

Annual Report

2023

UNIVERSITY OF THE
PACIFIC

Thomas J. Long
School of Pharmacy



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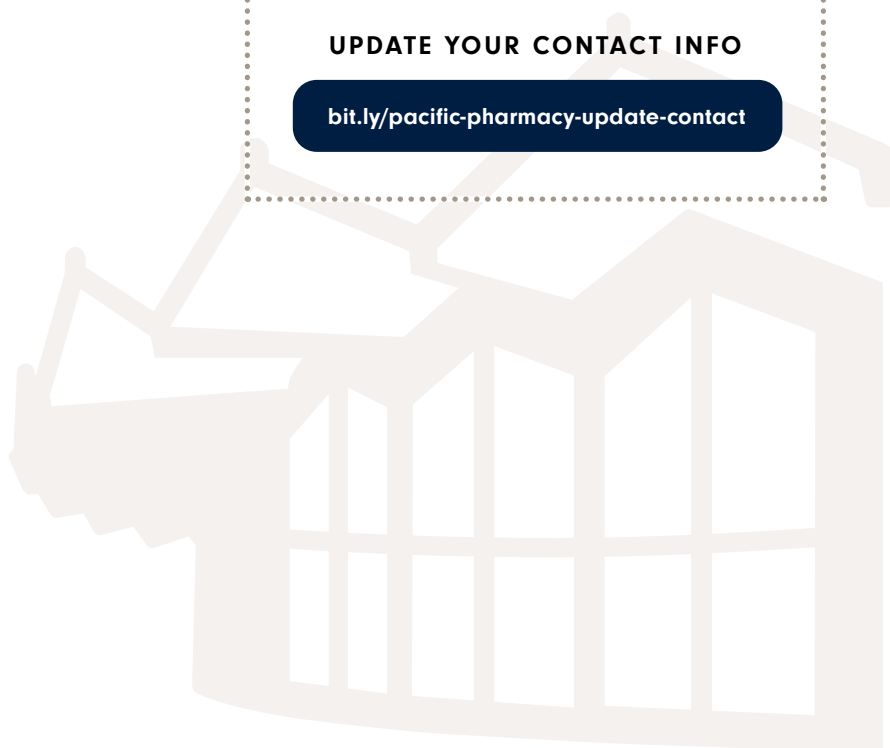
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Annual Report

THOMAS J. LONG SCHOOL OF PHARMACY
2023

PUBLISHED BY

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WELCOME MESSAGE

Reflecting on the achievements highlighted in this annual report, I see many examples of synergy. These examples show that through collaboration, we can achieve ambitious goals.

Research is a prime example of the synergy of knowledge and application. This year was a banner year for securing grant funding to support research and health care outreach. The teamwork on display in our research labs propels discoveries and scientific breakthroughs.

Our faculty and students work diligently to optimize patient outcomes. In these pages, we recognize our faculty, staff, alumni and community partners; the individuals whose unique skills, knowledge and perspectives create an inclusive, student-centered learning environment. In turn, our students impact the community.

In health care, a team-based approach is essential for providing holistic, patient-centered care. We prepare students to become effective communicators who understand the expertise they contribute to interdisciplinary teams.

It is an honor to work with talented, hardworking individuals who are dedicated to finding innovative solutions to complex health care challenges.

Sincerely,



Berit Gundersen '84, PharmD
Dean

\$3M

Over \$3 million in funding from grants to support research and health care outreach

2

NIH grants

\$809K

Awarded in scholarships to PharmD and PCSP students

186

Scholarships awarded to **178** PharmD and **8** PCSP students

185

Combined faculty and staff years of service

53

Faculty publications

Entrepreneurial Board of Governors

Robert Bagdasarian '74	Clark H. Gustafson '66	Robert Nickell '81
Gurpartap "Gary" Basrai '77	Brian Komoto	Jeff Sharkey
Jasmine Basrai	William Masotti '66	John Tilley

Industrial Advisory Board

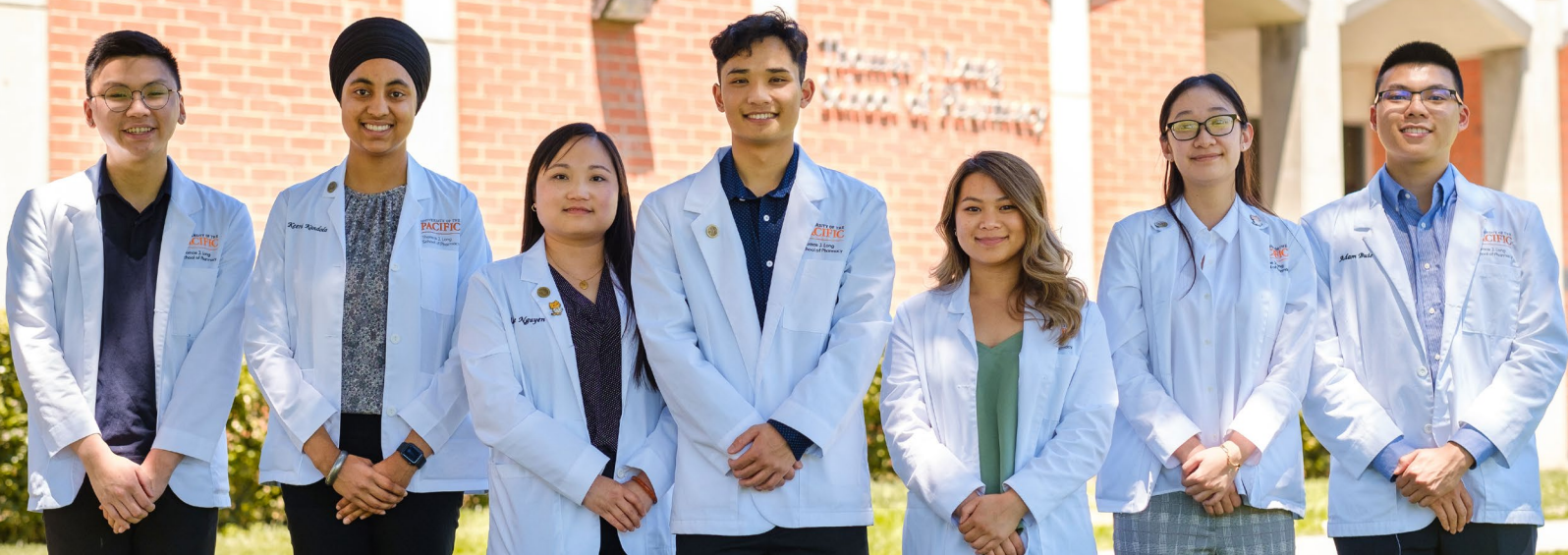
Kondamraj "Raj" Birudaraj '01	Stephen N. Kirnon	Cynthia Stevenson
Bret Berner	Norman H. Kobayashi '70, '73	Abraham U. Surjadinata '94
Simon Chin	Sreenivasu Mudumba '94, '10	Guo-Liang Yu
David Cippola	Rajesh A. Patel '87	Nurulain Zaveri
John E. Hearst	Pasit Phiasivongsa '98, '02	D. "Tony" Zhang
Bhaskara R. Jasti '95	Nirmal K. Saini	Mike Zhou
Ruhong Jiang	Michael J. Seminerioteva	
Brian Johnston	Scott Smith	

Jie Du Center for Innovation and Excellence for Drug Development Advisory Board

Christopher M. Cashman	Bhaskara R. Jasti '95	Miki Susanto Park
Sharon Clarke	Sara Kenkare-Mitra	Linda L. Norton '91
Jeffrey Cleland	Xiaoling Li	Atefeh Rabiee
Bhaskar Chaudhuri	Shichang Miao	Sanjeev Redkar

Pacific Pharmacy Alumni Association Board Members

Veronica T. Bandy '00, '08	Johanna Liu '09	Stacey Raff '96
Bianca Bradshaw '04	Tom Maez '85	Irene (Andrada) Solorio '15
Jeanne Gapac-Brady '93	Adam Morisoli '10	Catherine Grady Sterk '77, '78
Marisella Guerrero '98	April Nguyen '16	Jamie Tobitt '90
Annie Ho '12	Nam Nguyen '08	Jolena Tsai '15
Joseph "Joe" Jolliff '09	Jessica Ocegueda '20	James H. Wall '16
Peter Koo '92	Osagie Omoruyi '19	Edlen Wong '07



American Pharmacists Association

Operation Heart Award | National First Runner-up

California Pharmacists Association

Innovative Chapter of the Year

Student Pharmacists Quiz Bowl Competition | Second Place



Rifat A. Islam '24 was a recipient of the 2023 Research Recognition Award from the Cardiovascular Section of the American Physiological Society. She was recognized during the American Physiological Summit, April 20-23, in Long Beach.



