

PHAR 406 Principles of Drug Action and Therapeutics VI: Chemistry of Antivirals, Fall 1999-2007 (lecturer)

PMMP 323 Bioanalytical Chemistry, Fall 1994-1995, 1997 (lecturer), 1996 (coordinator)

PMMP 623 Bioanalytical Chemistry, Spring 1995-2000 (coordinator)

PMPG 480 Methods of Evaluating Biologically Active Natural Product Drugs, Spring 1998-2006; Fall 2009 (lecturer)

PMPG 507 Drug Discovery, Design and Development, Fall 2005-2011 (lecturer)

PMPG 510 Research Techniques in Pharmacognosy, Fall 1997-2011 (lecturer)

PMPG 515 Structure Elucidation of Natural Products, Spring 1998, 2000 (lecturer)

PMPG 495 Introduction to Pharmaceutical Biotechnology, Spring 1999 (lecturer)

PMPG 511 Advanced Pharmacognosy II, Spring 2006-2012 (lecturer)

International Training Program in New Crops: Aromatic and Medicinal Plants – 2000. Taught laboratory practicum on, "Medicinal plant analysis using HPLC and LC-MS." University of Illinois at Chicago and Purdue University. Chicago, IL. June 19-30, 2000.

## **RESEARCH STUDENTS AND POST-DOCTORAL FELLOWS SUPERVISED**

### *Graduate Students*

1. LeRoy B. Martin, III, Ph.D. Chemistry, 1990  
"Mass Spectrometry of Organometallics and Several Platinated Oligonucleotides"  
Current position: Mass spectrometry applications scientist with Micromass, Division of Waters, Danvers, MA
2. David R. Goodlett, Ph.D. Biochemistry, 1991  
"Studies on the Active Site of Juvenile Hormone Esterase"  
Current position: Professor of Medicinal Chemistry, University of Washington, College of Pharmacy, Seattle, WA
3. Chien-Hua Huang, Ph.D. Chemistry, 1991  
"Synthesis of Poly-3,3,3-trifluoro-1-phenylpropyne and Poly-1-phenylpropyne and Characterization by Chromatography and Mass Spectrometry"  
Current position: Chemist in Taiwan
4. Roderick G. Davis, M.S. Chemistry, 1991  
"Rates of Proteolysis of Bioactive Peptides Determined Using HPLC and Mass Spectrometry"  
Current position: Mass spectrometry specialist, Research Resources Center, University of Illinois at Chicago, Chicago, IL
5. Catherine Ann Culver, Ph.D. Food Science, 1991  
"Application of Immobilized Digestive Enzyme Assay Fluidized-bed Reactors and Characterization of Their Digests."  
Current position: Principal scientist, Pepsi-Cola Co., Valhalla, NY
6. Yinhsien Tsou, Ph.D. Chemistry, 1993  
"Degradation of Xenobiotic Compounds by Immobilized Enzymes and Cells"  
Current position: Killed in automobile accident

7. Kevin Blackburn, M.S. Chemistry, 1993  
"Degradation of Lysobactin by Digestive Proteases"  
Current position: Analytical chemist, Glaxo SmithKline Pharmaceuticals, Research Triangle Park, NC
8. Dejan Nikolic, Ph.D. Medicinal Chemistry, 1999  
"Screening of Combinatorial Chemistry Libraries Using Pulsed Ultrafiltration-Mass Spectrometry" Current position: Mass spectrometry lab manager and Research Assistant Professor, UIC/NIH Center for Botanical Dietary Supplements Research, University of Illinois College of Pharmacy, Chicago, IL
9. Lixin Shen, M.S. Medicinal Chemistry, 1999  
"Analysis of DNA Oxidation Products using Liquid Chromatography-Mass Spectrometry"  
Current position: Mass spectrometrist, Roche Pharmaceuticals, Nutley, NJ
10. Yecheng Tan, Graduate Student, 1995-2000  
"Liquid Chromatography-Mass Spectrometry of Oligonucleotides"  
Current position: Mass spectrometrist at Decode, Lemont, IL
11. Xiaoying Xu, Ph.D. Pharmacognosy, 2000  
"Antiproliferative Effect of Lycopene on Prostate Cancer Cells"  
Current position: Group Leader Analytical and PMPK, Novartis, Shanghai, China
12. Yan Wang, Ph.D. Medicinal Chemistry, 2001  
"Prevention of Prostate Cancer by Lycopene"  
Current position: Director of Proteomics, College of Chemical and Life Sciences, University of Maryland, College Park, MD
13. Chongwoo Yu, Ph.D. Chemistry, 2002  
"Investigation of Resveratrol Metabolism using Liquid Chromatography-Mass Spectrometry"  
Current position: Office of Clinical Pharmacology, U. S. Food and Drug Administration, Silver Spring, MD
14. Yanan Yang, Ph.D. Medicinal Chemistry, 2003  
"Quantitative Determination of DNA Oxidation and DNA Methylation by Using LC-UV-MS-MS" Current position: Mass spectrometrist, Agilent Technologies, Palo Alto, CA
15. Benjamin M. Johnson, Ph.D. Medicinal Chemistry, 2003  
"Mass Spectrometric Assays for Electrophilic Metabolites of Natural Product Mixtures"  
Current position: Senior scientist, Bristol Myers Squibb, Wallingford, CT
16. Spiros Garbis, Ph.D. Pharmacognosy, 2003  
"Bioavailability Studies of Folate in Humans"  
Current position: Staff research scientist, Academy of Athens, Foundation for Biomedical Research, Athens, Greece
17. Yongmei Li, Ph.D. Pharmacognosy, 2004  
"Caco-2 cell permeation studies and metabolism of botanical natural products"  
Current position: Senior Scientist in Drug Metabolism and Pharmacokinetics. Boehringer Ingelheim, Ridgeland, CT
18. Natasa Pajkovic, Ph.D. Medicinal Chemistry, 2005  
"Prevention of Prostate Cancer by Lycopene"  
Current position: Senior Scientist in Drug Metabolism. Merck, West Point, PA

