
Chow, Tony	EMDN	Daniel-Underwood, Linda	EMDN
Christison, Caron S.	PSYT	Daniels, Althea P.	PEDS
Christison, George W.	PSYT	Dannenbergh, Bernard W.	EMDN, PEDS
Chua, Samuel C.	EMDN	Darnell, T. Allan	PRVM
Chung, Deborah M.	ANES	Dasgupta, Chiranjib	BCHM
Chung, Paul Y.	OPHM	Date, Vishvanath V.	MEDN
Chung, Iris L.	FMDN	Davidian, James L.	OPHM
Churg, Warren B.	FMDN	Davidson, Bert J.	GYOB
Cipta, Anne T.	ANES	Davis, Clyde L.	ORTH
Clark, Susan J.	PEDS	Davis, Rhonda P.	PHRM
Clarke, Ian C.	ORTH	Dayes, Lloyd A.	NEUS
Cleaves, Wallace	PEDS	Dee, David, Jr.	RADS
Clippinger, Karen S.	PMRH	DeGuzman, Lino J.	MEDN
Clover, William M.	PEDS	DeLeon, Daisy D.	PHSL
Coen, Michael J.	ORTH	DeLeon, Dennis	FMDN
Coggin, C. Joan	MEDN	DeLeon, Marino A.	PHSL
Cojocar, Traian T.	NEUS	del Rio, Michael	SURG
Colburn, Keith K.	MEDN	Deming, Douglas	PEDS
Cole, Bradley A.	NEUR	Denler, Loren L.	OPHM
Cole, Daniel J.	ANES	Denmark, Thomas C.	MEDN
Collen, Martin J.	MEDN	Deppe, Linda	FMDN
Collier, Carl E.	ANES	Derrig, Pearse	RADS
Collins, Norberto E.	SURG	Devlin, Vincent J.	ORTH
Colohan, Austin R. T.	NEUS	Dew, Ann L.	PRVM
Concepcion, Waldo	SURG	Dexter, James R.	MEDN
Condon, Stanley C.	MEDN	Dickinson, Barbara F.	PRVM
Connelly, Cyril G.	PRVM	Dimyan, Sherif A.	NEUR
Cooper, James H.	SURG	Dombrowski, Edmund T.	ORTH
Corbett, Steven W.	EMDN	Donaldson, Thomas K.	ORTH
Cordero-MacIntyre, Zaida R.	PRVM	Doram, Keith R.	MEDN
Corselli, Johannah	GYOB, PATH	Doran, Kenneth D.	MEDN
Cosgrove, Daniel S.	MEDN	Doroshov, George D.	PEDS
Cottrell, Alfred C.	MEDN	Downey, Ralph III	MEDN
Couperus, James J.	#MEDN	Doyle, Brian S.	ORTH
Coutrakon, George B.	RDMN	Drachenberg, Juan C.	GYOB
Craig, Debra D.	MEDN, FMDN	Drinkard, James P.	MEDN



Duazo, Neita R.	PATH	Fisher, Franz P.	MEDN
Duckles, Sue P.	PHRM	Flaxel, Christina J.	OPHM
Ducsay, Charles A.	PHSL	Fleming, Elaine K.	PRVM, PH
Duffin, Robert M.	OPHM	Fleming, John	FMDN
Dunbar, Jennifer A.	OPHM	Fletcher, Hansel M.	MICR
Dunbar, Richard D.	RADS	Fletcher, William H.	ANAT, PHSL
Duncan, Jan W.	ORTH	Flowers, Mary Alice	MEDN
Duran, Carlos	SURG	Fodor, Istvan	MICR
Duran, David T.	PRVM	Fordham, Stewart	OTOL
Dure-Smith, Peter	RADS	Forland, Steven C.	MEDN
Dyer, James F., Jr.	PSYT	Foster, Glenn L.	MEDN
Dyjack, Angela B.	PRVM	Foster, Ray L.	ORTH
Dyjack, David T.	PRVM	Fowler, Sylvia K.	MEDN
Dysinger, P. William	PRVM	Fox, David	PEDS
		Fox, George	PEDS
Eaton, Douglas O. W.	MEDN	Fraser, Gary E.	MEDN, PRVM
Eby, William C.	MICR	Frazier, Calvin H.	ORTH
Ehrman, Walter J.	SURG	Friley, Joy I.	PATH
Elder, Harvey A.	MEDN, MICR	Friedman, Gerald S.	MEDN
Eli, Bradley	PMRH	Friedrichsen, Eric J.	OPHM
Elmendorf, Edward	PEDS	Fritzsche, Peggy J.	RADS, UROL
Emil, Sherif G. S.	SURG	Frivold, Geir P.	MEDN
Enge, Kari M.	PSYT	Frykman, Gary K.	ORTH
Engel, Thomas P.	ANES, PHRM	Fullerton, Monte W.	SURG
Englander, David M.	EMDN	Funkhouser, Laura	PEDS
Erickson, David G.	ORTH	Fymat, Alain L.	RADS, RDMN
Escher, Alan P.	MICR		
Escobar-Poni, Bertha C.	ANAT	Gabriel, Edward	RADS
Escutin, Rodolfo O.	NEUR	Gaede, Donn P.	PRVM
Evans, Dwight C.	MEDN	Gallagher, Edward J.	PRVM
Evans, J. Robert	MEDN	Gan, Karen	SURG
Evans, Michelle L.	GYOB	Gandy, Mary L.	PEDS
		Gangolly, Jothi	ANES
Fagoaga, Omar R.	PATH/ANAT	Garberoglio, Carlos A.	SURG
Fahmy, Raed N.	MEDN	Garberoglio, Maria C.	PEDS
Fallows, James A.	MEDN	Gardiner, Geoffrey A.	RADS
Fandrich, Bryan L.	SURG	Garlitos, Juanito	MEDN
Fang, David	SURG	Gay, George C.	OTOL
Fanous, Yvonne	PEDS	Geller, Arnold Z.	RADS
Fargo, Wise M.	PEDS	Gemechu, Fekede	SURG
Farley, John R.	BCHM, MEDN	Ghalambor, Navid	ORTH
Fayard, Carlos R.	PSYT	Ghazal, Elizabeth	ANES
Fayard, Elba E. S.	PEDS	Ghazal, Ronny G.	ORTH
Fedak, Marian A.	MEDN	Giang, Daniel W.	#NEUR
Felten, David L.	PATH	Gibson, Desmond D.	DERM
Fernando, Miguelito M.	GYOB	Gibson, Emily D.	GYOB
Fernando, Nancy R.	PEDS	Gibson, Thomas E., Jr.	GYOB
Fernando, Ronald S.	MEDN	Giebel, Arthur W.	OPIH
Ferris, Mary E.	FMDN	Giem, Marla G.	MEDN
Ferry, David R.	MEDN	Giem, Paul A. L.	EMDN
Ferry, Linda H.	PRVM, FMDN	Gierz, Monika	PSYT
Finley, J. Michael	MEDN	Giese, Herbert A., Jr.	PEDS
Firek, Anthony F.	MEDN	Gilbert, Raymond	GYOB, PHSL, ANAT
Fisher, Brent A.	PRVM	Gilman, Christopher	RDMN

Gimbel, Howard	OPHM	Hallatt, Jack G.	GYOB
Gnanadev, Appannagari	SURG	Haller-Wade, Tina	FMDN
Godfrey, Thomas E.	MEDN	Halverson, Janet E.	PEDS
Gold, Philip M.	MEDN	Hamamura, Richard K.	ANES
Godil, Aslam	MEDN	Hammond, Paul G. S. J.	MEDN
Godil, Fouzia	MEDN	Hanna, Fikry F.	PATH
Gollin, Gerald	SURG	Hardesty, Jeffrey S.	GYOB
Gollin, Yvonne G.	GYOB	Hardesty, Robert	SURG
Gomer, Perin D.	NEUR	Hardin, Steven B.	MEDN
Gonzaça, Alma A.	MEDN	Harding, Gary H.	PRVM
Gonzaça, Eduardo J.	MEDN	Harding, George T. IV	PSYT
Gonzalez, Ramon R., Jr.	PHSL	Hardt, William H.	MEDN
Gonzalez, Wilbert	GYOB	Harms, Lawrence A.	SURG
Goodlow, Gerald R.	PMRH	Harris, Anna L.	ANES
Gorenberg, Alan	MEDN	Harris, Duncan D.	UROL
Gorenberg, Daniel	MEDN	Harris, John J.	MEDN
Gottlieb, Bernard	DERM, MEDN, PATH	Harris, Melvyn L.	EMDN
Grames, Barry S.	ORTH	Hart, Kenneth W.	PRVM
Grange, Jeffrey L.	EMDN	Hart, Richard H.	#PRVM
Gray, Timothy P.	ORTH	Hashmi, Aijaz	PEDS
Green, Lora M.	MICR, MEDN	Hasso, Anton	RADS
Green, Steven M.	EMDN	Hathout, Eba H.	PEDS
Gregg, Robert H.	GYOB	Hattis, Ronald P.	PRVM
Gregorius, Beverly J.	GYOB	Hau, Benny	FMDN
Gridley, Daila S.	MICR, BCHM, RDMN	Hauck, Arthur J.	PATH
Griffin, Margaret A.	MEDN	Hauck, Loran D.	MEDN
Griffin, Ronald	MEDN	Haviland, Mark G.	PSYT
Grill, Bruce B.	PEDS	Haywood, L. Julian	MEDN
Grohar, Albin H.	PRVM	Hayden, Jess, Jr.	ANAT
Grohar, H. Irene	PRVM	Heart, Joya	PEDS
Gropen, Joseph	MEDN	Hegstad, Douglas R.	MEDN
Grube, Gerald	RADS	Heidinger, Harvey	PEDS
Gu, Weikuan	MEDN	Height, Vickie V.	MEDN
Guñan, Añnes S.	PEDS	Heine, Nancy J.	MEDN
Gundry, Steven R.	SURG, PEDS	Heinrich, James A.	OTOL
Gunnarsson, Jocelyn	MEDN	Heischober, Bruce	EMDN, PEDS
Gurule, Donna R.	PRVM	Heiskell, Laurence E.	SURG
Gustafson, G. Allen	ORTH	Hendricks, Douglas L.	SURG
Guth, Kathlene E.	RADS	Herber, Marilyn	GYOB
Guzek, James	OPHM	Herber, Raymond	MEDN
Guzman, Ernie	PEDS	Herring, Rosa P.	PRVM
Guzon-Castro, Erlinda	ANES	Herrman, Jan M.	MEDN
Gysin, Reinhard	MEDN	Herrmann, E. Clifford	BCHM
Haddad, Ella H.	PRVM	Hessinger, David A.	PHSL, PHRM, BCHM
Haddad-Wilson, Mouna E.	MEDN	Heustis, Darryl G.	PATH
Haddock, Bryan L.	PRVM	Hewes, Gordon E.	PRVM
Hadley, G. Gordon	PATH	Heywood, J. Thomas	MEDN
Hadley, H. Roger	UROL	Hill, Arthur C.	SURG
Hage, Jean-Claude	FMDN	Hill, Kevin B.	MEDN
Hahn, Young-il H.	GYOB	Hillebrand, Donald J.	MEDN
Halaska, Barbara N.	DERM	Hilliard, Dennis A.	MEDN
Hale, William R.	ORTH	Hilliker, Sandra	MICR
Hall, Raymond G., Jr.	PHSL	Hillock, Ronald H.	PATH/ANAT
		Hindman, Bernard W.	RADS