Sean McNary '23, PharmD was named a recipient of the California Society of Health-System Pharmacists Student Leadership Award.



Nancy Y. Nghiem '24 was a recipient of the U.S. Public Health Service Excellence in Public Health Pharmacy Award.



Hao "Wendy" Wei '23 was awarded an American Association of Pharmaceutical Scientists Travelship supported by Merck to attend the PharmSci 360 meeting, Oct. 16-19, 2022, in Boston.



Nahid Sultana '23, PhD research assistant to **Jesika S. Faridi**, PhD, professor of physiology and pharmacology, presented "Targeting RRM2 for the treatment of palbociclib resistant breast cancer" at the San Antonio Breast Cancer Symposium, Dec. 6-10, 2022, in San Antonio, Texas. Sultana was also honored with special recognition by breast cancer patient advocates and the Guiding Researchers & Advocates to Scientific Partnerships.

Recruitment and enrollment update

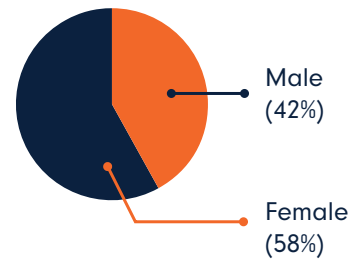
DOCTOR OF PHARMACY

CLASS OF 2025

Average GPA
3.25

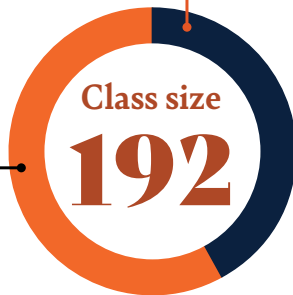
Average age
23
years old

Gender

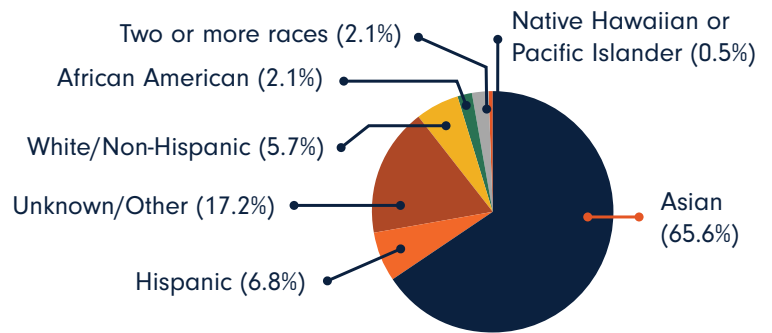


Pacific Pre-Pharmacy Advantage students (42%)

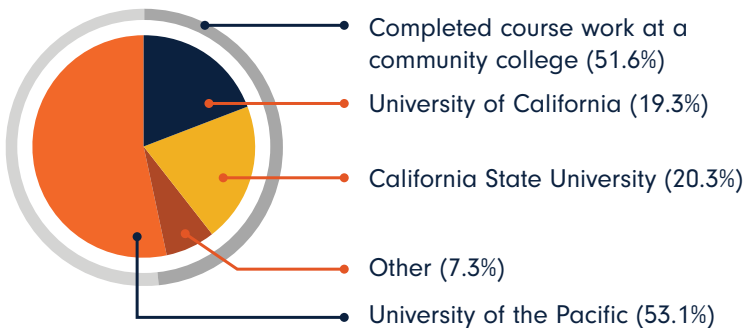
Transfer students (58%)



Ethnicity



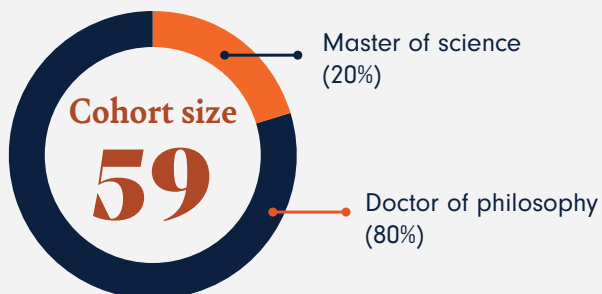
Prior institution



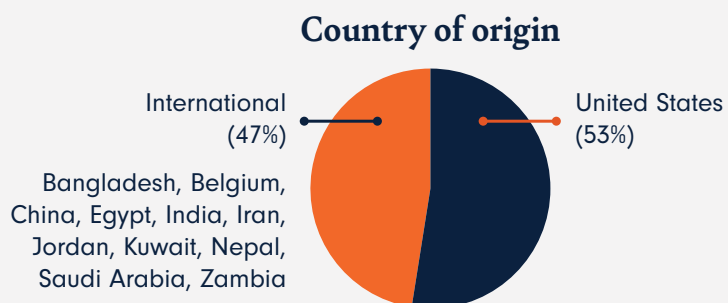
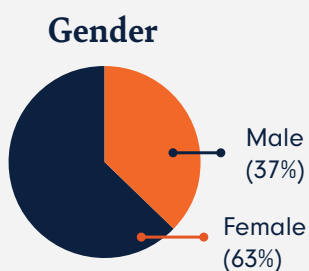
Top 5 schools

- University of the Pacific
- UC Davis
- CSU Sacramento
- UC Merced
- CSU East Bay

