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Message from the Department Chair

Dear Colleague,

This is the very first annual report of the Department of Pharmaceutical and Administrative Sciences. The LLU board of trustees approved our department name change from the Department of Pharmaceutical Sciences in December 2013. Our new monicker accurately reflects the current composition and current responsibilities of our department and is, in my opinion, evidence of the continued development of our department and school.

During this year, the department has placed an emphasis on the maturation of our research program. We have determined that it is important that all faculty in the department begin the process of seeking out areas in which they can participate in the science of teaching and learning. Also, we have, for the first time, partnered with the Loma Linda School of Medicine, Department of Basic Sciences as a sponsor for the basic science seminar program. During the past academic year, we brought 3 external speakers to the University. This is part of our desire to reach out to colleagues on this campus and throughout the nation and to develop collaborations with those whose research interests are in synergy with ours. We are proud of, but attempting to improve on, our current rating of number 58 among US Schools of Pharmacy in terms of NIH research funding.

At this point, I would like to express my deepest and most sincere appreciation to the faculty and staff of the department. Each of these individuals are critical to our success.

Sincerely,

Willie Davis, PhD
Mission Statement of the Department of Pharmaceutical and Administrative Sciences

The mission of the Loma Linda University School of Pharmacy, Department of Pharmaceutical and Administrative Sciences is to provide the highest quality basic science and pharmacy administrative science educational opportunities to our students. We do this through the constant pursuit of demonstrated excellence in teaching, research and service. We also seek opportunities to, whenever possible, engage pharmacy students and graduate students in our research endeavors.
Pharmaceutical Science Research Resources

The department has its research space in the Chan Shun Pavilion. This building was constructed as a basic science research building and is located adjacent to the Loma Linda University Medical Center. The department has three laboratories in the building and the cumulative size of these is approximately 3500 square feet.

Chemistry Laboratory

This laboratory contains 2, 6-foot preparative chemistry hoods along with analytic equipment. An enclosed area in this laboratory contains the department’s cell culture and microscopy facility. This year, we upgraded our microscopy equipment with the addition of an automated fluorescence microscope. The Chemistry lab is utilized by Dave Weldon, Kristopher Boyle, Rich Maskiewicz, and Vicki Maskiewicz, while the cell culture and microscopy facility is shared space.

Neuropharmacology Laboratory

This laboratory contains two rooms where whole-animal and single cell electrophysiological recordings can be made. The lab also includes space and equipment for immunohistochemistry, microscopy, and other biological analyses. This lab is utilized exclusively by Dr. Wei-Xing Shi.

Molecular Biology Laboratory

This laboratory contains analytical and preparatory equipment including real-time quantitative PCR, ultra-centrifuge, and imaging equipment. This lab is utilized by Danyetta Anderson, Vicki Maskiewicz, and Willie Davis.

There are abundant shared resources on the LLU campus, to which our faculty members have access. These include the Advanced Imaging and Microscopy Core facility, Flow Cytometry Center, Atomic Absorption, Mass Spectroscopy, and Magnetic Resonance Imaging. Departmental researchers also have access to equipment at Redlands University and the University of California - Riverside.
Danyetta Anderson, PhD
Assistant Professor

**Biography**

I earned a PhD in Biochemistry from The Ohio State University and completed a Postdoctoral Fellowship in Cancer Etiology and Prevention at the Johns Hopkins University. I joined the faculty of the Loma Linda University School of Pharmacy in 2012. My current research involves exploring the role of PARP inhibitors in Triple Negative Breast Cancer (TNBC) as well as identifying potential therapeutic strategies for ethnic minorities with TNBC.

**2012 - 2013 Publications/Presentations**


**Service Activities:**

Member - LLUSP Assessment Committee
Kristopher Boyle, PhD
Assistant Professor

Biography

I earned a PhD from the University of California, Irvine in 2008, and then completed postdoctoral studies at the Scripps Research Institute in La Jolla, California. I joined the faculty of the Loma Linda University School of Pharmacy in 2012, and I teach Medicinal Chemistry to second-year pharmacy students. I am currently investigating the correlation of the chemical structure of an antimalarial compound with its biological activity.