Hindman, Joseph K.	PEDS	Jacobs, Edward C.	UROL
Hinshaw, David B., Jr.	#RADS	Jacobsen, Wayne K.	#ANES, PEDS
Hirokane, Jane M.	DERM	Jacobson, Alan K.	MEDN
Hocko, Janet M.	RDMN	Jacobson, John D.	GYOB
Hodgkin, Georgia E.	PRVM	Jahromi, Mehdi S.	MEDN
Hoffman, Keith D.	PATH, #SURG, SD	James, Patricia L.	EMDN
Hoffman, Thomas J.	MEDN	Jang, Geun C.	MEDN
Hoffner, Richard J.	EMDN	Janner, Donald L.	PEDS
Hohl, Joseph C.	ORTH	Jason, Holly A.	PRVM
Holmes, Troy	PRVM	Jarvis, William T.	PRVM
Holness, Yvette A.	PMRH	Jaspan, Robert L.	ORTH
Holshouser, Barbara	RADS	Javor, George T.	BCHM, MICR
Hong, Jeffrey C.	OPHM	Jay, Shirlene	DERM
Hooker, William M.	ANAT	Jenkins, Rick L.	PSYT
Hopp-Marshak, Helen P.	PRVM, FMDN, PH	Jennings, John C.	MEDN
Hopp, Joyce W.	PRVM, PH	Jensen, Curtis M.	EMDN
Hopper, Andrew O.	PEDS	Jesse, Claran H.	ORTH
Horstmann, Jonathan	FMDN	Job, Jayakaran S.	PRVM
Hotchner, Bradley R.	ORTH	Job, Leela	PEDS
Houchin, Kenneth	OPHM	Jobe, Christopher M.	#ORTH, PATH
Houwen, Berend	PATH	Johl, Karnjit	MEDN
Howard, Frank D. IV	MEDN	Johna, Samir D.	SURG
Hoxie, Russell E.	MEDN	Johnson, Bernarr B.	ORTH
Hoyle, Jerry D.	PSYT	Johnson, Cameron J.	PSYT
Hsia, Patricia C.	MEDN	Johnson, Christopher L.	SURG
Huang, Christopher T.	GYOB	Johnson, D. Robert	ORTH
Huang, Galen C. L.	MEDN	Johnson, John L.	PEDS
Huang, Virginia S. S.	SURG	Johnson, Mark	MICR
Huang, Wen-Hsiung L.	PEDS	Johnson, Robert L.	MEDN
Hubbard, Joseph G.	UROL	Johnson, Ronald B.	GYOB
Hubbard, Richard W.	PATH, BCHM	Johnson, Walter D.	NEUS
Hu, Ke-qin	MEDN	Johnston, George E.	PRVM
Huffaker, Gary G.	OPHM	Johnston, Patricia K.	PRVM
Hug, Eugen B.	RDMN	Jones, John S.	EMDN
Hughes, Walter W.	PATH	Jones, William G.	RADS
Hunt, Enacio G.	MEDN	Jorteg, Torbjorn I.	MEDN
Hurley, Mary E.	ORTH	Josselson, Albert J.	MEDN
Hwang, Allen L.	OTOL	Jouline, Igor B.	MICR
Hwang, Bessie L.	PRVM	Jung, Timothy	OTOL
Hyman, Charles J.	PEDS	Junkert, William E., Jr.	FMDN
Iacono, Robert P.	NEUS	Jutzy, Kenneth R.	MEDN
Ibrahim, Rauof A.	PEDS	Jutzy, Roy V.	MEDN
Ihde, Janet H.	SURG	Kachenmeister, Robert	SURG
Ing, Michael B.	MEDN	Kafrouni, George	SURG
Ing, Samuel J.	RADS	Kalbermatter, Olga	PEDS
Irish, Susan G.	PRVM	Kaleita, Thomas A.	PEDS
Isaacs, George M.	MEDN	Kalina, Sharon L.	SURG
Isaacs, Kristen E.	OPHM	Kamdar, Vikram V.	MEDN
Isaeff, Dale M.	MEDN	Kanel, Harris H.	ORTH
Isinhue, Ming Chang	FMDN	Kantoci, Darko	MEDN
Jackson-Townsend, Denise L.	MEDN	Karefa-Johnson, Suzanne	PRVM
Jackson, Michael H.	PRVM	Kasper, August	PSYT
Jacobs, Durand F.	PSYT	Katz, Jeffery	MEDN

Kay, Brent W.	MEDN	Krishnan, Rajagopal	MEDN
Kean, Charles	PHSL, SURG, SD	Ku, James S.	FMDN
Keany, James E., Jr.	EMDN	Kuhn, Irvin N.	MEDN
Kedlaya, Divakara	PMRH	Kuhn, Michael	PEDS
Keeney, Elden D.	GYOB	Kurth, Donald J.	PSYT
Kemmerer, Scott R.	RADS		
Kennedy, Casey M. C.	MEDN	Lal, Satish K.	ORTH
Kestenbaum, David J.	MEDN	Lam, Mary	PEDS
Kettering, James D.	MICR	Lamb, Diane T.	PRVM
Ketting, Case H.	RDMN	Lambert, Dorothee	NEUR
Keushkerian, Simon	SURG	Lamberton, Henry L.	PSYT
Khalil, Sherif F.	MEDN	Lamin, Victor K.	MEDN
Khan, Faisal A.	SURG	Landa, Howard	UROLOG
Khan, A. Hafeez	MEDN	Lang, Darrell W.	UROLOG
Khanna, P. Mona	PRVM	Langga-Sharifi, Euly M.	MEDN
Khehra, Balram S.	MEDN	Langridge, William	BCHM, MICR
Khoja, Sadruddin G. Hussain	MEDN	Lansing, J. Dee	GYOB
Kidder, Melissa Y.	GYOB	Lao, Wilson D.	MEDN
Kido, Daniel K.	#RADS	Larsen, James P.	MEDN
Kief-Garcia, Monika L.	RADS	Larsen, Ranae	PEDS
Killeen, J. David	SURG	Larsen, Steven E.	MEDN
Kim, Daniel B.	SURG	Lau, Alan C. K.	MEDN
Kim, Daniel I.	MEDN	Lau, Benjamin H. S.	MICR
Kim, Grace J.	EMDN	Lau, Carol A.	ANES, PEDS
Kim, Jien Sup	PMPH	Lau, Francis Y. K.	MEDN
Kim, Paul S.	RADS	Lau, Kam Y.	MEDN
Kim, Robin	ANES	Lau, Kathleen M.	GYOB
Kim, Richard	FMDN	Lau, Kin-Hing W.	MEDN, BCHM
Kimball-Jones, Penny L.	ANES	Lau, Susie H.	MEDN
Kinback, Kevin M.	PSYT	Leach, Richard A.	FMDN
King, Alan	#GYOB	Lee, Charles	ANES
Kirby, Michael A.	PEDS, PATH/ANAT	Lee, Esther C.	PMRH
Kirk, Gerald A.	RADS	Lee, Jerry W.	PRVM
Kirkish, Patricia M.	PSYT	Lee, Jonathan C.	PMRH
Kirsch, Wolff M.	NEUS, BCHM	Lee, Joseph	MEDN
Kjellin, Ingrid B.	RADS	Lee, Kil Un	PATH
Klein, Robert A.	NEUR	Lee, Scott W.	MEDN
Klooster, Marquelle J.	PEDS	Lee, Soon S.	DERM
Klop, Winiford J.	PSYT	Lee, Sze C.	UROLOG
Knierim, David S.	NEUS, PEDS	Lee, Tony B.	FMDN
Knutsen, Raymond	PRVM	Leeper, Jeffrey C.	PRVM
Knutsen, Synnove M. F.	PRVM	Lehocky, Brett E.	SURG
Koffman, Martin	ORTH	Leonora, Carmela M.	MEDN
Kofoed, Tommy F.	PRVM	Leonora, John	#PHSL, BCHM
Koobs, Dick H.	PATH	Lessard, George M.	BCHM
Kootsey, J. Mailen	#PHRM, PHSL	Lester, Margaret H.	FMDN
Kopec, Kenneth M.	FMDN	Leung, Duncan	MEDN
Kopiloff, George	PSYT	Levine, Edward F.	SURG
Korbin, Marvin A.	NEUS	Levine, Paul A.	MEDN
Korpman, Ralph A.	PATH	Levine, Victor D.	EMDN
Kounang, Robertus H.	PMRH	Levison, Linda L.	PRVM
Kovitz, Benjamin	PSYT	Levy, Jody D.	MEDN
Kraft, Marilyn S.	PRVM	Levy, Richard P.	RDMN
Krick, Edwin H.	MEDN	Lewis, John E.	MEDN, MICR, PATH

Lewis, Terence D.	MEDN	Marilao, Hilario A.	PEDS
Li, Kai Ming	SURG	Marohn, Robert	NEUS
Li, Xin Min	MEDN	Marsa, Robert J.	MEDN
Li, Yiming	MICR, SD	Martell, Jerry T.	MEDN
Libanati, Cesar	MEDN	Martin, Frederick J.	PEDS
Lilly, Michael B.	MICR, MEDN	Martin, Robert D.	ANES
Lin, Fang Jen	RDMN	Marxmiller-Bork, Jane	PEDS
Lin, Ren Jang	MICR	Maskin, Michael B.	PSYT
Lindsey, Leigh A.	PSYT	Mason, Jenifer J.	PRVM
Linkhart, Thomas A.	BCHM, PEDS	Mason, Linda J.	ANES, PEDS
Linsted, Kristian D.	PRVM	Matiko, James D.	ORTH
Liu, Arthur M.	FMDN	Mattos, Robert	FMDN
Liu, Paul C. W.	ORTH	Mauer, James S.	PSYT
Liwnicz, Boleslaw H.	PATH, NEUR	Mazlumian, Jorge R.	PEDS
Liwnicz, Regina G.	PSYT	McClure, Chalmers D. III	PEDS, NEUR
Llaurado, Joseph G.	RADS	McCracken, John D.	MEDN
Lo, Takkin	MEDN	McGann, David G.	OTOL
Lofthouse, Gerald	FMDN	McGhee, William H.	PSYT
Loh, Edward S.	UROL	McGill, Kenneth J.	GYOB
Loh, Michelle H.	PEDS	McGregor, Samar S.	PRVM
Loh, Samuel	ANES	McGrew, David R.	OPHM
Lois-Wenzel, Maria	PEDS	McIvor, Deborah	ANES
Longo, Lawrence D.	GYOB, PHSL, PEDS	McLarty, M. Ruth	SURG
Lonser, Ewald R.	PATH	McLaughlin, Kevin P.	UROL
Loo, Lawrence K.	MEDN	McLeary, Karl	PRVM
Loredo, Lilia N.	RDMN	McLeary, Michael	RADS
Lorenz, Elmer W.	OTOL	McMillan, Paul J.	ANAT
Lorenz, Kenneth L.	ORTH	McNeill, James I.	OPHM
Lossett, Ronald D.	PRVM	McNeill, Jeanine A.	RADS
Loughman, Barbara E.	MEDN	Medina, Ernesto P. S.	PRVM
Loverso, Felice L.	PMRH	Mehr, Lois M.	FMDN
Lowe, Timothy	ANES	Mehta, Chandrakant V.	MEDN
Lu, Abraham T.	MEDN, NEUR, PATH	Mehta, Sukh S. R.	MEDN
Luh, George Y.	RADS	Meltzer, Elliot A.	FMDN
Lui, Paul	UROL	Menoni, Rosalinda M.	NEUS
Luna, Bryan R.	PRVM	Merkel, Clifford D.	ORTH
Luther, R. Daniel	EMDN	Meyer, James A.	ANES
Lynch, E. Lea	EMDN	Meyer, Robert E., Jr.	PEDS
Mace, John W.	#PEDS	Miao, Michael	ORTH
MacKenzie, D. Allan	ORTH, PEDS	Mierau, Gary W.	PATH
Mackett, M. C. Theodore	SURG	Milholm, Richard L.	FMDN
MacMurray, James P.	PSYT	Miller, Daniel W.	RADS
Maeda, George	PHSL	Miller, Donald	NEUR, MEDN
Mak, Albert C.	RDMN	Miller, James S.	PEDS
Malik, Priya	MEDN	Miller, Jon M.	RDMN
Malott, Richelle L.	PATH	Miller, Kenneth	PSYT
Manchanda, Ramesh K.	MEDN	Miller, Mark L.	SURG
Mann, Julie P.	PEDS	Mills, Daniel C.	SURG
Manoucheri, Manoucher	FMDN	Mitchell, Robert D.	MEDN
Mantik, David W.	RDMN	Mittal, Renu	FMDN
Marais, Gary E.	MEDN, FMDN	Modeste, Naomi N.	PRVM
Marais, H. John	MEDN	Moersch, Richard N.	SURG
		Mofid, Massoud	GYOB