19. Wenzhong Liang, Ph.D. Pharmacognosy, 2005  
“Pharmacokinetics and metabolism studies of active compounds in botanical dietary supplements for womens’ health”  
Current position: Senior Scientist at Pharmaceutical Product Development, Inc. Madison, WI
20. Xun Cheng, Ph.D. Medicinal Chemistry, 2005  
“Ultrafiltration Mass Spectrometric Screening for Inhibitors of Macromolecular Aggregation”  
Current position: Senior Scientist at Affymax, Palo Alto, CA
21. Yongkai Sun, Ph.D. Medicinal Chemistry, 2005  
“Characterization of estrogens using ultrafiltration mass spectrometry”  
Current position: Scientist at Celgene, Summit, NJ
22. Xiaofeng Yang, Ph.D. Medicinal Chemistry, 2005  
“Studies of protein covalent modifications using mass spectrometry”  
Current position: Scientist I at Millennium Pharmaceuticals, Cambridge, MA
23. Guowen Liu, Ph.D. Medicinal Chemistry, 2005  
“Screening for potential chemopreventive agents targeting human Keap1 and human RAR $\gamma$  using mass spectrometry”  
Current position: Scientist at Bristol Myers Squibb, New Brunswick, NJ
24. Dongwei Zhu, Ph.D. Medicinal Chemistry, 2006  
“ $\beta$ -Carotene bioefficacy and prevention of lipid peroxidation by lycopene”  
Current position: Research Scientist at Xenobiotics Laboratory, Plainsboro, NJ
25. Yan Pang, Ph.D. Medicinal Chemistry, 2006  
“*In vitro* studies of intestinal absorption, blood brain barrier permeability and metabolism of natural products using mass spectrometry”  
Current position: Senior Scientist in Drug Metabolism at Abbott Laboratories, Abbott Park, IL
26. Aarti Sawant, Ph.D. Medicinal Chemistry, 2006  
“*In vitro* and *in vitro* identification and evaluation of electrophilic precursors in natural products”  
Current position: Senior Scientist at Pfizer, Groton, CT
27. Yi Tao, Ph.D. Medicinal Chemistry, 2007  
“Characterization of cyclooxygenase-2 inhibitors from ginger dietary supplements and in vitro metabolism studies of gingerol-related compounds”  
Current position: Director of DMPK, GlaxoSmithKline Research and Development, Shanghai, China
28. Yan Luo, Graduate Student, Ph.D. Medicinal Chemistry, 2008  
“Application of proteomics mass spectrometry to the Keap1/Nrf2 chemoprevention pathway”  
Current position: Mass spectrometrists, at Dow Chemical, Shanghai, China
29. Long Yuan, Ph.D. Medicinal Chemistry, 2008  
“Identification and quantitative analysis of DNA damage products using LC-MS-MS”  
Current position: Senior Investigator at Bristol-Myers Squibb, New Brunswick, NJ.
30. Jian Guo, Ph.D. Medicinal Chemistry, 2008  
“Metabolism of active compounds in botanical dietary supplements”  
Current position: Senior Investigator at Astrazeneca, Wilmington, DE.
31. Dongting Liu, Ph.D. Medicinal Chemistry, 2008

“Screening natural products for cancer chemopreventive agents based on binding to RXR $\alpha$  and alkylation of Keap1”

Current position: Senior Scientist at Dow Chemical, Indianapolis, IN

32. Ang Liu, Ph.D. Medicinal Chemistry, 2008

“Mechanisms of prostate cancer prevention by lycopene”

Current position: Principal Investigator, Matrix Bioanalytical Laboratories, New Haven, CT

33. Hongmei Cao, Ph.D. Medicinal Chemistry, 2009

“Role of cyclooxygenases in inflammation and chemoprevention”

Current position: Senior Scientist at Shire Pharmaceuticals, Lexington, MA

34. Jeffrey H. Dahl, Ph.D. Medicinal Chemistry, 2010

“Antioxidant effects and metabolism of lycopene”

Current position: Scientist at Shimadzu Instruments, Columbia, MD

35. Jinghu Carl Li, Ph.D. Medicinal Chemistry, 2010

“Studies of metabolism and disposition of natural products using mass spectrometry”

Current position: Senior Research Scientist at AMRI, Albany, NY

36. Chenqi Hu, Ph.D. Medicinal Chemistry, 2011

“Analysis of Nrf2-Keap1 chemoprevention signaling using mass spectrometry”

Current position: Scientist at Amgen, Cambridge, MA

37. Zhiyuan Sun, M.S. Medicinal Chemistry, 2011

“Mass Spectrometric studies of Keap1-Nrf2 binding interactions.”