Service Activities

Member - LLUSP Assessment Committee
Biography

I earned my doctorate degree in pharmacy from the University of Southern California and completed a general pharmacy practice residency at the University of California San Diego’s Medical Center prior to beginning my academic career at LLU in 2007. My clinical service includes ambulatory care pharmacy practice at the SACHS Norton Clinic in San Bernardino. My lecture topics include bioethics, professional communication skills & conflict management, cultural competence, and tobacco dependence treatment. My current research interests include social justice, assessing inter-professional international service learning, cultural competence, and tobacco dependence treatment.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - RXSA 751, Social and Behavioral Pharmacy

2012 - 2013 Publications/Presentations


Service Activities

Member - LLUSP Accreditation Oversight Committee
Member - LLUSP International Pharmacy Outreach Committee
Willie Davis, PhD  
Chair and Associate Professor

Biography

I earned a PhD in Biochemistry from Meharry Medical College and afterwards completed a post-doctoral fellowship in the Laboratory of Gene Regulation, Department of Pathology at the National Cancer Institute in Bethesda, Maryland. I joined the LLUSP faculty in 2004 as an Assistant Professor, and in 2009 was promoted to Associate Professor. I was appointed Acting Chair, Department of Pharmaceutical Sciences in January 2012 and became Chair in June 2012. My laboratory research projects are pharmacogenomics of responsiveness to prescription appetite suppressants in obese individuals. My teaching research interest is in the area of determining predictive metrics of pharmacy student success.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - RXPS 581, Biochemistry 1  
Course Coordinator - RXPS 582, Biochemistry 2

2012 - 2013 Publications/Presentations

March 2013 - "Contributions of Cognitive and Non-Cognitive Factors to the Effectiveness of Student Teams in a First-Year Pharmacy School Biochemistry Course Using TBL for Content Delivery" W. Davis. 2013 Team Based Learning Collaborative Annual Meeting, San Diego, CA

Service Activities

Invited Reviewer - Currents in Pharmacy Teaching and Learning  
Member - LLU Faculty of Graduate Studies Admission Review Committee  
Co-Chair - LLUSP Continuing Professional Development Committee  
Member - LLUSP Executive Committee
Elvin Hernandez, MPH, PhD
Associate Professor

Biography

I earned a Master of Public Health degree at Drexel University School of Public Health and a PhD in public health from the Loma Linda University School of Public Health. I joined the faculty of the Loma Linda University School of Pharmacy in 2005. I teach the Public Health and Lifestyles and Biostatistics and Epidemiology courses. My research interest is to explore patient-clinician communication factors that may be associated with medication adherence in diverse, racial and ethnic populations.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - Public Health and Lifestyles, RXSA 545
Course Coordinator - Epidemiology and Biostatistics, RXSA 640
Course Coordinator - Clinical Research Methodology, RXSA 757

2012 - 2013 Publications/Presentations


Service Activities

Member - LLUSP Admissions Committee
Chair - LLUSP Promotion and Tenure Committee
Member - LLUSP Accreditation Oversight Committee
Biography

I earned a PhD in Toxicology from the University of North Carolina and joined the faculty of the Loma Linda University School of Pharmacy in 2004. My teaching and research interests focus on the use of dietary supplements, particularly in ethnic populations, and I am interested in the assessment of student learning.

Courses Taught in the 2012 - 2013 Academic Year

Instructor - IPDM 2: Fluids and Electrolytes, RXTH 671 and IPDM 1: Introduction to Pharmacology, RXTH 670
Course Coordinator - Dietary Supplements, RXPC 710
Course Coordinator - Clinical Toxicology, RXPS 718

2012 - 2013 Publications/Presentations


2012 - 2013 Grant Funding

CKC-Music, $2000 from Kaiser Medical Center
CKC-Music, $1500 pending from the Moca Foundation

Service Activities

Chair - LLUSP Assessment Committee
Richard Maskiewicz, PhD  
Associate Professor

**Biography**

I earned a PhD in bioorganic chemistry from The University of California, Santa Barbara. I joined the faculty of the Loma Linda University School of Pharmacy in 2006, and I currently serve as the course coordinator and primary instructor in our physical pharmacy and dosage form evaluation courses. My research interests include the development of novel processes for sustained/controlled drug delivery, and investigation of properties of high entropy fluids.