PHARMACEUTICAL AND CHEMICAL SCIENCES PROGRAM



13
Students completed their
undergraduate degree at Pacific



STUDENTS PER FOCUS AREA

18

Bioanalytical chemistry,
physical chemistry and
biochemistry

22

Biopharmaceutical sciences

7

Chemical synthesis, drug
discovery and design

4

Health care outcomes
and clinical services

8

Molecular-cellular
pharmacology and
toxicology



CLASS OF 2023

1

Master of Science in
Pharmaceutical and Chemical
Sciences graduate

5

Doctor of Philosophy in
Pharmaceutical and Chemical
Sciences graduates

158

Doctor of Pharmacy
graduates

#3

Third highest number of
students matching for PGY1
residencies in California

54

PGY1 matches
49 graduates, 5 alumni

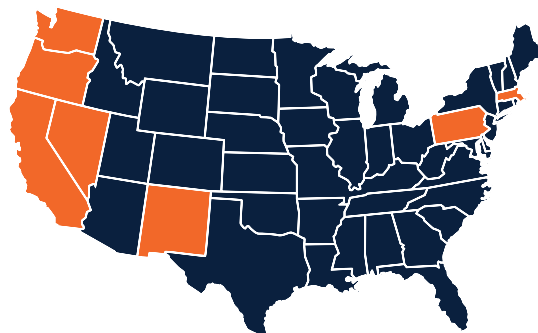
7

PGY2 matches

5

Industry fellowship
placements

Residencies took the Class of 2023 throughout
California and across the country



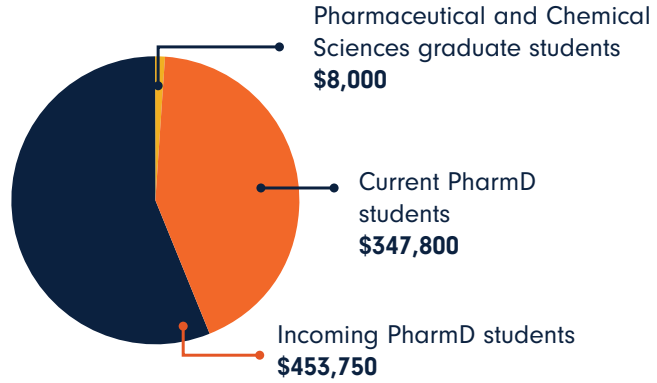
Scholarships

\$809,550

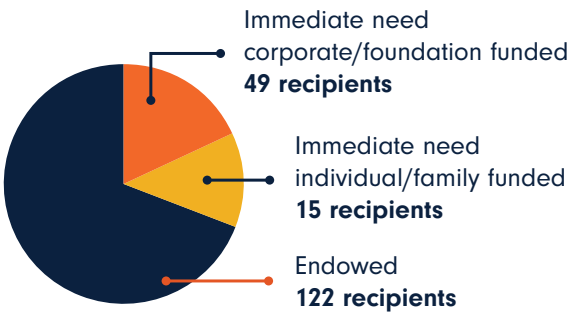
amount awarded

186

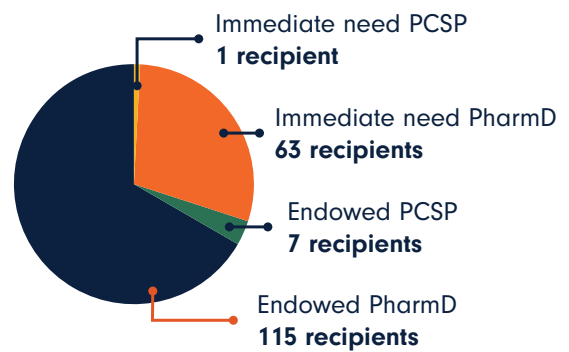
scholarships awarded



By type



Type by program

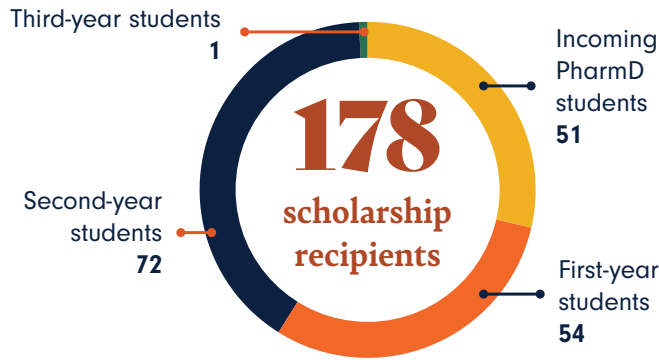




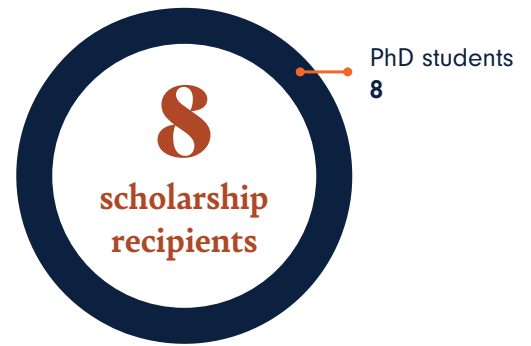
“I believe a strong support system can be a driving force to one’s success. The support from others can nurture our passions and provide the courage and confidence we need to take risks. Donors, thank you for your continued support.”

Heusny Sou '24

Doctor of Pharmacy scholarships



Pharmaceutical and Chemical Sciences Program scholarships



SUPPORT STUDENTS THROUGH SCHOLARSHIPS

Learn how you can contribute to or establish an endowed scholarship. Give today at bit.ly/supportpharmacy



Susan E. Webster
Senior Assistant Dean of Development
209.946.3116
swebster@pacific.edu

Community outreach



39

Events



2,591

Patients served



14,039

Hours volunteered

\$2.19M

Total potential Part D plan cost savings to beneficiaries assisted

\$1,382

Average out-of-pocket savings per beneficiary per annum

CLINICS AND PROGRAMS

Black Barbershop

Clinica Tepat

Diabetes Care Clinics

Diabetes Prevention Program

Medicare Part D Outreach Clinics

Valley Mountain Regional Center

Vietnamese Cancer Awareness, Research and Education Society



3,891

Screenings/services provided

Anemia

Blood pressure machine distribution

Blood pressure testing

Bone density testing

Cholesterol testing

Diabetes screening

Falls risk assessment

Glucometer distribution

Medication Therapy Management

Narcan distribution

Pharmaceutical program assistance/coupons

Sharp container distribution

Vaccines

Rx4Success

Pacific launched the first-of-its-kind three-week immersive preparation program for newly minted PharmD to prepare them for the state and national pharmacist licensure exams. Carefully selected alumni and pharmacists offered nearly 90 hours of intensive programming covering more than 40 topics.

3

Weeks

39

Speakers

40+

Topics

90+

Hours

130+

Attendees

PLANNING/STEERING COMMITTEE

Sian Carr-Lopez '85, PharmD

Rajul A. Patel '01, '06, PharmD, PhD

Jessica Song, PharmD

Berit Gundersen '84, PharmD

Adiyya Sabb

Jim Uchizono, PharmD, PhD

Mary Nakamura

Allen Shek, PharmD



“A program like Rx4Success, dedicated to reviewing what is important, and taught by a variety of pharmacists from various practice settings with helpful tools and clinical pearls, can provide a critical, necessary foundation for graduates as part of their overall testing preparation strategy.”

Tobi Knepler-Foss '17, PharmD

SPEAKERS

Emilia Abdollahian '22, PharmD
Preparing for CPJE and NAPLEX

Elena Andrada '22, PharmD
Preparing for CPJE and NAPLEX

Rajat Bansil, PharmD
HIV: Prevention, Monitoring and Diagnosis

Kymerli Buyer '18, PharmD
Over-the-Counter Therapy

Amy Clark '11, PharmD
Osteoporosis and Menopause

Patrick "Lewie" Deak '15, PharmD
Lifestyle, OTC - Eyes, Ears, Skin

Drew Dieckmann, PharmD
Pharmaceutical Calculations

Merry Doering, PharmD
Anemia and Thyroid

Le Du, PharmD
*Medication and Patient Safety
Quality Assurance and Improvement*

Jeremiah Duby, PharmD
*Biostatistics, Pharmacoeconomics,
Pharmacodynamics and
Pharmacokinetics*

Yesenia Gutierrez '21, PharmD
The Special in Specialty Medications

Katie Highsmith '12, PharmD
Oncology

Lauren Honda '00, PharmD
Compounding

Francisco Ibarra, PharmD
*Congestive Heart Failure, Arrhythmias,
Ischemic Heart Disease*

Michelle Ito '17, PharmD
Gastrointestinal Disorders

Jeff Joliff '04, PharmD
HIV Pharmacotherapy

Jay Joson '03, PharmD
Renal/Hepatic

Kelsey Kaku, PharmD, MBA
Emergency Preparedness

Adam M. Kaye '95, PharmD
Pain and Migraines

Rachel Khuc '21, PharmD
Toxicology, Antidotes and Anaphylaxis

Tobi Knepler-Foss '17, PharmD
*Insurance, Formularies, Medication
Affordability
Men's and Women's Health*

Kristen Lau '19, PharmD
Autoimmune Conditions and Gout

Megan Lauzon, PharmD
Critical Care

May C. Lui '06, '12, PharmD
Anticoagulation, ACS and Acute Stroke

Allison Mac '19, PharmD
Preparing for CPJE and NAPLEX

Kevin Maeda, PharmD
*Pharmacy Information Systems
and Technology*

Ava Mahan, PharmD
Labs and Monitoring

Valerie Ngo, PharmD
Inpatient Pharmacy Operations

Petrus Nguyen-Tu '20, PharmD
*Type 1 Diabetes, Labs and
Monitoring Devices*

Joshua Park, PharmD
*Every Bug, Every Drug, All at Once:
Exploring the Multiverse of Antibiotics,
Antivirals and Antifungals*

Susie Park, PharmD
Neuropsychiatry

Yi-Chih Peng '96, PharmD
IVs and Compatibilities

Neel Prasad '96, PharmD
*Community Practice Pharmacy
Operations*

Charina Ruiz, PharmD
Dyslipidemia and Hypertension

Irene (Andrada) Solorio '15, PharmD
Community Pharmacy Operations I

Jessica Song, PharmD
Pharmacogenomics

Elisa Spitzer '17, PharmD
IVs and Compatibilities

Emily Tong '12, PharmD
*Insurance, Formularies, Medication
Affordability*

Kevin Tran, PharmD
Infectious Disease II



“

“It’s been a great experience. All the lecturers have been knowledgeable, providing good clinical pearls and examples from their clinical practice to illustrate and bring to life this great review.”