Mohan, Subburaman	BCHM, MEDN, PHSL	Ng, Sherlene	MEDN
Moheimani, Assad	ORTH	Ngo, Can Thanh	ANES
Mohn, Gina J.	FMDN	Ngo, Eric	PRVM
Mohr, Lester L.	SURG	Ngo, Ernest	RDMN
Molinaro, Giuseppe	MICR, PATH, PEDS	Ngo, Madeline N.	PEDS
Moloney, Patrick M.	MEDN	Nitta, Annette T.	MEDN
Montgomery, Susanne B.	PRVM	Nizar-Oentojo, Lanny	PEDS
Moores, Donald	SURG	Noguchi, Thomas T.	PATH
Moorehead, Morrel T.	PATH	Nourok, David S.	MEDN
Moorhead, J. David	UROL, PEDS, SURG	Nowrangi, Pushpa	PEDS, MEDN
Morgan, John W.	PRVM	Nutter, David	FMDN
Morgan, Walter C.	FMDN	O'Callaghan, Thomas E.	SURG
Morris, John P.	PEDS	Oberg, Kerby C.	PATH/ANAT, SURG
Mortensen, John W.	RADS	Ochoa, Humberto R.	EMDN
Morton, Kelly	FMDN	Oh, Young Hyun	OPHM
Mosaad, Phebe E.	ANES	Ojogho, Okechukwu N.	SURG
Moseley, Wendell	FMDN	Oliverio, Michael R.	FMDN
Moyers, Michael	RDMN	Olson, Mark W.	FMDN
Mthombeni, Jonathan J.	PEDS	Opai-Tetteh, David	DERM
Mudge, Milton K.	ORTH	Opsahl, Michelle T.	FMDN
Mukherjee, Ashis	MEDN	Ormsby, Gail M.	PRVM
Mulla, Neda F.	PEDS	Orr, Barbara L.	FMDN
Mullen, James H.	SURG	Orr, Robert D.	FMDN
Multani, Malwinder K.	MEDN	Oshiro, Karen N.	GYOB
Munson, James L.	PEDS	Oshrin, Harvey W.	PSYT
Munson, Laurel J.	GYOB	Owen, Fay D.	PSYT
Murdoch, J. Lamont	MEDN	Oyemade, Oulsola A.	PEDS
Murdoch, William G.	PSYT		
Murray, Earl D.	MEDN		
Murray, Rick D.	GYOB	Pai, Ramdas G.	MEDN
		Pai, Shantharam R.	FMDN
Nadeswaran, Bavani	MEDN	Pai, Sudha	MEDN
Naftel, John C.	EMDN	Pan, Wayne T.	ORTH
Nakamoto, Masao	GYOB	Pant, Keshab D.	MEDN
Namihas, Ivan	RDMN	Pappas, James M.	PATH
Narloch, Joseph A.	PMRH	Pardave, Raul	FMDN
Nash, Walter C.	ORTH	Park, Seekook	MEDN
Nava, Pedro B.	ANAT	Parker, Giglia A.	GYOB
Navigato, William J.	ORTH	Patchin, Rebecca	ANES
Nazzal, Sami B.	MEDN	Patel, Bipin L.	PSYT
Neglio, Michael	RADS	Patel, Dinesh	RADS
Nehlsen-Cannarella, Sandra	SURG, PATH	Pathi, Rama T.	ORTH
Neish, Christine M.	PRVM	Patton, William C.	GYOB
Nelson, Brett S.	EMDN	Patyal, Baldev R.	RDMN
Nelson, Gregory A.	RDMN	Paul, Malcolm D.	SURG
Nelson, J. Burdette, Jr.	SURG	Pauls, Gary L.	MEDN
Nelson, Jerald C.	MEDN, PATH	Pearce, Barry F.	NEUS
Nelson, Ronald M.	GYOB	Pearce, Ronald G.	PEDS
Nesper, Timothy P.	EMDN	Pearce, William J.	PHSL, BCHM
Nethery, W. James	RMDN	Peckham, Norman H.	PATH
Neufeld, Timothy E.	FMDN	Peppers, Timothy A.	ORTH
Neumann, Monica M.	ANES	Pereyra, Robert	SURG
Newball, Axa I.	MEDN	Perez, Mia C. N.	PATH

Perkin, Ronald	PEDS, EMDN	Razzouk, Nabil Y.	PRVM
Perrin, Ralph W.	PRVM	Reese, Leroy A.	GYOB
Perry, Allan W.	SURG	Reeve, Ivan L.	FMDN
Pesavento, Richard D.	OPHM	Reeves, Clifton D.	SURG
Peters, Warren R.	PRVM, PH	Reeves, Michelle H.	FMDN
Petersen, Floyd E.	PRVM, PH	Reinhold, Eskild A.	ORTH
Peterson, Donald I.	MEDN, NEUR, PHRM	Resch, Charlotte	SURG
Peterson, Gordon W.	MEDN, NEUR	Reische, Susan E.	PRVM
Peterson, John E., Jr.	PEDS, SD	Reiss, Gunter	PRVM, PH
Pettersen, George R.	PRVM	Reiswig, Philip H.	ORTH
Petti, George H., Jr.	OTOL	Rendell-Baker, Leslie	ANES
Peverini, Ricardo L.	PEDS	Rentschler, Robert E.	MEDN
Pham, Lien T.	FMDN	Reynolds, Lowell W.	ANES, PMRH
Phan, Hai T.	MEDN	Ribeiro, Paulo A.	MEDN
Phillips, Edward	MEDN	Rice, Gail T.	PRVM
Piantini, Rebeca E.	PEDS	Richards, Douglas C.	PRVM
Pierce, John A.	PRVM	Richards, Winston H.	UROLOG
Pitts, Frederick W.	NEUS	Richardson, Janet M.	RDMN
Platt, Marc L.	MEDN	Richardson, Raymond G.	SURG
Pomeroy, Jonnel W.	PEDS	Richardson, Timothy	MEDN
Power, Gordon G.	GYOB, MEDN, PHSL	Richmond, Mark G.	EMDN
Prakash, Ved	RADS	Ricketts, Herman H.	MEDN
Prendergast, Thomas J.	PRVM	Riesen, Sharon K.	PEDS
Preston, William	RDMN	Riesenfeld, Arthur J.	MEDN
Prichard, John E.	SURG	Riesenman, John P.	PSYT
Proctor, George J.	PSYT	Riezman, Alan J.	OPHM
Prout, Harry C.	SURG	Riffel, Hugo D.	GYOB
Pulec, Jack L.	OTOL	Rigsby, Rhodes L.	MEDN
Pulverman, R. Steven	FMDN	Rincon, Francisco	PEDS
Pumphrey, Charles D.	PEDS	Rippon, W. Barton	BCHM
Punjab, Anil P.	SURG	Ritchie, Lois	FMDN
Pursley, Donald G.	PRVM	Rivera, Inherla H.	PRVM
Putnoky, Gilbert J.	MEDN	Rivera, Jorge L.	SURG, FMDN
		Rivera, Martha E.	PEDS
Qin, Xuezhang	MEDN	Rizkalla, Suzanne S.	MEDN
Quijada, Earl B.	FMDN	Ro, Hong	RADS
Quinton, Bonnie S.	PSYT	Roberson, B. B.	ANES
		Roberts, Wendy E.	MEDN
Racine, Harold V.	GYOB	Robinson, Magda L.	FMDN
Radcliffe, Anthony B.	PRVM	Robitshek, Daniel	MEDN
Raethel, Hilton R.	PRVM	Robles, Antonio E.	SURG
Rains, Victoria	MEDN	Roddy, Sarah M.	PEDS, NEUR
Raiszadeh, Moussa	RADS	Rogers, Frank R.	SURG
Rajaram, Sujatha	PRVM	Roghair, Garry D.	RADS
Rajaratnam, Richard C.	OTOL	Rollie, Orris O.	FMDN
Rajpoot, Deepak K.	PEDS	Roman, Maher A.	MEDN
Rambharose, John A.	MEDN	Ronan, Ann M.	FMDN
Rand, Robert W.	NEUS	Roos, Philip J.	MEDN
Randolph, J. Franklin	FMDN	Rosenquist, Robert C., Jr.	OPHM
Rao, Ravindra	PEDS	Rossi, Carl J.	RDMN
Rasi, Alfredo L.	SURG	Rossi, John J.	BCHM, MICR
Rauser, Michael E.	OPHTH	Roth, Patricia J. D.	PSYT
Razzouk, Anees J.	SURG	Roth, Kenneth R.	ORTH