Current position: Staff Scientist in University of Pittsburgh Proteomics Center, Pittsburgh, PA

38. Soyoun Ahn, Ph.D. Pharmacognosy, 2011

“In vitro studies of intestinal absorption and blood-brain barrier penetration of pharmacologically active compounds using cell monolayer models combined with HPLC-mass spectrometry”

Current position: Postdoctoral fellow at Oregon State University, Corvallis, OR

39. Yang Song, Ph.D. Pharmacognosy, 2011 “ADMEt Evaluation of Anti-tuberculosis Compounds and New Methodologies Development.”

Current position: Senior Scientist at Chemocentryx, San Francisco, CA

40. Linlin Dong, Graduate Student, 2007-present

“Carotenoid bioavailability and chemoprevention mechanisms”

41. Rui Yu, Graduate Student, 2007-present

“Prostaglandins and asthma”

42. Ke Huang, Graduate Student, 2007-present

“Metabolism of chemoprevention agents”

43. Lian Chen, Graduate Student, 2008-present

“Discovery of chemoprevention agents targeting RXR $\alpha$ ”

44. Yang Yuan, Graduate Student, 2008-present

“Microfluidics LC-MS-MS analysis of DNA alkylation products in human tissue”

45. Jerry White, Graduate Student, 2008-present

“Determination of sites of binding of selective HDAC inhibitors”

46. Kevin Krock, Graduate Student, 2008-present

“Mass spectrometry-based discovery of  $\beta$ -amyloid aggregation inhibitors”

47. Brian Wright, Graduate Student, 2008-present  
“Pharmacokinetics of cocoa antioxidants”
48. Yongchao Li, Graduate Student, 2009-present  
“Mechanisms of lycopene uptake by prostate cells”
49. Andrew Newsome, Graduate Student, 2009-present  
“Discovery of food pigments and chemoprevention agents from extremophiles”
50. Caleb Nienow, Graduate Student, 2010-present  
“Mass spectrometry investigation of binding modes of selective HDAC inhibitors”

*Undergraduates and High School Students*

Michael G. Bartlett, B.A. 1990. North Carolina State University, Raleigh, NC. Senior undergraduate research project in chemistry. "Degradation of Bioactive Peptides by Immobilized Proteases." Subsequent position: Ph.D. program, Dept. of Chemistry, Indiana University, Bloomington, IN. Current position: Professor of Medicinal Chemistry, College of Pharmacy, University of Georgia, Athens, GA.

Jack Thornquest, B.A. 1992. North Carolina State University, Raleigh, NC. Senior undergraduate research project in chemistry. "Interaction of Phage mRNA with a Regulatory Protein." Subsequent position: Ph.D. program, Dept of Chemistry, Univ. of North Carolina at Chapel Hill.

Jacob Lai, B.S. 2000. Northwestern University, Evanston, IL. Summer research 1996-1999. Subsequent position, Ph.D. program, Dept. of Chemistry, Stanford University, Palo Alto, CA. Current position, Senior Chemist, Alza (Johnson & Johnson), Mountain View, CA.

Jacob Lai and Donald Park. 1994-1995. Illinois Mathematics and Science Academy, Aurora, IL. High school science project supervisor/mentor. “C<sub>18</sub> reversed phase high-performance liquid chromatography and mass spectrometry of oligonucleotides.”

Priscilla A. Bernikowicz. 1995-1996. Lincoln Park High School, Chicago, IL. High school science project supervisor/mentor. “Nicotine analysis and ETS exposure.” Named Semifinalist in the national Westinghouse 55<sup>th</sup> Annual Science Talent Search. Attended Northwestern University.

Helen Feinstein, Jennifer Mack and Donald Park. 1995-1996. Illinois Mathematics and Science Academy, Aurora, IL. High school science project supervisor/mentor. “Affinity LC-MS of antisense oligonucleotides.”

Bradley Jellerichs and Angela Janis. 1996-1997. Illinois Mathematics and Science Academy, Aurora, IL. High school science project supervisor/mentor. “Synthesis of oxidized deoxynucleosides.”

Adam Rojan. 1997-1998. Illinois Mathematics and Science Academy, Aurora, IL. High school science project supervisor/mentor. “Pulsed ultrafiltration affinity constant measurements.”

Marissa Fierz. 1998-1999. Illinois Mathematics and Science Academy, Aurora, IL. High school science project supervisor/mentor. “Degradation products of lycopene and their linkage to prostate cancer.”

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