Sean McNary '23, PharmD

Milana Vachuska '18, PharmD
Type 2 Diabetes

Mark Walberg '06, '09, PharmD, PhD
*Pulmonary Review
SB 493 Elective Protocols
Immunizations and Travel Health*

Fred Weissman, PharmD, JD
California Pharmacy Law Review 2023

Alyssa Wu '13, PharmD
Pediatrics

Faculty recognition



Pharmacy Teacher of the Year

Carly A. Ranson '13, '17, PharmD, MS, BCGP

Associate Professor
Director of Pharmacy
Co-curricular Programming



Runner-Up Pharmacy Teacher of the Year

William K. Chan, PharmD, PhD

Professor
Chair, Department of Pharmaceutics
and Medicinal Chemistry



Regional Coordinator of the Year

Yong S. K. Moon, PharmD

Associate Professor
Regional Coordinator -
Los Angeles/Long Beach

PRECEPTORS OF THE YEAR

Introductory Pharmacy Practice Experience

Catherine Lo '98, PharmD
Community

Tobi Knepler-Foss '17, PharmD
Health Care Outreach

Kelsea Kerr '03, PharmD
Hospital

Advanced Pharmacy Practice Experience

Jeremiah "Jay" Joston '03, PharmD,
APh, BCPS, BCMTMS
Bakersfield

Amir A. Haddad, PharmD, MBA, BCPS
Monterey

Emily Garduno, PharmD, BCPS
San Francisco

Jeffrey McCamish, PharmD
Fresno

Michael Xu '18, PharmD, MBA, BCPS
Palo Alto

Kristine Zhang, PharmD
San Jose

Tim Dang, PharmD
Inland Empire

Duong Nishiguchi '12, PharmD, BCPS,
BCCCP
Redding

Ryan Russell, BPharm
Santa Barbara

J.J. "Jonathan" Way, PharmD
LA/Long Beach

Eddie Hosier '15, PharmD, BCPS, BCSCP
Sacramento

Andrea Hinton, PharmD, FCSHP
Stockton

Tammy Tang, PharmD, BCCCP
LA/San Fernando Valley

Kayla Giang, PharmD, MS, BCPS,
BCCP, BCCCP
San Diego

Sharon Fung '20, PharmD
Travis

Laura Kawamoto '10, PharmD
Modesto/East Bay/Sonora

Distinguished Service Award

Jennifer Branch, PharmD
Sacramento

YEARS OF SERVICE

40

Veronica Semler, director of pharmacy admission, Office of Pharmacy Admission

25

Lynda Davis, administrative assistant II, Department of Pharmaceutics and Medicinal Chemistry

20

Veronica T. Bandy '00, '08, PharmD, MS, FCPHA, FCSHP, BCACP, clinical professor and regional coordinator for Sacramento, Department of Pharmacy Practice

Kimberly Hoffmann '89, PharmD, clinical professor and regional coordinator for Bakersfield, Department of Pharmacy Practice

Myo-Kyoung Kim, PharmD, EdD, BCPS, APh, associate professor, Department of Pharmacy Practice

15

Sachin A. Shah, PharmD, FACC, FAHA, professor and regional coordinator for Travis, Department of Pharmacy Practice

10

Ellie Benton, evaluation specialist, Office of Pharmacy Admission

David W. Collum, MSP, RPh, assistant professor, Department of Pharmacy Practice

5

Marie Scott, PharmD, clinical professor, Department of Pharmacy Practice

Lexie Gonzales, business support specialist I, Office of Professional Programs

Marisella Guerrero '98, PharmD, associate clinical professor, Department of Pharmacy Practice

Alan Kersey '92, PharmD, assistant clinical professor, Department of Pharmacy Practice



Veronica Semler



Lynda Davis

NEW FACES, PROMOTIONS AND TENURES

July 1, 2022 – June 30, 2023

Melanie A. Felmlee, PhD, was promoted to director of pre-pharmacy, Office of Undergraduate Programs.

Javier Franco '19 was hired as tech support specialist II, lead, Office of Support Services.

Sonia Garcia was promoted to experiential education outreach coordinator, Office of Professional Programs.

Marisella Guerrero '98, PharmD was promoted to associate clinical professor, Department of Pharmacy Practice.

Vista Khosraviani, PharmD, APh was hired as associate clinical professor, Department of Pharmacy Practice.

Christine Lee was promoted to business specialist, Office of the Dean.

Lucy Machado-Curran was hired as administrative assistant II, Office of Academic Affairs.

Sara Fouad Mahmoud, PharmD, BCCCP was hired as assistant clinical professor, Department of Pharmacy Practice.

David F. Malewski, PharmD, PhD was hired as director of assessment and accreditation, Office of Academic Affairs.

Anayeli Morales '15 was hired as program specialist, Diabetes Patient Care Clinics.

Maria Orosco '20 was promoted to coordinator for student affairs and admission events, Office of Student Affairs and Admission.

Laura R. Perez was hired as clinic coordinator, Diabetes Patient Care Clinics.

Carly A. Ranson '13, '17, PharmD, MS, BCGP was promoted to associate professor with tenure, Department of Pharmacy Practice.

Marcus C. Ravnar '94, PharmD, FCSHP, FASHP transitioned to associate dean, Office of Undergraduate Programs.

Adiyya N. Sabb was hired as administrative assistant III, Office of the Dean.

Marie Scott, PharmD was promoted to clinical professor, Department of Pharmacy Practice.

Eric Shepherd was promoted to assistant dean of finance and operations, Office of the Dean.

Ranjit "Rolly" Kali-Rai '92, PharmD, MBA, CPPS was hired as associate clinical professor, Department of Pharmacy Practice.

Jessica Song, PharmD, FCSHP was hired as professor and chair, Department of Pharmacy Practice, and was awarded tenure.

James Stack '17, '22, EdD was promoted to professional school database and system administrator, Office of Student Affairs and Admission.

Jim Uchizono, PharmD, PhD transitioned to associate dean, Office of Student Affairs and Admission.

Susan E. Webster was promoted to senior assistant dean of development, Office of the Dean.

Sarah E. Wong '21, PharmD was hired as assistant clinical professor, Diabetes Patient Care Clinics.

Lisa Zamora was hired as administrative assistant III, Department of Pharmacy Practice.

Tiger Stripes

JULY 1, 2022 - JUNE 30, 2023

Our faculty and staff are constantly earning their stripes on campus, across the country and around the world.

GRANTS

\$572K

to address diabetes in our community

Rajul Arvind Patel '01, '06, PharmD, PhD, professor of pharmacy practice and director of patient care clinics, on behalf of the Diabetes Care Clinics, received a \$552,500 grant from the Abbott Foundation. This funding supports community-based health fairs and creation of Diabetes Prevention Program offerings in multiple locations in high-priority neighborhoods.

The School received a \$20,000 innovation track scholarship from the National Association of Chain Drug Stores Foundation. The scholarship application was prepared by Dr. Patel, **Carly A. Ranson '13, '17**, PharmD, MS, BCGP, associate professor of pharmacy practice and director of pharmacy co-curricular programming, and **Nareeta Sharma '18, '21**, PharmD, MS, assistant clinical professor of pharmacy practice. The scholarship will support health fairs where Pacific PharmD students will provide services and education for diabetes care and prevention minority and underserved groups the community.

\$115K

grant awarded by
Human Services Agency

Dr. Patel received a \$115,163 intergenerational grant from the Human Services Agency.

\$58K

to support Medicare Part D
Outreach Clinics

Dr. Patel received a \$48,343 Title IIID- Health Promotion grant from the Human Services Agency and a \$10,494 grant from the San Joaquin County Aging and Community Services to support the Medicare Part D Outreach Clinics.

Dr. Patel, Dr. Ranson and Dr. Sharma, in collaboration with Pacific's master of social work program, received a \$30,000 grant from County of San Joaquin to provide in-home services.

Pacific received a \$2.5 million grant from the State of California to support underrepresented students pursuing careers in health care. The funding will be used to expand collaboration among the School of Health Sciences, Arthur A. Dugoni School of Dentistry and Thomas J. Long School of Pharmacy.