Roth, William G.	PSYT	Sentenn, Gregg A.	PSYT
Rothrock, Steven G.	EMDN	Sehra, Ruchir	PEDS
Rouhe, Stanley A.	NEUS	Serabyn, Cynthia L.	MEDN
Rouse, Glenn A.	RADS	Seraj, Ibrahim	GYOB
Rowe, Robert P.	OTOL	Sewell, Esther M.	EMDN
Roy, Ira	MICR	Shah, Manoj C.	PEDS
Rubenstein, Isreal	PEDS	Shah, Praful C.	PEDS
Ruckle, Herbert C.	UROL	Shah, Pravin M.	MEDN
Rudatsikire, Emmanuel M.	PRVM	Shah, Rina N.	MEDN
Rudich, Marc D.	SURG	Shankel, Tamara M.	MEDN, PEDS
Ruiz, Carlos E.	MEDN	Sharpe, Lawrence D.	PEDS
Ruiz, Cynthia C.	MEDN	Shatz, Arnold I.	UROL
Russell, Findlay E.	NEUS	Shaw, Katheryn	GYOB
Ryu, Junichi	MICR	Sheldon, Richard L.	MEDN
		Sheppard, Asher R.	PHSL
Saaty, Hans	RADS	Sheridan, Clare M.	PEDS, EMDN
Sabate, Joan	PRVM	Sheridan, Frank	PATH
Sadoyama, James A.	OTOL	Sherwin, Thomas S.	EMDN, PEDS
Sahney, Shobha	PEDS	Shin, Anthony S.	PSYT
Sajid, Melvin L.	PSYT	Shoji, Hiromu	ORTH
Sakala, Elmar P.	GYOB	Shook, James E.	ORTH, PEDS
Saks, Gerald	PEDS	Shu, Stanford K.	PEDS
Salemi, Charles S.	PRVM	Shum, Terence H.	MEDN
Salo, Jonathan C.	SURG	Shutter, Lori A.	NEUR
Salvador, Herminia S.	GYOB	Siddiqui, Mohammed S.	PEDS
Samady, Abdul R.	ANES	Siedenburg, Eric	EMDN
Samarza, Alane M.	FMDN	Siegel, Lance M.	OPTH
Sanchez, Richard A.	PRVM	Silva, Vasthi V.	MEDN
Sandberg, Lawrence B.	PATH	Silvergleid, Arthur J.	PATH/ANAT
Sanders, Hanna O.	PMRH	Simon, Diana	PSYT
Sanders, Isaac	RADS	Simon, Lauren M.	FMDN
Sandlin, Constance J.	PEDS	Simpson, James D.	SURG
Sando, Marvin M.	GYOB	Simpson, William R.	PSYT
Saphyakhajon, Phisit	PEDS	Singh, Kuldeep	ANES
Sasaki, Gordon H.	SURG	Singh, Pramil N.	PRVM
Saukel, George W.	PATH	Singhvi, Ajeet R.	MEDN
Scharffenberg, John A.	PRVM	Skenderian, Daniel	PSYT
Schell, Randall M.	ANES	Skoretz, Lynnetta S.	MEDN
Schell, Victor	PMRH	Skubic, John W.	ORTH
Schlunt, Michelle	ANES	Slater, James B.	RADS, RDMN
Schneider, Kimber L.	OPHM	Slater, James M.	#RDMN
Schoene, Herman R.	ORTH	Slater, Jerry D.	RDMN
Schulte, Reinhard W.	RDMN	Slattery, Charles W.	#BCHM, PEDS
Schultz, David E.	PSYT	Slayback, John B.	SURG
Schultz, Gerald	OPHM	Sloop, R. Richard	NEUR
Schultz, Michael D.	PSYT	Small, Mary L.	GYOB
Schultz, Robert L.	ANAT	Smith, Bruce E.	PRVM
Schulz, Eloy E.	RADS	Smith, Chauncey L.	MEDN
Schwandt, Allen L.	MEDN	Smith, Douglas C.	RADS
Schwartz, Alan C.	MEDN	Smith, James W.	SURG
Schwartz, Elaine B.	MEDN	Soderblom, Robert E.	MEDN
Scoggins, Thomas H.	PRVM	Soeprono, Fred F.	DERM, PATH
Segura, George A.	PEDS	Sogioka, Norman Y.	SURG, PEDS



Soliman, Sami S.	MEDN	Taylor, W. Leonard	PATH
Solinger, Michael R.	MEDN	Teel, Robert W.	PHSL
Soloniuk, Victor J.	ANES	Teichman, Siegmund	MEDN
Sonne, Janet L.	PSYT	Teller, Douglas W.	MEDN
Soo, Izabella	NEUR	Testerman John K.	#FMDN
Sood, Satish M.	BCHM	Testerman, Nancy	FMDN
Soret, Samuel	PRVM	Thiel, John T.	PSYT
Sowers, Lawrence C.	BCHM	Thiruvengadem, Ravi	MEDN
Sparks, Dale B.	MEDN	Thomas, Larry L.	PRVM
Specht, N. Lennard	MEDN	Thomas, Mark E.	EMDN
Spencer-Smith, E. Lawrence	GYOB	Thomas, Tamara L.	EMDN
Stanford, David C.	MEDN	Thompson, Gordon W.	MEDN
Stanhiser, Ruth	FMDN	Thompson, Joseph R.	RADS
Stanisai, Khushal A.	MEDN	Thompson, Kevin S.	PATH
Steiger, Ralph N.	ORTH	Thompson, Teresa L.	ANES
Steinman, John C.	ORTH	Thomsen, C. Torben	PRVM
Stephenson, Charles M., Sr.	OPHM	Thorington, Glyne U.	PHSL
Stephenson, Christopher	OPHM	Thorward, Sul R. O.	PSYT
Stevens, H. Glenn	MEDN	Thrasher, Thais	PSYT
Stewart, Charles E. III	OTOL	ThyaganRajan, Srinivasan	PATH
Stewart, Steven C.	UROL	Tieche, Jean M.	PHSL
Stier, Gary R.	ANES	Tiwari, Bhoodev	MEDN
Stilson, Donald L.	ANES	Tong, Karen A.	RADS
Stockdale, John C.	PSYT	Tooma, Ghassan S.	ORTH
Stoletniy, Liset Nora	MEDN	Tooma, Tom	OPHM
Stone, Herman H.	MEDN	Torres, Abel	#DERM
Storkersen, Kris J.	OPHM	Torres, Sidney E.	ANES
Stottlemeyer, Debra D.	MEDN	Torres, Vilma	MEDN
Strong, Donna D.	MEDN, MICR, BCHM	Torrey, Robert R., Jr.	UROL
Strong, Richard M.	MEDN	Tourtellotte, Charles R.	MEDN
Strum, Scott R.	PMRH	Trenkle, Ingrid E.	DERM, PATH
Sue, Michael W.	MEDN	Trenkle, Steven J.	PATH
Sun, Chao H.	MEDN	Trotta, Paul H.	SURG
Swabb, Richard J.	MEDN	Trupp, Diana L.	PEDS
Swensen, Ron	GYOB	Tud Tud-Hans, Leah H.	MEDN
Swensen, Waylene W.	RDMN	Tully, Richard J.	RADS
Swift, James D.	PEDS	Tulyathan, Pranee	PEDS
Swope, David M.	NEUR	Tyler, Richard P.	PEDS
Szalay, Aladar	BCHM		
		Umgelter, Edward H.	SURG
Tabuenca, Arnold D.	SURG	Unger, Jeffrey R.	FMDN
Tackoor, Philbin R. R.	UROL	Unis, Joseph S.	ANES
Takayesu, Sharon	OPHM	Uppal, Gurvinder S.	ORTH
Talbert, Myron J.	SURG		
Tamase, Terri L.	MEDN	Vain, Nestor E.	PEDS
Tamayose, Teri S.	PRVM	Van, Thu-Hoa V.	PEDS
Tan, Catherine A.	PEDS	Van Gent, Conrad M.	MEDN, BCHM
Tan, Linda Giles	MEDN	VanderHoek, Kees	MEDN
Tan, Matthew S.	SURG	Vannix, David L.	SURG
Tan, Shirley	ANES	Vannix, Robert S.	SURG
Tan, Shirley M.	MEDN	van Stralen, Daved W.	PEDS, EMDN
Taylor, Barry L.	#MICR, BCHM	Vatnitsky, Stanislav	RDMN
Taylor, Frank C.	RADS	Vaughan, Darrell L.	GYOB

Verde, E. Ray		PSYT	Wilson, Samuel G.	EMDN
Verska, Joseph J.		SURG	Winston, Karen A.	PEDS
Vincent, Alix		RADS	Wittlake, William A.	EMDN
Vipond, Bertrand H.		MEDN	Witzel, Everet W.	FMDN
Vo, Huu Dinh		PEDS	Wohlmuth, Cinna T.	GYOB
Voleti, Vasanti		PEDS	Wolf, Alan W.	ORTH
Vura-Weis, Dorothy E.		FMDN	Wolfsen, James	RADS
Vyhmeister, Edwin E.		SURG	Wolnisty, Carl	MEDN
Vyhmeister, Nidia R.		PEDS	Won, Daniel	NEUS
			Won, Esther	FMDN
Wagner, F. William	ANAT, ORTH, SURG		Wong, Andrew L.	MEDN
Wagner, Robert J.		GYOB	Wong, Francisco M.	MEDN
Wagner, William		SURG, ANAT	Wong, Raymond Y.	MEDN
Wallace, G. Carleton		ORTH	Wong, Sammy S.	MEDN
Wallar, P. Harold		OPHM, PEDS	Wood, David L.	ORTH
Walter, Michael H.		MEDN	Wood, Michael	SURG
Walters, Clifford A.		GYOB	Wood, Virchel E.	ORTH
Wang, Hansen		SURG	Wren, David G.	PRVM
Wang, Nan		SURG	Wresch, Robert R.	OPHM
Ward, John A.		MEDN	Wright, Danielle L.	PRVM
Wareham, Ellsworth E.		SURG	Wright, Edwin T.	DERM, PATH
Warner, Kim		GYOB	Wright, Kenneth R.	ANAT
Warren, M. Charles		SURG	Wright, Lester N.	PRVM
Wat, Bo Ying		PATH	Wright, Michael H.	ORTH
Wat, Linda I.		ANES	Wu, Ronald S.	GYOB
Wat, Pamela J.		PATH	Wursten, April	PSYT
Watkins, Barry E.		ORTH	Wycliffe, Nathaniel D.	RADS, SURG
Watkins, Gregory		RADS		
Watkins, Hubert C.		DERM	Yamada, Robert K.	FMDN
Watson, James R.		ORTH	Yanni, George S.	PEDS
Webster, James L.		SURG	Yellon, Steven M.	ANAT, PEDS, PHSL
Wechter, William J.		MEDN	Yhip, Sherrie E.	PEDS
Ween, Jon E.		NEUR	Yin, Larry	PEDS
Weis, Edmund B.		ORTH	Yonemoto, Leslie T.	RDMN
Welley, Thomas E.		RADS	Young, Gary	PEDS
Welsh, David B.		MEDN, SURG	Young, Lionel W.	RADS, PEDS
Wentland, Paul D.		MEDN	Youssef, Moheb S.	ANES
Wergedal, Jon E.		MEDN, BCHM	Yu, Jack	FMDN
Werner, Leonard S.		MEDN, FMDN	Yu, Leisure	ORTH
Wernick, Gary M.		MEDN	Yusufaly, Yasmin A.	MEDN
Wessels, Izak E.		OPHM		
West, J. Robert		DERM	Zane, Ernest S.	#OPHM
Whitbread, David H.		PSYT	Zane, Steven E.	OPHM
Whiting, Faye J.		GYOB	Zaske, Merlin R.	PEDS
Whitney, Elvonne		GYOB	Zdrojewski, John L.	DERM
Wisseman, George J.		ORTH	Zerne, Stanley R. M.	GYOB
Wilbur, David W.		MEDN	Zewdie, Telahun	MEDN
Wilcox, R. Bruce		BCHM	Zhang, Lubo	PHRM
Wilkins, David L.		OPHM	Zhu, Yong Hua	NEUS
Wiley, Thomas E.		RADS	Zimmerman, Pearl G.	PRVM
Williams, Gregory B.		PRVM	Zirkle, Thomas J.	SURG, EMDN
Williams, Paul		ORTH	Zuccarelli, Anthony J.	MICR, BCHM
Wilson, Richard J.		UROL	Zuppan, Craig W.	PATH