**Courses Taught in the 2012 - 2013 Academic Year**

Course Coordinator - Pharmaceutics 2, RXPS 512  
Course Coordinator - Pharmaceutics 3, RXPS 513  
Course Coordinator - Topics in Compounding, RXPS 784

**Recent Publications/Presentations**


**2012 - 2013 Grant Funding**

Co-PI: NIH, "Universal Sustained Release System for HIV Microbicides"
**Service Activities**

Chair - LLUSP Curriculum Committee  
Member - LLU Research Services Committee
Biography

I earned a bachelor's degree in pharmacy from the University of Rhode Island and a PhD in pharmaceutical chemistry from the University of California at San Francisco. I joined the faculty of the Loma Linda University School of Pharmacy in 2007. My research areas of interest focus on drug delivery and pharmacokinetics.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - Clinical Pharmacokinetics, RXPC 760
Course Coordinator - Pharmacokinetics, RXPS 610
Instructor - Pharmaceutics 2, RXPS 512

Recent Publications/Presentations


Service Activities

Member - LLUSP Admissions Committee
Member - LLUSP Promotion and Tenure Committee
Jim Pinder, JD, MBA
Assistant Professor

**Biography**

I have taught pharmacy law at Loma Linda University School of Pharmacy since 2009. My research focuses on preparing pharmacy students for practice in a litigious society and the intersection of pharmacy law and the practice of pharmacy. I am also director of academic affairs for the Loma Linda University School of Pharmacy.

**Courses Taught in the 2012 - 2013 Academic Year**

Course Coordinator - Pharmacy Law, RXSA, 547

**2012-2013 Publications/Presentations**


**Service Activities**

Rotary Club of Redlands, Calif. Board of Trustees
Wei-Xing Shi, PhD
Professor

Biography

I earned a Ph.D. in neuropharmacology from Yale University School of Medicine. After a postdoctoral fellowship at Columbia University in New York, I returned to Yale, first as an Assistant Professor and then Associate Professor. I joined the faculty of the Loma Linda University School of Pharmacy in 2007. My research interests are in the area of the neurobiology and pharmacology of brain disorders including schizophrenia, Parkinson’s disease, and drug addiction. My lab uses a wide range of research techniques including in vivo and in vitro electrophysiological recording, optogenetics, immunohistochemistry, and behavioral testing. I also coordinate and teach in the Physiology I and Introduction to Neuropsychopharmacology courses.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - Physiology 1, RXPS 524
Course Coordinator - Introduction to Neuropsychopharmacology, RXPS 784

2012 - 2013 Publications/Presentations


D Xu, WX Shi (2013) L-DOPA induces non-vesicular dopamine release, Society for Neuroscience 2013 Annual Meeting

2012 - 2013 Grant Funding

PI: NIH, “Prefrontal control of dopamine neurons"

Co-PI: NIH, “Understanding neuronal and axonal degeneration in a murine model of human MS”

Service Activities

Member-LLUSP Promotion and Tenure Committee
Member-LLU Rank and Tenure Committee
Member-LLU FGS Graduate Council
Member - LLUSP Continuing Professional Development Committee
Biography

I earned a PhD in Medicinal Chemistry from The University of Mississippi in 2008 and joined the faculty of the Loma Linda University School of Pharmacy in the same year. I teach in the medicinal chemistry series that is offered to second year pharmacy students. My research interests are in the area of the isolation and synthesis of natural products and natural product analogues for anti-cancer therapy.

Courses Taught in the 2012 - 2013 Academic Year

Course Coordinator - Principles of Medicinal Chemistry 1, RXPS 651
Course Coordinator - Principles of Medicinal Chemistry 2, RXPS 652
Course Coordinator - Principles of Medicinal Chemistry 3, RXPS 653

Recent Publications/Presentations


Service Activities

Member - LLUSP Curriculum Committee
Future Departmental Goals

1. **Improve** the scholarly output by developing collaborative projects that leverage the skills of department members.

2. **Increase** the number of fruitful research collaborations between members of the department with clinical and basic science research faculty in other LLU schools and elsewhere.

3. **Develop** a sustainable culture of scholarly teaching within the department.

4. **Catalyze** the discussion, planning, and implementation of a renovated PharmD curriculum.
Acknowledgements

I would like to thank Ms. Daphne Zamora for her administrative assistance in the preparation of this document. I would also like to thank Dr. Steve Vodhanel for taking the faculty pictures that are included in the report.