WE WANT TO HIGHLIGHT YOUR ACCOMPLISHMENTS

Did you recently publish an article in a peer-reviewed journal? Will you be presenting at an upcoming conference?

Faculty, preceptors, students and alumni are invited to submit.

pacific-pharmacy.org/tiger-stripes

Sachin A. Shah, PharmD, FACC, FAHA, professor of pharmacy practice and regional coordinator for Travis, on behalf of the Innovative Clinical and Outcomes Research team, received a \$40,000 gift from IN-Ingredients to support clinical trials conducted by students and faculty at Pacific.

Deepti Vyas, PharmD, professor of pharmacy practice and director of interprofessional education and instructional design, Long Wang, PhD, clinical professor and program director for master of science in clinical nutrition, **Suzanne Galal**, PharmD, professor of pharmacy practice, et al. received a \$24,418 grant from University of the Pacific's Office of Sponsored Programs for the proposal "Sustained Effect of an Interprofessional Intervention on Diabetes Related Outcomes in Latino Patients."



The Lipedema Foundation purchased a RESIPHER for the research laboratory of **Atefeh Rabiee**, PhD, assistant professor of physiology and pharmacology. This \$15,000 instrument measures the respiration level of live cells in culture and is critical for Dr. Rabiee's ongoing research on Lipedema disease.

Dr. Vyas, Michelle Brady, DDS, assistant professor of clinical oral health, Kris Himmerick, PhD, PA-C, director of assessment, accreditation and sponsored projects, Tracey DelNero, MSPAS, PA-C, DFAAPA, clinical professor and program director for physician assistant studies, and Eric Waldon, PhD, MT-BC, associate professor and program director for music therapy, received a grant from University of the Pacific Office of Sponsored Programs for the proposal "Building a Justice, Equity, Diversity, and Inclusion (JEDI) Toolkit Utilizing Art, Music, and Literature to Train Health Professional Students in Health Inequities."

Dr. Patel received a \$33,000 grant from Legacy Health Endowment, which funded 10 scholarships for students to attend the 2023 Pacific Summer High School Institute - Future Pharmacists program.

Pacific invests **\$140K** in faculty research

Our faculty received nine grants from University of the Pacific's Office of the Graduate Education and Research. This internal support will allow faculty to seek external funding for these projects in the future.

Mamoun M. Alhamadsheh, PhD, professor of pharmaceuticals and medicinal chemistry, received a \$20,000 grant for the proposal "A novel drug delivery system for targeting prostate cancer."

Jesika S. Faridi, PhD, professor of physiology and pharmacology, received a \$6,000 grant for the proposal "The potential of RRM2 inhibition to treat Palbociclib resistant breast cancers."

Xin Guo, PhD, professor of pharmaceuticals and medicinal chemistry, received a \$20,000 grant for the proposal "Synchronizing the Distribution and Release of Two Drugs by Liposome for Synergistic Activities against Lung Cancer."

Miki S. Park, PhD, professor of pharmaceuticals and medicinal chemistry, received a \$20,000 grant for the proposal "PK Studies of TTR-based PAMORAs."

Roshanak Rahimian, PharmD, PhD, professor of physiology and pharmacology, received a \$20,000 grant for the proposal "Biological sex, Exercise and Vascular function in Diabetes."

Wade A. Russu, PhD, associate professor of pharmaceuticals and medicinal chemistry, received a \$13,000 grant for the proposal "Investigating E2F1 reactivation by inhibiting CDK8 in MDA-MB-468 breast cancer cells."

Rajkumar Sevak, PhD, RPh, assistant professor of pharmacy practice, received a \$10,000 grant for the proposal "Development of a Training Program and Screenings in Mental Health for San Joaquin County Residents."

Dr. Shah received a \$18,000 grant for the proposal "Impact of Nelumbo nucifera on Endothelial Function: A Pilot Clinical Trial."

David W. Thomas, PhD, associate professor of physiology and pharmacology, received a \$13,000 grant for the proposal "Targeting endoplasmic reticulum (ER) Ca pumps to preserve T cell signaling functions."

\$1.7 MILLION R01 NIH GRANT

supports research of opioid antidote

Mamoun M. Alhamadsheh, PhD, professor of pharmaceuticals and medicinal chemistry, received a \$1.7 million R01 grant from the National Institutes of Health (NIH) to study a more potent and longer lasting antidote for opioid overdoses.

"An R01 is the toughest NIH grant to get and the most prestigious among all NIH grants UOP has received," said William K. Chan, PharmD, PhD, professor and chair of the Department of Pharmaceuticals and Medicinal Chemistry.

With a team of graduate students, Dr. Alhamadsheh is working to discover a stronger opioid antidote. The research is urgently needed. Illicit synthetic opioids, such as fentanyl, account for about two thirds of drug overdose deaths in the United States.

"Current antidotes are not very effective with synthetic opioids because the opioids stay in the body much longer than the antidotes, which causes people to relapse and stop breathing again," said Dr. Alhamadsheh. "That's why many patients may require multiple doses of the antidote after the initial rescue."

Hala Aldawod '24 provided the majority of the preliminary data using a novel drug delivery approach previously discovered by Dr. Alhamadsheh. Aldawod optimized the technology to counter overdoses by designing a new molecule

that stays in the body and releases the antidote slowly rather than all at once.

"The significance of this finding is tremendous. This is the first time someone has increased the half-life of naloxone, while maintaining its full efficacy. The beauty of our approach is that we are empowering drugs that are already approved by the FDA," Dr. Alhamadsheh said.

The team is currently optimizing the technology in preparation of clinical trials.

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"The significance of this finding is tremendous. This is the first time someone has increased the half-life of naloxone, while maintaining its full efficacy."

Mamoun M. Alhamadsheh, PhD

Left to right: **Md Tariqul Haque Tuhin '22**, PhD, **Rasha Emara '24**, **Denganpan Liang '22**, PhD, **Mamoun M. Alhamadsheh**, PhD, **Arjun Patel '24**, **Avishan Kiani '27**, **Hala Aldawod '24**



NIH GRANT FURTHERS RESEARCH

into interaction between proteins

\$364K

R21 NIH grant

Carlos A. Villalba-Galea, PhD, associate professor of physiology and pharmacology, received a \$364,250 R21 National Institutes of Health grant to investigate the interaction of three proteins involved in electrical signaling in neurons and the heart.

Every cell in the body has electrical activity and specialized proteins turn the electrical signals on and off. When these proteins are mutated or have been deleted from the genome, hyperactive electrical activity can ensue, resulting in arrhythmias, epilepsy or pain. Dr. Villalba-Galea's research is focused on the proteins Kv7.1, NaVβ1 and KCNE1, which are found in the brain and the heart and are essential for modulating electrical activity in those organs.

The NaVβ1 protein regulates the activity responsible for initiating fast electrical signals. This bioelectrical activity can be described as neuronal and cardiac "spikes." Following the onset of spikes,

proteins like Kv7.1 terminate these types of electrical signals. Kv7.1 plays an important role in the cycle of electrical signals behind every heartbeat. The way these proteins behave was thought to be separate processes, but Dr. Villalba-Galea's research demonstrates there is an interplay between these proteins. This research shows that, unexpectedly, NaVβ1 shuts down Kv7.1 when KCNE1 is absent. This led to the proposal that KCNE1 shields Kv7.1 from the inhibitory action of NaVβ1.

"Our novel finding constitutes a shift in our understanding of how mutations in KCNE1 can affect cellular electrical signaling," said Dr. Villalba-Galea.

He explains that to develop effective, targeted treatments for complex diseases we must first gain a deeper understanding of human physiology at a cellular level.

Dr. Villalba-Galea is assisted by **Moses Kamwela '26**, who is pursuing his doctor of philosophy in molecular-cellular physiology and pharmacology.



PRESENTATIONS

Pharmacy Practice

Marisella Guerrero '98, PharmD*Associate Clinical Professor*

Dr. Guerrero presented "A Conversation with Dr. Marisella Guerrero: Health Disparities in the Latino Community" at the Center for Identity and Inclusion, Oct. 12, 2022, in Stockton.