**SUMMARY OF GRADUATES**

Class of 1914	6	Class of 1960	85
Class of 1915	12	Class of 1961	87
Class of 1916	10	Class of 1962	82
Class of 1917	13	Class of 1963	99
Class of 1918	22	Class of 1964	103
Class of 1919	5	Class of 1965	78
Class of 1920	14	Class of 1966	89
Class of 1921	20	Class of 1967	89
Class of 1922	23	Class of 1968	83
Class of 1923	39	Class of 1969	69
Class of 1924	58	Class of 1970	85
Class of 1925	70	Class of 1971	95
Class of 1927	42	Class of 1972	97
Class of 1928	36	Class of 1973 APR	97
Class of 1929	65	Class of 1973 SEP	121
Class of 1930	67	Class of 1974	135
Class of 1931	78	Class of 1975	82
Class of 1932	83	Class of 1976A	81
Class of 1933	69	Class of 1976B	72
Class of 1934	90	Class of 1977A	79
Class of 1935	82	Class of 1977B	80
Class of 1936	95	Class of 1978A	70
Class of 1937	73	Class of 1978B	67
Class of 1938	109	Class of 1979A	64
Class of 1939	109	Class of 1979B	81
Class of 1940	93	Class of 1980A	74
Class of 1941	90	Class of 1980B	66
Class of 1942	77	Class of 1981	100
Class of 1943	82	Class of 1982	143
Class of 1944A	67	Class of 1983	138
Class of 1944B	77	Class of 1984	129
Class of 1945	72	Class of 1985	131
Class of 1946	93	Class of 1986	134
Class of 1947	90	Class of 1987	129
Class of 1948	87	Class of 1988	131
Class of 1949	86	Class of 1989	127
Class of 1950	74	Class of 1990	145
Class of 1951	81	Class of 1991	142
Class of 1952	81	Class of 1992	153
Class of 1953A	100	Class of 1993	129
Class of 1953B	93	Class of 1994	154
Class of 1954	91	Class of 1995	153
Class of 1955	93	Class of 1996	153
Class of 1956	84	Class of 1997	140
Class of 1957	98	Class of 1998	167
Class of 1958	96	Class of 1999	149
Class of 1959	77	Class of 2000	<u>154</u>
		TOTAL	8,283

## SCHOOL ALUMNI ASSOCIATION

Graduates of the School of Medicine organized their Alumni Association in 1915 when only two classes totaling eighteen members had been graduated, and the organization has functioned continuously since that time. Membership is extended to alumni who have graduated with the Doctor of Medicine degree from this University and to graduates of the American Medical Missionary College, operated by Seventh-day Adventists in Battle Creek, Michigan, from 1895 to 1910. Associate membership is extended to students of the School of Medicine, and affiliate membership is extended to faculty who have earned degrees from other institutions. During the 1986-87 school year, membership was extended to the basic science faculty.

### Statement of mission and purpose

The Alumni Association of the School of Medicine, Loma Linda University, is a nonprofit organization composed both of alumni and affiliate members. The association is organized to support the School, to promote excellence in worldwide health care, and to serve its members in the following ways:

1. **EDUCATION** To encourage continuing education among its members by organizing and offering graduate education and related programs at the Annual Postgraduate Convention and at other health care seminars.
2. **COMMUNICATION** To publish newsworthy, factual information about alumni and developments at the School of Medicine in the alumni journal, in the annual directory, and in journals of organizations under the umbrella of the association.
3. **HEALTH CARE** To foster improved health care and preventive medicine throughout the world by conducting postgraduate seminars; demonstrations; and people-to-people, health care interactions with Christian concern and compassion.
4. **PHILANTHROPY** To encourage the contribution of funds for the support of undergraduate and graduate education at the School, including funds for student loans, research, and professorial chair endowments; and funds to provide for improvement in the School's physical plant. To encourage donations of money, equipment, and supplies for educational centers and health care facilities in areas of need worldwide.
5. **MEDICAL RESEARCH** To support medical research among the faculty and students of the School, thereby enhancing the association's ability to respond to the needs of its alumni and to advance medical knowledge.
6. **FRATERNITY** To promote and provide gatherings, in an atmosphere of Christian and professional friendship, which foster unity and advance the foregoing objectives.

## ACCREDITATION STATUS

### THE UNIVERSITY

Founded as College of Evangelists 1905-06. Chartered as College of Medical Evangelists by the state of California December 13, 1909. Accredited by Northwest Association of Secondary and Higher Schools April 7, 1937. Accredited by Western Association of Schools and Colleges (prior to January 1962, Western College Association) February 24, 1960. Became Loma Linda University July 1, 1961. Professional curricula started and approved as indicated.

**THE GRADUATE SCHOOL:** Started in 1954. Accredited through University accreditation.

### THE PROFESSIONS

**CLINICAL LABORATORY SCIENCE (FORMERLY MEDICAL TECHNOLOGY):** Started in 1937. Approved by the Council on Medical Education of the American Medical Association since August 28, 1937. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences.

**CYTOTECHNOLOGY:** Started in 1982. Initial approval by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Cytotechnology Programs Review Committee January 20, 1983.

**DENTAL HYGIENE:** Started in 1959. Approved by the Commission on Dental Accreditation of the American Dental Association since September 7, 1961.

**DENTISTRY:** Started in 1953. Approved by the Commission on Dental Accreditation of the American Dental Association since May 23, 1957.

**DIETETIC TECHNOLOGY:** Started in 1988. Approved by The American Dietetic Association Commission on Accreditation and Dietetic Education April 25, 1988.

**EMERGENCY MEDICAL CARE:** Started in 1993 as a baccalaureate degree program for paramedics, respiratory therapists, and other allied health professionals desiring education, science, or management credentials in emergency medical services.

**ENDODONTICS:** Started in 1967. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1969.

**HEALTH INFORMATION MANAGEMENT:** Started as medical record administration in 1963. Approved by the Council on Medical Education of the American Medical Association since December 1, 1963. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the American Health Information Management Association.

**MEDICAL RADIOGRAPHY:** Started in 1941 as radiological technology. Approved by the Council on Medical Education of the American Medical Association November 19, 1944. Currently approved by the Joint Review Committee on Education in Radiologic Technology and the state of California Department of Health Services.

**MEDICAL SONOGRAPHY:** Started in 1976 as diagnostic medical sonography. Approved by the Joint Review Committee on Education in Diagnostic Medical Sonography October 24, 1985.

**MEDICINE:** Started in 1909. Approved by the Association of American Medical Colleges and the Council on Medical Education of the American Medical Association since November 16, 1922.

**NUCLEAR MEDICINE:** Started in 1970. Approved by the Council on Medical Education of the American Medical Association June 23, 1973. Currently approved by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology.

**NURSING:** Hospital school started at Loma Linda in 1905. Hospital school added at Los Angeles in 1924. Degree school organized in 1948. Accredited by the National Nursing Accrediting Service December 10, 1951, with approval continuing under the National League for Nursing. Initial 1917 approval of the California State Board of Health extended until college program approved July 1, 1952, by the California Board of Registered Nursing. California Board of Registered Nursing approval since 1952. Public health nursing preparation recognized, 1959.

**NUTRITION AND DIETETICS:** Started in 1922 as a certificate program; baccalaureate degree conferred 1932-54; graduate program offered since 1954. Internship program continuously approved by The American Dietetic Association from 1957 through 1974; reestablishment of baccalaureate degree program authorized October 1971. Coordinated undergraduate program accredited by The American Dietetic Association Commission on Accreditation/Dietetics Education, 1974.

**OCCUPATIONAL THERAPY:** Started in 1959. Initial approval by the Council on Medical Education of the American Medical Association June 10, 1960. Full approval March 30, 1962. Currently approved by the Accreditation Council for Occupational Therapy Education.

**OCCUPATIONAL THERAPY ASSISTANT:** Started in 1988. Approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with The American Occupational Therapy Association (AOTA) April 13, 1989. Currently accredited by the Accreditation Council for Occupational Therapy Education of the AOTA.

**ORAL AND MAXILLOFACIAL SURGERY:** Started in 1978. Approved by the Commission on Dental Accreditation of the American Dental Association since 1981.

**ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS:** Started in 1960. Approved by the Commission on Dental Accreditation of the American Dental Association since May 1965.

**PEDIATRIC DENTISTRY:** Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1972.

**PERIODONTICS:** Started in 1979. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1972.

**PHYSICAL THERAPIST ASSISTANT:** Started in 1989. Approved by the American Physical Therapy Association April 4, 1990.

**PHYSICAL THERAPY:** Started in 1941. Initial approval by the Council on Medical Education of the American Medical Association June 6, 1942. Currently approved by the American Physical Therapy Association.

**PROSTHODONTICS:** Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since February 1995.

**PUBLIC HEALTH:** Started in 1948; reorganized in 1964. Approved by the American Public Health Association June 23, 1967. Currently approved by the Council on Education for Public Health.

**RADIATION THERAPY:** Approved by the Council on Medical Education of the American Medical Association December 1, 1974. Currently approved by the Joint Review Committee on Education in Radiologic Technology.

**RESPIRATORY THERAPY:** Started in 1971. Initial approval by the Council on Medical Education of the American Medical Association September 1972. Full approval June 1973. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Joint Review Committee for Respiratory Therapy Education.

**SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY:** Approved by the American Speech-Language-Hearing Association June 1, 1991.

**SURGICAL TECHNOLOGY:** Started in 1995. Approval by the Council on Medical Education of the American Medical Association December 1972. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Accreditation Review Committee on Education in Surgical Technology.

**ACCREDITING AGENCIES****THE UNIVERSITY**

**L**oma Linda University is accredited  
by WASC:

Accrediting Commission for Senior Colleges and  
Universities of the Western Association of Schools  
and Colleges  
P.O. Box 9990  
Mills College  
Oakland, California 94613-9990  
Phone: 510 / 632-5000  
FAX: 510 / 632-8361

WASC is an institutional accrediting agency  
recognized by the U.S. Secretary of Education and  
the Commission on Recognition of Postsecondary  
Accreditation.