Adam M. Kaye '95, PharmD, FASCP, FCPA*Clinical Professor, Coordinator Community I, Introductory Pharmacy Practice Experience Program*

Dr. A.M. Kaye et al. presented "Opioid Pharmacology, Interactions, and Side Effects: Practical Applications," "Role of Antipyretics, Analgesics, Antidepressants, and Anticonvulsants in Pain Medicine" and "Controlled Substance Pharmacology: Non-Opioids, Benzodiazepines, Sedatives, and Hypnotics - The Relevance to Pain Physicians" at the American Society of Interventional Pain Physicians Controlled Substance Management in IPM: Current Concepts virtual review course, Jan. 28, 2023.

Dr. A.M. Kaye and Dr. Patel presented "Opioids Primer" at the Department of Psychiatry San Joaquin County Behavioral Health Service, July 28, 2022, in Stockton.

Cynthia Lee '19, PharmD, MS, BCPS*Assistant Clinical Professor*

Aaron Yee '21, PharmD, Dr. Lee, Raneeta Sharma '22, PharmD, Yvonne Mai '13, '15, PharmD, MS, BCGP, BCACP, associate professor of pharmacy practice and regional coordinator for Stockton, et al. presented "Evaluation of a Fixed-Dose 4-Factor Prothrombin Complex Concentrate Protocol" at the California Society of Health-System Pharmacists (CSHP) Seminar, Nov. 9-13, 2022, in Anaheim.

Yvonne Mai '13, '15, PharmD, MS, BCGP, BCACP*Associate Professor, Regional Coordinator - Stockton*

Vincent Lu '21, PharmD, Jocelyn G. Cheung '22, PharmD, Adam Aboubakare '22, PharmD and Dr. Mai presented "Pharmacist Impact on Health Care Costs and Clinical Outcomes in an Interdisciplinary Geriatric Clinic" at the 2022 CSHP Seminar.

Rajkumar Sevak, PhD, RPh*Assistant Professor*

Dr. Sevak et al. presented "Non-medical use of prescription stimulants and nicotine among community college students" at the 2022 CSHP Seminar.

Dr. Sevak, **Yong S.K. Moon, PharmD,** associate professor of pharmacy practice and regional coordinator for LA/Long Beach, et al. presented "Effects of COVID-19 Vaccination

and COVID-19 Complication Risk Score on COVID-19 Related Hospitalization and Mortality of Veterans" at the 2022 CSHP Seminar.

Dr. Sevak, **Allison Mac '19, PharmD, BCPS, Mark Stackpole, MA, EdD,** director of the Office of Academic Success and Instructional Support, and **Myo-Kyoung Kim, PharmD, EdD, BCPS, APh,** associate professor of pharmacy practice, presented "Sensory processing sensitivity and perceived stress in pharmacy students during transitions in learning environment" at the 2022 CSHP Seminar.

Dr. Sevak et al. presented "Motives for non-medical use of prescription stimulants among community college students" at the 2022 CSHP Seminar.

Physiology and Pharmacology

Robert F. Halliwell, PhD*Professor*

Dr. Halliwell, **Evan Cheng '24** and **Natalie Chen '24** presented "Sleeping Your Way to a Healthy and Happy Life" at O'Connor Woods Senior Assisted Living Center, March 20, 2023, in Stockton.

Dr. Halliwell and **Hamed Salmanzadeh-Dozdabi '23, PhD** presented "Human Stem Cell-derived Neurons in Long-term Cell Culture as a Model for Antiseizure Drug Discovery" at the New York Stem Cell Foundation meeting, Oct. 18-19, 2022, in New York City.

Dr. Halliwell presented "How to Keep a Healthy Brain Without Really Trying" for the American Association of University Women, Sept. 1, 2022, in Lodi.



Vista Khosraviani, PharmD, APh, associate clinical professor of pharmacy practice, was selected to serve as a member of American Society of Health-System Pharmacists' Section of Pharmacy Educators Executive Committee.

PUBLICATIONS

Pharmacy Practice

Eric G. Boyce, PharmD*Professor*

Dr. Boyce et al. published "2020 rankings for US PharmD programs, research, and overall quality" in *Exploratory Research in Clinical and Social Pharmacy*, September 2022.

D. Boyce, **Edward L. Rogan**, PharmD, BCACP, FCPHA, associate professor of pharmacy practice, and **May C. Lui '16, '19**, PharmD, MS, BCPS published "Upadacitinib for the Treatment of Rheumatoid Arthritis: An Extensive Review" in *Annals of Pharmacotherapy*, April 2023.



Clifford A. Young, RPh, CGP, FCPHA, FAWM, associate clinical professor of pharmacy practice and regional coordinator for Fresno, published "You Are a Business - What I Didn't Learn in Pharmacy School."

S. Lena Kang-Birken, PharmD, FCCP, AAHIVP*Associate Professor, Regional Coordinator - Santa Barbara/Ventura*

Sarah M. Halcomb '14, PharmD, Dr. Kang-Birken et al. published "Impact of a pharmacy department-wide transitions-of-care program on inappropriate oral antibiotic prescribing at hospital discharge" in *Antimicrobial Stewardship & Healthcare Epidemiology*, Nov. 16, 2022.

Dr. Kang-Birken, **Elaine Law**, PharmD, BCPS, FCSHP, associate clinical professor of pharmacy practice and regional coordinator for San Jose, Dr. Moon, **Audrey J. Lee**, PharmD, BCPS, FCSHP, professor of pharmacy practice and regional coordinator for San Francisco, **Andrew L. Haydon '12**, PharmD, associate clinical professor of pharmacy practice and director of professional programs, and **Allen Shek**, PharmD, professor of pharmacy practice and associate dean

of professional programs, published "Assessing Preceptor and Student Perceptions of Remote Advanced Pharmacy Practice Experience Learning during the COVID-19 Pandemic" in *Pharmacy*, Aug. 25, 2022.

Suzanne Galal, PharmD*Professor*

Dr. Galal, PharmD, Dr. Vyas, John Mayberry, PhD, associate professor of mathematics, **Claire Caringal '21**, PharmD, **Vy Bui '21**, PharmD, Dr. Rogan et al. published "Training pharmacy students to deliver bad news using the SPIKES model" in *Currents in Pharmacy Teaching and Learning*, April 7, 2023.

Adam M. Kaye '95, PharmD, FASCP, FCPHA*Clinical Professor, Coordinator Community I, Introductory Pharmacy Practice Experience Program*

Dr. A.M. Kaye et al. published "The Emerging Role of Ketamine in Acute Postoperative Pain Management" in *Current Pain and Headache Reports*, June 28, 2023.

Dr. A.M. Kaye et al. published "Proton Pump Inhibitors, Kidney Damage, and Mortality: An Updated Narrative Review" in *Advances in Therapy*, May 4, 2023.

Dr. A.M. Kaye et al. published "Treatment of Acute Pain in Patients on Naltrexone: A Narrative Review" in *Current Pain and Headache Reports*, April 28, 2023.

Dr. A.M. Kaye et al. published "Low-Dose Initiation of Buprenorphine: A Narrative Review" in *Current Pain and Headache Reports*, April 21, 2023.

Dr. A.M. Kaye et al. published "The Use of Oxytocin for the Treatment of Opioid Use Disorder" in *Current Pain and Headache Reports*, April 6, 2023.

Dr. A.M. Kaye et al. published "Tocilizumab for Severe COVID-19 Infection and Multisystem Inflammatory Syndrome in Adults and Children" in *Life*, March 27, 2023.

Dr. A.M. Kaye et al. published "Non-steroidal Anti-inflammatory Drugs: Clinical Implications, Renal Impairment Risks, and AKI" in *Advances in Therapy*, March 22, 2023.

Dr. A.M. Kaye et al. published "Chronic Administration of Melatonin: Physiological and Clinical Considerations" in *Neurology International*, March 15, 2023.

Dr. A.M. Kaye et al. published "Transcranial Stimulation for the Treatment of Stimulant Use Disorder" in *Neurology International*, Feb. 27, 2023.

Dr. A.M. Kaye et al. published "New Synthetic Opioids: Clinical Considerations and Dangers" in *Pain and Therapy*, Feb. 24, 2023.

Dr. A.M. Kaye et al. published "Tetracycline-, Doxycycline-, Minocycline-Induced Pseudotumor Cerebri and Esophageal Perforation" in *Advances in Therapy*, Feb. 10, 2023.

Dr. A.M. Kaye et al. published "Suvorexant, a Novel Dual Orexin Receptor Antagonist, for the Management of Insomnia" in *Health Psychology Research*, Jan. 28, 2023.

Dr. A.M. Kaye et al. published "Review of Interventional Therapies for Refractory Pediatric Migraine" in *Health Psychology Research*, Jan. 28, 2023.

Dr. A.M. Kaye et al. published "Brivaracetam to Treat Partial Onset Seizures in Adults" published in *Health Psychology Research*, Jan. 28, 2023.

Dr. A.M. Kaye et al. published "Clinically Relevant Drug Interactions with Monoamine Oxidase Inhibitors" in *Health Psychology Research*, Nov. 3, 2022.

Dr. A.M. Kaye et al. published "Phenothiazines and their Evolving Roles in Clinical Practice: A Narrative Review" in *Health Psychology Research*, Nov. 3, 2022.

Dr. A.M. Kaye et al. published "Selective Serotonin Reuptake Inhibitors and Associated Bleeding Risks: A Narrative and Clinical Review" in *Health Psychology Research*, Nov. 3, 2022.

Dr. A.M. Kaye et al. published "Rimegepant for the treatment of migraine" in *Health Psychology Research*, Oct. 12, 2022.

Dr. A.M. Kaye, **Jessica S. Kaye '22**, PharmD et al. published "Midazolam nasal spray to treat intermittent, stereotypic episodes of frequent seizure activity: pharmacology and clinical role, a comprehensive review" in *Health Psychology Research*, Oct. 12, 2022.

Dr. A.M. Kaye et al. published "Historical Pathways for Opioid Addiction, Withdrawal with Traditional and Alternative Treatment Options with Ketamine, Cannabinoids, and Noribogaine: A Narrative Review" in *Health Psychology Research*, Oct. 7, 2022.

Dr. A.M. Kaye et al. published "Historical Pathways for Opioid Addiction, Withdrawal with Traditional and Alternative Treatment Options with Ketamine, Cannabinoids, and Noribogaine: A Narrative Review" in *Health Psychology Research*, Oct. 6, 2022.

Dr. A.M. Kaye et al. published "Methamphetamine Use: A Narrative Review of Adverse Effects and Related Toxicities" in *Health Psychology Research*, Sept. 14, 2022.

Dr. A.M. Kaye et al. published "Novel Designer Benzodiazepines: Comprehensive Review of Evolving Clinical and Adverse Effects" in *Neurology International*, Aug. 22, 2022.

Dr. A.M. Kaye et al. published "Buprenorphine and its formulations: a comprehensive review" in *Health Psychology Research*, Aug. 20, 2022.



Jenana Maker, PharmD, BCPS, professor of pharmacy practice, received a commendation from the American College of Clinical Pharmacy for her editorial contributions in the Infectious Diseases Self-Assessment Program.

Dr. A.M. Kaye et al. published "Aduhelm, a novel anti-amyloid monoclonal antibody, for the treatment of Alzheimer's Disease: A comprehensive review" in *Health Psychology Research*, July 28, 2022.

Dr. A.M. Kaye et al. published "Viloxazine, a Non-stimulant Norepinephrine Reuptake Inhibitor, for the Treatment of Attention Deficit Hyperactivity Disorder: A 3 Year Update" in *Health Psychology Research*, July 28, 2022.

Dr. A.M. Kaye et al. published "Prescription Stimulants in College and Medical Students: A Narrative Review of Misuse, Cognitive Impact, and Adverse Effects" in *Psychiatry International*, July 22, 2022.

Dr. A.M. Kaye et al. published "Deutetrabenazine for the treatment of chorea associated with Huntington's disease" in *Health Psychology Research*, June 28, 2022.

Dr. A.M. Kaye et al. published "Glossopharyngeal Neuralgia: Epidemiology, Risk factors, Pathophysiology, Differential diagnosis, and Treatment Options" in *Health Psychology Research*, June 28, 2022.

Dr. A.M. Kaye et al. "Opicapone, a Novel Catechol-O-methyl Transferase Inhibitor, for Treatment of Parkinson's Disease 'Off' Episodes" in *Health Psychology Research*, June 28, 2022.

Dr. A.M. Kaye et al. published "Pitolisant, a novel histamine-3 receptor competitive antagonist, and inverse agonist, in the treatment of excessive daytime sleepiness in adult patients with narcolepsy" in *Health Psychology Research*, May 30, 2022.

Dr. A.M. Kaye et al. published "Combination Olanzapine and Samidorphan for the Management of Schizophrenia and Bipolar 1 Disorder in Adults: A Narrative Review" in *Health Psychology Research*, April 25, 2022.



Caroline L. Ko, PharmD, BCPS, BCCCP, associate clinical professor of pharmacy practice, is the 2023-24 president-elect of the Phi Lambda Sigma national board of directors.

Caroline L. Ko, PharmD, BCPS, BCCCP

Associate Clinical Professor

Dr. Ko et al. published "Academic Activism: An Avenue to Action" in *American Journal of Pharmaceutical Education*, June 2023.

Elaine Law, PharmD, BCPS

Associate Clinical Professor, Regional Coordinator - Palo Alto

Dr. Law co-authored Chapter 23: Upper Gastrointestinal Disorders in "Applied Therapeutics the Clinical Use of Drugs," Jan. 23, 2023.

Dharma Naidu '93, PharmD, BCOP, APh

Assistant Clinical Professor, Regional Coordinator - Monterey

Dr. Naidu et al. published "Society of Pain and Palliative Care Pharmacists White Paper on the Role of Opioid Stewardship Pharmacists" in *Journal of Pain and Palliative Care Pharmacotherapy*, March 2023.

Rajkumar Sevak, PhD, RPh

Assistant Professor

Dr. Sevak, **Celine Chandler '23**, PharmD, Dr. Lui, Dr. A.M. Kaye, Dr. Halliwell and Dr. Rogan, published "Impact of a neuropsychiatric therapeutics course and a case-based course on pharmacy students' mental-health stigma" in *American Journal of Pharmaceutical Education*, May 15, 2023.

Dr. Sevak, **Anh B. Nguyen '21**, PharmD, **Simran Randhawa '21**, PharmD and **Kate M. O'Dell**, PharmD, BCPS, professor pharmacy practice, published "Variables affecting pharmacy students' pursuit and attainment of postgraduate residency and fellowship positions" in *Currents in Pharmacy Teaching and Learning*, Sept. 15, 2022.

Dr. Sevak et al. published "Nonmedical use of prescription stimulants and nicotine among community college students" in *Community College Review*.

Sachin A. Shah, PharmD, FACC, FAHA

Professor, Regional Coordinator - Travis

Katherine Hsu '21, PharmD, **Kimmy Dovan '22**, PharmD, Dr. Shah, et al. published "Pearls for First-Time Authors Publishing in a Top-Tier Medical Journal" in *Journal of Contemporary Pharmacy Practice*, June 22, 2023.

Colin Dimond, PharmD, fellow, Dr. Dovan, Dr. Shah, **Brandon Tran '21**, PharmD, **Kevin Pham '20**, PharmD, fellow, Dr. Hsu, **Nancy N. Nguyen**, PharmD, BCPS, AAHIVP, FCSHP, clinical professor of pharmacy practice and regional coordinator for Palo Alto, and Dr. O'Dell published "Effect of Nelumbo Nucifera Extract on Anxiety Symptoms in Individuals With Moderate to Severe Anxiety: An Exploratory Study" in *Journal of Contemporary Pharmacy Practice*, June 22, 2023.

Deepti Vyas, PharmD

Professor, Director of Interprofessional Education and Instructional Design

Dr. Vyas, DelNero, and Benjamin Reece '01, '08, '20, EdD, CCC-SLP, clinical instructor of speech-language pathology, published "Impact of an Interprofessional Education Activity on Student Knowledge and Attitudes Regarding Patient Safety" in *Pharmacy*, March 24, 2023.

Dr. Vyas et al. published "Revising the Center for the Advancement of Pharmacy Education (CAPE) Educational Outcomes and Entrustable Professional Activities (EPAs): The Report of the 2021-2022 Academic Affairs Standing Committee" in *American Journal of Pharmaceutical Education*, Jan. 1, 2023.