In addition to WASC, the following agencies  
accredit specific University schools or programs\*:

**GRADUATE SCHOOL****Drug and Alcohol Counseling**

California Association of Alcoholism and Drug  
Abuse Counselors (CAADAC)  
3400 Bradshaw Road, Suite A5  
Sacramento, CA 95827  
Phone: 916 / 368-9412  
FAX: 916 / 368-9424  
Web Site: [www.caadac.org](http://www.caadac.org)  
Email: [caadac@jps.net](mailto:caadac@jps.net)

**Marriage and Family Therapy**

Commission on Accreditation for Marriage and  
Family Therapy Education of the American  
Association for Marriage and Family Therapy  
1133 15th Street, NW, Suite 300  
Washington, DC 20005-2710  
Phone: 202 / 467-5111 or 452-0109

**Social Work**

Council on Social Work Education  
Division of Standards and Accreditation  
1600 Duke Street  
Alexandria, Virginia 22314-3421  
Phone: 703 / 683-8080  
FAX: 703 / 683-8099

**SCHOOL OF ALLIED HEALTH  
PROFESSIONS****Cardiopulmonary Sciences**

Respiratory Therapy  
Committee on Accreditation for Respiratory Care  
1248 Harwood Road  
Bedford, TX 76021-4244  
Phone: 817 / 283-2835  
FAX: 817 / 354-8519 or 817 / 252-0773  
Web Site: [www.coarc.com](http://www.coarc.com)  
Email: [richwalker@coarc.com](mailto:richwalker@coarc.com)

**Surgical Technology**

Accreditation Review Committee on Education in  
Surgical Technology (ARC-ST)  
7108-C South Alton Way  
Englewood, CO 80112-2106  
Phone: 303 / 694-9262  
FAX: 303 / 741-3655  
Web Site: [www.arcst.org](http://www.arcst.org)  
Email: [coa@ast.org](mailto:coa@ast.org)

**Clinical Laboratory Sciences****Phlebotomy Certificate**

National Accrediting Agency for Clinical Laboratory  
Sciences (NAACLS)  
8410 West Bryn Mawr Avenue, Suite 670  
Chicago, IL 60631  
Phone: 773 / 714-8880  
FAX: 773 / 714-8886  
Web Site: [www.naacls.org](http://www.naacls.org)  
Email: [naaclsinfo@naacls.org](mailto:naaclsinfo@naacls.org)

**Clinical Laboratory Science  
(formerly Medical Technology)**

National Accrediting Agency for Clinical Laboratory  
Sciences (NAACLS)  
8410 West Bryn Mawr Avenue, Suite 670  
Chicago, IL 60631  
Phone: 773 / 714-8880  
FAX: 773 / 714-8886  
Web Site: [www.naacls.org](http://www.naacls.org)  
Email: [naaclsinfo@naacls.org](mailto:naaclsinfo@naacls.org)

**Cytotechnology**

Commission on Accreditation of Allied Health  
Education Programs (CAAHEP)  
35 East Wacker Drive, Suite 1970  
Chicago, IL 60601-2208  
Phone: 312 / 553-9355  
FAX: 312 / 553-9616  
Web Site: [www.caahep.org](http://www.caahep.org)  
Email: [caahep@caahep.org](mailto:caahep@caahep.org)

**Health Information Management****Health Information Administration**

Commission on Accreditation of Allied Health  
Education Programs (CAAHEP)  
35 East Wacker Drive, Suite 1970  
Chicago, IL 60601-2208  
Phone: 312 / 553-9355  
FAX: 312 / 553-9616  
Web Site: [www.caahep.org](http://www.caahep.org)  
Email: [caahep@caahep.org](mailto:caahep@caahep.org)

**Nutrition and Dietetics****Dietetic Technician Program****Nutrition and Dietetics**

Commission on Accreditation for  
Dietetics Education (CADE)  
The American Dietetic Association  
216 West Jackson Boulevard, 7th floor  
Chicago, IL 60606-6995  
Phone: 800 / 877-1600  
FAX: 312 / 899-4817  
Web Site: [www.eatright.org/cade](http://www.eatright.org/cade)  
Email: [education@eatright.org](mailto:education@eatright.org)

### **Occupational Therapy**

The Accreditation Council for Occupational  
Therapy Education (ACOTE)  
American Occupational Therapy Association, Inc.  
(AOTA)  
P.O. Box 31220  
Bethesda, MD 20824-1220  
Phone: 301 / 652-2682  
or toll free 800 / 377-8555  
FAX: 301 / 652-7711  
Web Site: [www.aota.org](http://www.aota.org)  
Email: [accred@aota.org](mailto:accred@aota.org)

### **Physical Therapy**

Commission on Accreditation in Physical  
Therapy Education  
American Physical Therapy Association  
(APTA)  
1111 North Fairfax Street  
Alexandria, VA 22314  
Phone: 703 / 706-3245  
FAX: 703 / 838-8910  
Web Site: [www.apta.org](http://www.apta.org)  
Email: see Web site

### **Radiation Technology**

#### **Medical Radiography—A.S.**

#### **Radiation Therapy Technology—certificate**

Joint Review Committee on Education in  
Radiologic Technology  
20 North Wacker Drive, Suite 900  
Chicago, IL 60606-2901  
Phone: 312 / 704-5300  
FAX: 312 / 704-5304  
Web Site: [www.jrcert.org](http://www.jrcert.org)  
Email: [mail@jrcert.org](mailto:mail@jrcert.org)

#### **[Diagnostic] Medical Sonography—certificate**

Joint Review Committee on Education in  
Diagnostic Medical Sonography (JRCE-DMS)  
1248 Harwood Road  
Bedford, TX 76021-4244  
Phone: 817 / 685-6629  
FAX: 817 / 354-8519  
Web Site: [www.caahep.org](http://www.caahep.org)  
Email: [sharonworthing@coarc.com](mailto:sharonworthing@coarc.com)

#### **Nuclear Medicine Technology—certificate**

Joint Review Committee on Education Programs  
in Nuclear Medicine Technology  
One 2nd Avenue East, Suite C  
Polson, MT 59860-2320  
Phone: 406 / 883-0003  
FAX: 406 / 883-0022  
Email: [jrcnmt@ptinet.net](mailto:jrcnmt@ptinet.net)

### **Speech-Language Pathology and Audiology**

American Speech-Language-Hearing  
Association  
10801 Rockville Pike  
Rockville, MD 20852  
Phone: 301 / 897-5700  
FAX: 301 / 571-0481  
Web Site: [www.sha.org](http://www.sha.org)  
Email: [accreditation@asha.org](mailto:accreditation@asha.org)

### **SCHOOL OF DENTISTRY**

Commission on Dental Accreditation  
American Dental Association  
211 East Chicago Avenue  
Chicago, IL 60611  
Phone: 800 / 621-8099  
FAX: 312 / 440-2915  
Web Site: [www.ada.org](http://www.ada.org)  
Email: [licarif@ada.org](mailto:licarif@ada.org)

### **SCHOOL OF MEDICINE**

Liaison Committee on Medical Education  
Association of American Medical Colleges  
2450 N Street NW  
Washington, DC 30037  
Phone: 202 / 828-0596  
FAX: 202 / 828-1125  
Web Sites: [www.lcme.org](http://www.lcme.org); [www.aamc.org](http://www.aamc.org)

### **SCHOOL OF NURSING**

National League for Nursing  
Accrediting Commission  
61 Broadway  
New York, NY 10006  
Phone: 212 / 363-5555, ext. 153  
or toll free 800 / 669-1656  
FAX: 212 / 812-0390  
Web Site: [www.nln.org](http://www.nln.org)

Board of Registered Nursing  
1170 Durfee Avenue, Suite G  
South El Monte, CA 91733  
Phone: 626 / 575-7080  
FAX: 626 / 575-7090  
Web Site: [www.rn.ca.gov](http://www.rn.ca.gov)

Commission on Collegiate Nursing Education  
(CCNE)  
One Dupont Circle NW, Suite 530  
Washington, DC 20036-1120  
Phone: 202 / 887-6791  
FAX: 202 / 887-8476  
Web Site: [www.aacn.nche.edu/accreditation](http://www.aacn.nche.edu/accreditation)

### **SCHOOL OF PUBLIC HEALTH**

Council on Education for Public Health  
1015 15th Street NW, Suite 402  
Washington, DC 20001  
Phone: 202 / 789-1050  
FAX: 202 / 789-1895  
Web Site: [www.ceph.org](http://www.ceph.org)

**Certified Health Education Specialist (CHES)**

National Commission for Health Education  
Credentialing, Inc.

944 Marcon Boulevard, Suite 310  
Allentown, PA 18103  
Phone: 610 / 264-8200  
FAX: 800 / 813-0727  
Email: [www.nchec.org](http://www.nchec.org)

**Drug and Alcohol Counseling**

California Association of Alcoholism and Drug  
Abuse Counselors (CAADAC)

3400 Bradshaw Road, Suite A5  
Sacramento, CA 95827  
Phone: 916 / 368-9412  
FAX: 916 / 368-9424  
Web Site: [www.caadac.org](http://www.caadac.org)  
Email: [caadac@jps.net](mailto:caadac@jps.net)

**Environmental Health Specialist**

State of California  
Environmental Health Specialist  
Registration Program

601 North 7th Street, MS 396  
P.O. Box 942732  
Sacramento, CA 94234-7320  
Phone: 919 / 324-8819  
FAX: 916 / 323-9869  
Web Site: [www.dhs.ca.gov](http://www.dhs.ca.gov)

**Public Health Nutrition and Dietetics**

Commission on Accreditation for  
Dietetics Education (CADE)

The American Dietetic Association  
216 West Jackson Boulevard, 7th floor  
Chicago, IL 60606-6995  
Phone: 800 / 877-1600  
FAX: 312 / 899-4817  
Web Site: [www.eatright.org/caade](http://www.eatright.org/caade)  
Email: [education@eatright.org](mailto:education@eatright.org)

\*All entry-level degrees are accredited by their  
respective professional accrediting associations.

**THE UNIVERSITY LIBRARIES****Major library resources**

Four major library resources on campus support the University's academic programs. These are: the Del E. Webb Memorial Library, the Joergensen Learning Resources Center, the Jesse Medical Library and Information Center, and the Veterans Administration Library Services. In addition to these facilities, specialized libraries are located in various medical and school departments on campus.

**Central library**

The Del E. Webb Memorial Library is the central library of Loma Linda University. Its historical roots go back to 1907, when a small library collection was started in a room of the old Loma Linda Sanitarium. In 1953 the growing collection was moved to its own building on the Loma Linda campus. Then in 1981, a new library building was built from a grant by the Del E. Webb Foundation, giving the library a total floor space of 87,670 square feet. This structure now houses the main library, while the old structure is now shared between the Department of Archives and Special Collections and the bound retrospective journals. As of April 2000, the library has a total collection of 402,455 books, bound and current journals, and media items (193,679 books; 125,752 bound journals and 1,403 current periodical subscriptions; and 81,621 media items).

**Library mission**

The mission of the Library is to stimulate and support the information needs of the University's instructional, research, and service programs. To this end the Library provides a full range of information support services, including, but not limited to, reference, circulation, reserve, access to the internet, and hundreds of online databases, e.g., full-text, selective, automatic dissemination of information services (SDI); database end-user training programs; library orientations; interlibrary loans; photocopy and pull services; a micro-computer laboratory; a learning service resource center; class-integrated library instruction programs; and services that support distance education and University outreach programs.

**Worldwide access**

The Library provides access to other collections worldwide using internet technologies. It also participates in a number of national and regional networks. One of these is the National Network of the Libraries of Medicine, founded by the National Library of Medicine. This structure is divided into eight regional sections, one of which is the Pacific Southwest Region. The Del E. Webb Memorial Library belongs to this region and is the designated medical resource library for San Bernardino and Riverside counties. Local library cooperatives include the IEALC (Inland Empire Academic Library Cooperative) and SIRCULS (San Bernardino, Inyo, Riverside Counties United





Library Services). Membership in these cooperatives gives our students, faculty, and staff access to the collections of these libraries.