Jim Uchizono, PharmD, PhD, professor of pharmaceuticals and medicinal chemistry and associate dean of student affairs and admission, was selected to serve on the 2023-24 national PharmCAS Advisory Committee.



Bhaskara R. Jasti '95, MPharm, PhD, FAAPS, professor of pharmaceuticals and medicinal chemistry, was a recipient of a Pacific Alumni Association 2022 Faculty Mentor Award.

“

As one of the first graduate students to be mentored and trained by Dr. Jasti, I benefited immensely from his teaching philosophy, in which he encouraged and nurtured my love of science and technology. When I think about Dr. Jasti, the first thing that comes to my mind is his compassion and dedication to each of his student. As long as I've known him, he's had an open-door policy for anyone needing his help.”

Amit Kokate '07, PhD

Physiology and Pharmacology

Atefeh Rabiee, PhD

Assistant Professor

Dr. Rabiee et al. published “Flattening of circadian glucocorticoid oscillations drives acute hyperinsulinemia and adipocyte hypertrophy” in *Cell Reports*, June 28, 2023.

Dr. Rabiee et al. published “Early enforcement of cell identity by a functional component of the terminally differentiated state” in *PLOS Biology*, Dec. 5, 2022.

Ankita Poojari '25, **Kapil Dev**, PhD, postdoctoral

researcher, and Dr. Rabiee published “Lipedema: Insights into Morphology, Pathophysiology, and Challenges” in *Biomedicines*, Nov. 30, 2022.

Robert F. Halliwell, PhD

Professor

Dr. Salmanzadeh-Dozdabi, Poojari, Dr. Rabiee, Benjamin David Zeitlin, PhD, associate professor of biomedical sciences, and Dr. Halliwell published “Neuropharmacology of human TERA2.cl.SP12 stem cell-derived neurons in ultra-long-term culture for antiseizure drug discovery” in *Frontiers in Neuroscience*, June 15, 2023.



Roshanak Rahimian, PharmD, MSc, PhD, professor and chair of the Department of Physiology and Pharmacology, has been invited by the scientific review officer of the National Institutes of Health to serve on the Integrative and Clinical Endocrinology and Reproduction Study Section. Dr. Rahimian was also elected to serve on the Cardiovascular Section of American Physiological Society Awards Committee.

Roshanak Rahimian, PharmD, MSc, PhD

Professor, Department Chair

Md Rahatullah Razan '22, PhD, **Said Amissi**, PhD, postdoctoral research fellow, **Rifat A. Islam '24**, Dr. Rahimian et al. published “Moderate-Intensity Exercise Improves Mesenteric Arterial Function in Male UC Davis Type-2 Diabetes Mellitus (UCD-T2DM) Rats: A Shift in the Relative Importance of Endothelium-Derived Relaxing Factors (EDRF)” in *Biomedicines*, April 8, 2023.

Carlos A. Villalba-Galea, PhD

Associate Professor

Dr. Villalba-Galea published a letter to the editor “About hysteresis in Shaker: A note on Cowgill and Chanda” in *Journal of General Physiology*. March 30, 2023.

IN THE MEDIA



Research on energy drinks conducted by **Sachin A. Shah**, PharmD, FACC, FAHA, professor of pharmacy practice and regional coordinator for Travis, was featured in Australian Broadcasting Corporation’s documentary “Science of Drugs with Richard Roxburgh,” Episode 3: The Stimulants, which aired August 2022.

Dr. Alhamadsheh and **Hala Aldawod '24** were interviewed by Capital Public Radio for the article “Cancer patients who take opioids often struggle with constipation. These Stockton-based researchers may have a solution.”

Michael Conner '12, PharmD, Global MBA, president of the California Pharmacists Association, was quoted in “Local health officials, pharmacists applaud over-the-counter Narcan” for The Business Journal.

Dr. A.M. Kaye was quoted in HealthCentral in “How Is Methotrexate Used to Treat Psoriatic Arthritis?,” May 1, 2023, in “Does Adderall Cause Skin Problems?,” Oct. 24, 2022, and in “Are There Side Effects to Stopping Methotrexate?,” Aug. 4, 2022.

Dr. Patel was interviewed by PharmacyTimes for the article “Addressing Language Barriers, Medication Therapy Management at Medicare Part D Outreach Clinics.”

The clinic held at Progressive Community Church in Stockton on February 18, a collaboration of the School’s Diabetes Care Clinics and the Arthur A. Dugoni School of Dentistry, was featured in The Record.

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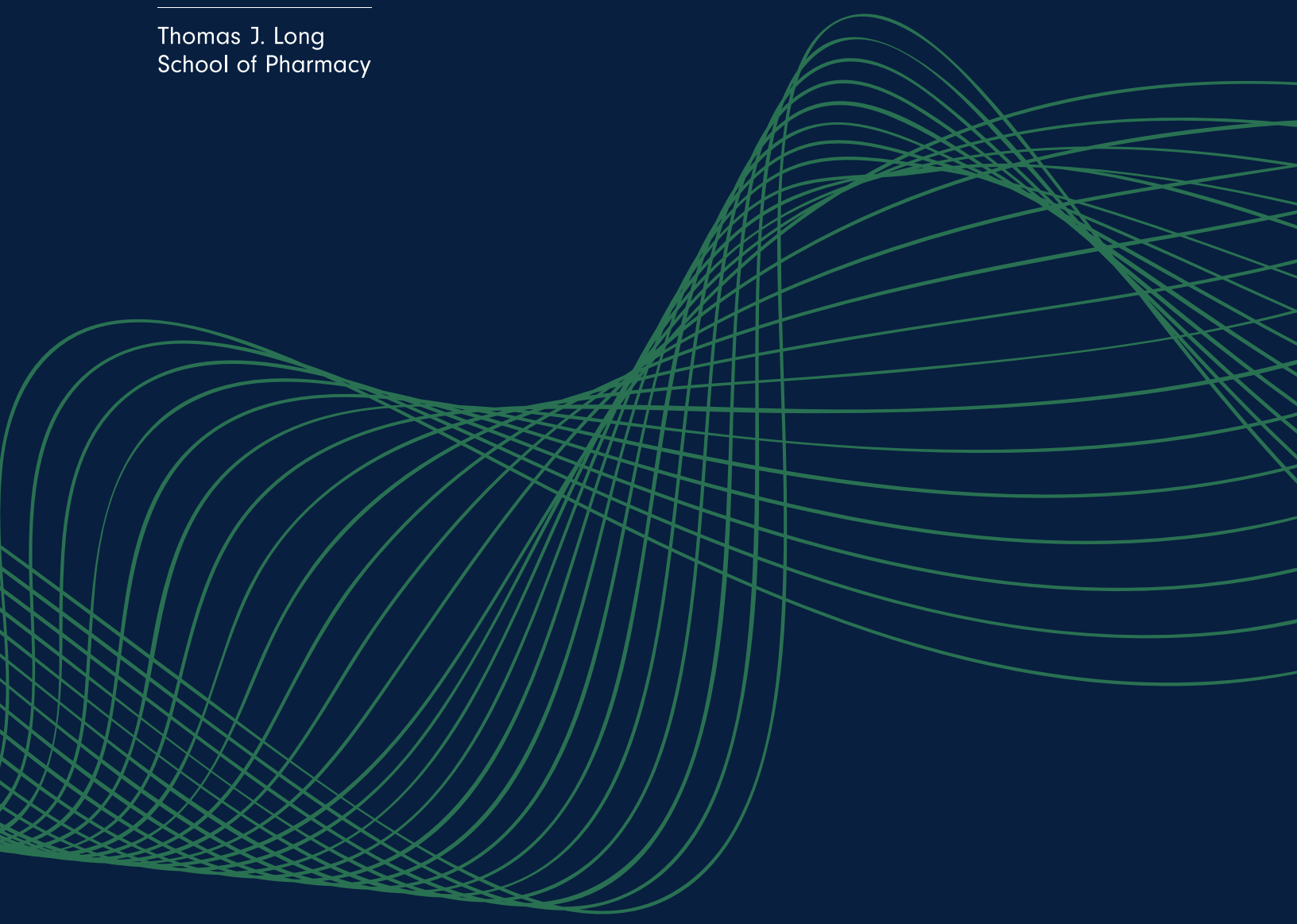
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