#### **Archives and special collections**

The Department of Archives and Special Collections is the central repository of information on the history of Loma Linda University, the health sciences, and major collections on Adventism. In addition to print materials which include rare books, theses, and dissertations, there are microforms, sound recordings, and several thousand photographs. Searchable digitized indexes for various document files are also available via the Library's website. The collection also includes 14,000 linear feet of archival materials, which include papers of various denominational and University officials, as well as the congressional papers of the Honorable Jerry and Shirley Pettis.

#### **ELLEN G. WHITE ESTATE LOMA LINDA BRANCH OFFICE**

Also located in the Library is a branch office of the Ellen G. White Estate. It contains 60,000 typewritten pages of Ellen G. White's letters and manuscripts; 4,600 of her published articles; and several different files of materials pertaining to various aspects of her life and ministry. A computerized concordance to her published writings is available to researchers. A link to a bibliography of the different variant editions of her works is available on the Library's home page.



**LLUSMC  
CAMPUS  
MAP**



UNIVERSITY AVE.

**LOT G\***  
LLUMC Employee  
Parking Garage

PROSPECT ST.

Nelson  
House  
63

**LOT F  
North\***  
64  
West Hall  
(SN)

**LOT F  
South\***

← to (25)

# = MC amphitheaters  
H = Heliports

**LOMA LINDA UNIVERSITY**  
(not to scale)

**LOT X\*\***  
1  
Gentry  
Gymnasium

**LOT X\*\***  
2  
Media  
Services

STEWART STREET

**LOT Y\***  
15  
Shrovet  
Hall

**LOT Y\***  
16  
Alumni Hall  
for Basic  
Sciences

**LOT Y\***  
17  
Riskey  
Hall

**LOT Y\***  
23  
Griggs  
Hall (FR, GS)

**LOT Y\***  
24  
Moresen  
Hall

**LOT Y\***  
22  
Megan  
Hall

**LOT Y\***  
18  
Barton  
Hall

**LOT Y\***  
19  
Evans Hall  
(Cir for Health Promo.)  
Tribology/  
Biomechanics  
Biodynamics  
Research Lab

**LOT Y\***  
20  
Heritage 21  
Library  
Room

**LOT Y\***  
21  
Randal  
Visitors  
Center

**LOT Y\***  
28  
Prince  
Hall (SD)

**LOT Y\***  
27  
Samaritan  
sculpture

**LOT Y\***  
26  
Campus Chapel  
Fellowship Hall

**LOT Y\***  
29  
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**Key to abbreviations and symbols**  
(See also key on campus map)

X = Nearest cross street

> = See Area Map

LLU = Loma Linda University;

BMC Behavioral Medicine Center

CH Children's Hospital

CMC Community Medical Center

MC Medical Center

**Campus Map (numerical)**

1. Media Gymnasium
2. Genia Services (University, MC)
3. Geoscience Research Institute; Housekeeping (University); Radiation / Hazardous Materials Safety
4. Campus Engineering (maintenance shops); Lock and Key; Campus Receiving (University); 4G=Garage buildings
5. Purchasing (University); Campus Engineering (Machine Shop)
6. University Printing Services and Design Department
7. Drayson Center; Activities Center; Superfield; Student Union; Student Association
8. Speech and Hearing Clinic (AH)
9. Nichol Hall: School of Public Health; School of Allied Health Professions; 9C = Cottages; #60 ("Blue")—Marketing and Retention (AH); #70 ("Brown")—OT; Field Work Office; #80 ("Green")—SMS, Center for Health and Development (PH)
10. Daniels Residence Complex (men; graduate women)
11. Lindsay Hall (women's residence)
12. Campus Hill SDA Church
13. Linda Hall (Campus Hill SDA Church)
14. Evans Hall: Center for Health Promotion; Cutler Amphitheater; Student Health Service; Teaching Learning Center
15. Shryock Hall: Anatomy; Embryology Museum
16. Alumni Hall for Basic Sciences; Microbiology; Pathology; Courville Museum (pathology)
17. Risley Hall: Physiology; Pharmacology; Kellogg Amphitheater
18. Burden Hall: Academic Publications; University Relations; AH lab
19. Block Building: Orthopaedic Bioengineering Research Labs; Tribology Lab
20. Randall Visitors Center; Amphitheater; Jørgensen Learning Center
21. University Library; Del E. Webb Memorial; Main library; E. G. White Estate Branch Office; Heritage Room; Micro-Systems Support

22. Magan Hall: Administration, LOMA LINDA UNIVERSITY; Faculty Records; Gift Records; Advancement
23. Griggs Hall: Biology; Faculty of Religion; Graduate School
24. Mortensen Hall: Biochemistry; Center for Molecular Biology and Gene Therapy
25. Campus Security; Rideshare
26. University Church; Fellowship Hall; Campus Chapel
27. Good Samaritan sculpture
28. Prince Hall: School of Dentistry
29. Cogeneration Plant (power plant)
30. Advanced Periodontics Education; Dentistry faculty endodontics (private practice)
31. Educational Support Services (SID)
32. Central Building: Psychology (GS)
33. Center for Dental Research; University Computing (Rm. 208)
34. University Arts: Human Resource Management (personnel, payroll, benefits); Purchasing (MC); Advanced Life Support Education; Dentistry (private practice)
35. Faculty Dental Offices (private practice)
36. Occupational therapy lab (AH)
37. Grants Management (post-award, University); LLU Foundation Rental Office
38. Office of Sponsored Research (pre-award)
39. Bank of America
40. U. S. Post Office
41. Upper level: Business offices; Accounting; Foundation; Lower level: Student Services Center—Student Affairs (student life, international student services, off-campus housing, dean of students); Financial Aid; Student Finance / Accounting; Admissions; Loan Collections; University Records
42. La Loma Credit Union
43. Campus Cafeteria
44. Risk Management
45. Safety Education Center
46. Campus Store (bookstore, camera shop, Apple computer sales and service); LL Market (bakery, natural foods); Patio Pantry; Campus Pharmacy
47. Alumni Center: Alumni offices; Alumni Federation; Staff Development; Planned Giving; General Conference liaison
48. A.C.T.S. (emergency relief)
49. LOMA LINDA UNIVERSITY COMMUNITY MEDICAL CENTER
50. Ronald McDonald House
51. University Kidney Center (dialysis)
52. Faculty Medical Offices (FMO) (private practice)
53. LOMA LINDA UNIVERSITY CHILDREN'S HOSPITAL; Heliport, H South; Cafeteria; Central Computing (MC)
54. Proton Treatment Center
55. LOMA LINDA UNIVERSITY MEDICAL CENTER: School of Medicine; Heliport, H North;

- Lost and Found, B-404; Cafeteria; Amphitheaters: A-512, Lobby-1506; Transplantation Institute
56. Schuman Pavilion: International Heart Institute
  57. Chan Shun Pavilion: Cancer Research Institute
  58. Coleman Pavilion: School of Medicine; Center for Christian Bioethics
  59. Wong, Kerlee International Conference Center
  60. Emergency Department
  61. Express Care (urgent care, workers' compensation, employee health care)
  62. Mail Service (University, MC)
  63. Nelson House: Decision Support Services (MC)
  64. West Hall: School of Nursing; Graduate School Admin.

**Area Map (numerical)**

65. Material Supply and Distribution Support Services Center (Receiving, Mercantile, etc.) (MC); 1269 E., San Bernardino Ave., SB (X Tipppecanoe)
66. Loma Linda Children's Center, 25228 Shepardson Dr. Veterans Medical Center, Jerry L. Pettis Memorial (VA Hospital), 11201 Benton St. (X Barron Rd.)
68. Mountain View Plaza (X Barron Rd.): Education and Training Department (computer training, JTPA training) (University, MC); Diabetes Treatment Center (MC); Osteoporosis Research Center (LLU administrative office); Radiology Medical Group, administrative office; Hospice (MC); LL Medical Supply (MC); Home Care Services (respiratory, family) (MC); Judkins Library (MC); LLUMC Managed Care Finance; Health Care Patient Business Office (FMO billing); Adventist Health Managed Care
69. Loma Linda Health Center ("Cape Cod" buildings), Mountain View Ave. (X Barron Rd.); A-11306/Presidence: LL Community Medical Group
- B-11314 Cambridge: Psychiatry and Behavioral Medicine (SM)
- C-11320 Gloucester: Psychiatry conference rooms; Medical staff administration (BMC, CH, CMC, MC)
- D-11326 Worcester: Special Projects (MC); Physician Referral and Circle of Care
- E-11332 Westerly: Medical (private practice)
- F-11354 Wadden: Medical
- G-11360 Hartford: LLU Cancer Institute; Administration; Cancer Data Center; Clinical oncology research
- H-11346 Concord: Marketing (MC); Medical (private practice)
- I-11368 Springfield: LLU Cancer Institute; Region 5 Cancer Surveillance Program; Pharmaceutical research
- J-11374 Dover: see Counseling, below, 69J>
- K-11382 Danbury: Loma Linda Health Pharmacy; Dental (private practice)

- L-11340 Bridgeport: LLU Cancer Institute; Cancer Information
- Counseling and chemical dependency treatment centers (students, employees):*
- 69.B-11314 Cambridge: Student counseling; Psychiatry (SM)
- G-11360 Hartford, Suite A: Employee Assistance Program
- J-11374 Dover: Student Psychological counseling services (MC); Medical faculty (private practice)

70. LOMA LINDA UNIVERSITY BEHAVIORAL MEDICINE CENTER, 1710 Barron Road (X Terracina Blvd.); Crisis hotline; Partial hospitalization (days only); Inpatient
71. Marriage and Family Therapy Clinic, 164 W. Hospitalary Lane, Suite 15, SB (X Hunt's Lane)
72. Professional Plaza, 25455 Barron Frontage Road (X Loma Linda Drive; X Benton St.); Family and Child Therapy (FACT; Suite 108-A, LLUCH); Loma Linda Pharmacy; MC / SM teaching, administrative, and private practice offices

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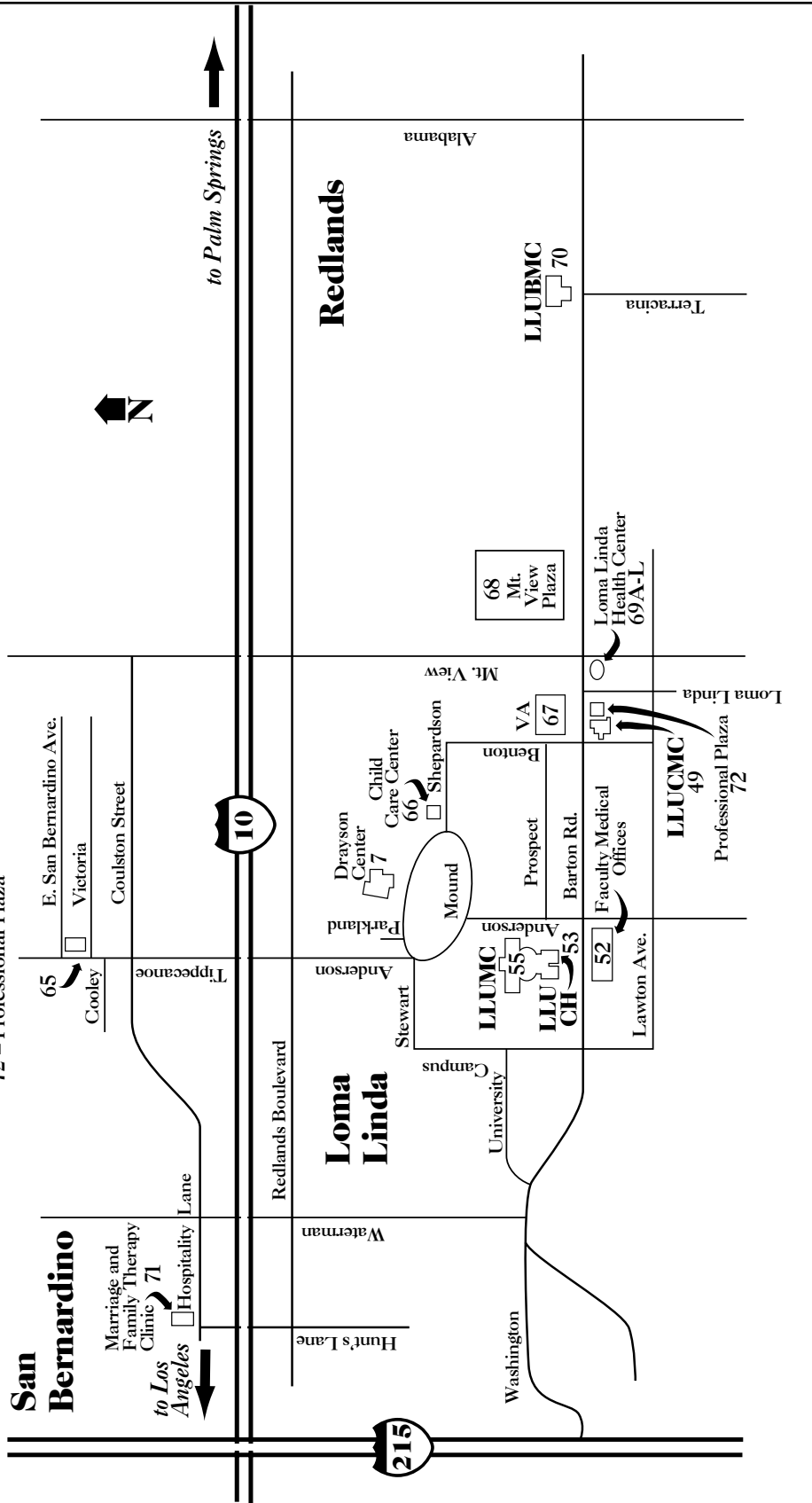
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 and area maps and legends, please contact:  
 Academic Publications, ext. 4-4525  
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- 66 – Loma Linda Children's Center
- 67 – Jerry L. Pettis Memorial Veterans Medical Center (VA Hospital)
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## PICTURE CAPTIONS

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- 20—Coleman Pavilion/School of Medicine and Loma Linda University Medical Center.
- 23—The early days, when Loma Linda University was the “sanitarium on the hill” (1905).
- 27—Macpherson Society president Kenneth Jutzy, M.D., and School of Medicine dean Brian Bull, M.D., present Teacher of the Year Award—a reserved parking place—to 2000 honoree George M. Isaacs, M.D.
- 35—Senior School of Medicine students who went on mission electives.
- 41—Junior and Senior students elected to the national honor medical society, Alpha Omega Alpha, based on scholastic, professional, and personal performance.
- 52—Medical students on the steps of the School of Medicine’s Coleman Pavilion studying for basic science comprehensives.
- 54—Carlos Casiano, M.D. (standing, right), discusses a sample of cells with Ph.D. student Xiwei We (seated), who is assisting Dr. Casiano in his NIH-funded research. Looking on is Zhou Chen, a rotation graduate student.
- 56—Steven Green, M.D., professor of emergency medicine, with Korbin Haycock, recipient of the 2000 Department of Emergency Medicine Student Award.
- 60—Kenneth Hart, M.D., assistant professor of International Health (SPH), goes over a patient’s chart with Diane Connelly, M.D., gynecology and obstetrics resident, at a SAC Health System clinic.
- 66—Daniel W. Giang, M.D., chair of the Department of Neurology, advising a patient.
- 69—A curriculum of service: medical students spend elective time at mission posts. D. Robert Johnson, M.D., (worldwide mission) Physician Recruitment, General Conference Representative Office, an orthopaedist (LLU SM), has played a major role in resurrecting the SM mission elective program. Here he reads an x-ray and explains his findings to medical students on a recent trip to Nepal.
- 75—School of Medicine students on a pediatrics rotation.
- 79—Ian M. Fraser, M.D.—Distinguished Emeritus Professor, chair of of the Department of Physiology and Pharmacology 1967-98, and recently retired vice president for academic and research affairs—with his wife, receives a bronze replica of the Good Samaritan sculpture, the University’s highest award to an individual.
- 81—Loma Linda University Behavioral Medicine Center, a center for healing the mind and psyche.
- 84—James M. Slater, M.D., professor and chair of the Department of Radiation Medicine, explains to California secretary of state Bill Jones and LLUMC administrative officer Terry Hansen the procedure a patient is about to undergo in the Proton Treatment Center. They are in a room where the gantry rotates, delivering a precisely controlled beam of radiation from the proton accelerator to treat diseases such as cancer.
- 88—Adelaido Sosa (right), the 100th liver transplant patient, receives a plaque from Waldo Concepcion, M.D., director of liver, pancreas, and kidney transplantation at Loma Linda University Medical Center.
- 91—H. Roger Hadley, M.D., head of the Division of Urology, with Juliana King, recipient of the 2000 Roger W. Barnes Award.
- 92—Commencement 2000.
- 94—A School of Medicine student (left) learns whole-patient care with a multidisciplinary team.
- 119—The Del E. Webb Memorial Library.
- 120—Ellen G. White, a Seventh-day Adventist pioneer, urged the church to establish health centers worldwide, and in Loma Linda the College of Medical Evangelists (now Loma Linda University and its various medical centers).
- 128—The Good Samaritan, the School of Medicine (Coleman Pavilion), Loma Linda University Medical Center.

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558-4955	44955	<b>International Student Services</b>	558-4879	44879
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558-4509	44509	<b>Student Financial Aid</b>	558-4879	44879
558-4508	44508	<b>University Records</b>	558-4879	44879
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558-6028	66028	<b>Student Counseling</b>	558-6090	66090
558-8625	88625	<b>Teaching Learning Center</b>	558-0179	80179
558-6050	66050	<b>Student Assistance Program</b>	558-6051	66051
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335-4275	34275	<b>Crisis Hotline</b>	1-800-752-5999	
793-9333	34008	Behavioral Medicine Center	558-9262	34262
558-4536	44536	<b>Faculty of Religion</b>	558-4856	44856
558-8434	88434	Dean	558-4856	44856
558-4956	44956	Biomedical and Clinical Ethics	558-0336	80336
558-4956	44956	Center for Christian Bioethics	558-0336	80336
558-8433	88433	Clinical Ministry	558-4856	44856
558-1000	ext. 43983	Center for Spiritual Life and Wholeness	558-0336	80336

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**Allied Health Professions**

558-4599	44599	Admissions	558-4291	44291-attn. Admissions
558-4545	44545	Dean	558-4291	44291-attn. Dean
558-4932	44932	Cardiopulmonary Sciences	558-4701	44701-attn. CPSC
558-4966	44966	Clinical Laboratory Sciences	558-4291	44291-attn. CLSC
558-4976	44976	Health Information Management	558-0404	80404-attn. HLIN
558-4593	44593	Nutrition and Dietetics	558-4291	44291-attn. DTCS
558-4628	44628	Occupational Therapy	558-0239	84239-attn. OTH
558-4948	44948	Occupational Therapy Assistant	478-0239	84239-attn. OCTA
558-4632	44632	Physical Therapy	558-4291	44291-attn. PHTH
558-4634	44634	Physical Therapist Assistant	558-4291	44291-attn. PTAS
558-4931	44931	Radiation Technology	558-4291	44291-attn. RTCH
558-4998	44998	Speech-Language Pathology/Audiology	558-4291	44291-attn. SPPA

558-4222	1616	<b>Dentistry</b>		
558-4621	44621	Admissions	558-4211	44211
558-4683	44683	Dean	558-0483	80483
558-8624	88624	Advanced Programs	558-0122	80122
558-4601	44601	Dentistry Program	558-4211	44211
558-4631	44631	Dental Hygiene Program	558-0313	80313
558-4669	44669	International Dentist Program	558-0133	80133
558-4790	44790	SD Student Affairs	558-4211	44211

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558-4529	44529	Admissions	558-4859	44859
558-4528	44528	Dean	558-0441	80441
		<b>Medicine</b>		
558-4462	44462	Admissions	558-4146	44146
558-4467	44467	Dean	558-0359	80359
558-4481	44481		558-4146	44146
		<b>Nursing</b>		
558-1000	ext. 44360	Admissions	558-4134	44134
558-4923	44923	Graduate	558-4134	44134
558-8061	88061	Undergraduate	558-4134	44134
558-8060	88060		558-4134	44134
		<b>Pharmacy</b>		
558-4529	44529	Admissions	558-4859	44859
558-4528	44528	Dean	558-0441	80441
		<b>Public Health</b>		
558-4546	44546	Admissions/Academic Records	558-4087	44087
558-4694	44694	Dean	558-4087	44087 attn. Admissions
558-4578	44578	Environmental and Occupational	558-4087	44087 attn. Dean
558-8750	88750	Health	558-0493	84493 attn. ENVH
558-8750	44590	Epidemiology and Biostatistics	558-0126	80126 attn. EPDM/STAT
558-4573	44573	Health Administration	558-0469	80469 attn. HADM
558-4575	44575	Health Promotion and Education	558-0471	80471 attn. HPRO
558-4902	44902	International Health	558-0389	80389 attn. INTH
558-4575	44575	Maternal and Child Health	558-0471	80471 attn. MCH
558-4598	44598	Nutrition	558-4095	44095 attn. NUTR
558-4918	44918	Preventive Medicine Residency	558-0630	80630 attn. PMR
		Program		

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<b>The Faculty of Religion</b>	<a href="http://www.llu.edu/llu/fr/">http://www.llu.edu/llu/fr/</a>	
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Center for Christian Bioethics	<a href="http://bioethics.llu.edu">http://bioethics.llu.edu</a>	<a href="mailto:gsample@ethicscenter.llu.edu">gsample@ethicscenter.llu.edu</a>
Center for Spiritual Life and Wholeness	<a href="http://www.llu.edu/llu/wholeness/">http://www.llu.edu/llu/wholeness/</a>	<a href="mailto:innerweave@som.llu.edu">innerweave@som.llu.edu</a>
 <b><i>The Schools:</i></b>		
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Clinical Laboratory Sciences		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. CLSC
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