

CURRICULUM VITAE

NAME Margaret O. James
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EDUCATION

1966-1969 B.Sc. Honours Chemistry. University College London, University of London, England, UK

1969-1972 Ph.D. Organic Chemistry. Biochemistry Department, St. Mary's Hospital Medical School, University of London, England, UK. Supervisor: R.T. Williams, F.R.S. Thesis: The metabolism of arylacetic acids in various species of animals.

PROFESSIONAL APPOINTMENTS

1972 - 1975 Visiting Fellow (postdoctoral), National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, U.S.A.

1975 - 1980 Visiting Associate, then Senior Staff Fellow NIEHS/NIH.
Place of work: Whitney Laboratory, St. Augustine, Florida, U.S.A.

1980 - date Assistant Professor (80-85), Associate Professor (85-90), and Professor (90-date), Department of Medicinal Chemistry, College of Pharmacy, University of Florida, Gainesville, Florida.

1991 - 2015 Acting Chair (1991-1993), then Chair (1993-2015), Department of Medicinal Chemistry

2006 – 2021 Jack C. Massey Professor of Pharmacy

2018-2021 UF Term Professor

OTHER PROFESSIONAL AFFILIATIONS

1978 - present Adjunct (78-80), then joint (80-date) faculty appointment, Department of Pharmacology and Therapeutics, College of Medicine, University of Florida

1975 - 2006 Member of the Whitney Marine Research Lab., University of Florida

BROAD RESEARCH INTERESTS

Importance of metabolism and its modulation in drug design. Factors affecting the bioavailability, metabolism and toxicity of drugs, carcinogens and other xenobiotics in humans and animal species. Study of the mechanisms of metabolism and toxicity of foreign chemicals, in particular their interaction with enzymes of steroid biotransformation.

SOCIETIES

American Association for the Advancement of Science (since 1973)
American Society of Pharmacology and Experimental Therapeutics (since 1977)
International Society for the Study of Xenobiotics (Charter member, 1981).
American Chemical Society (since 1982)
Society of Environmental Toxicology and Chemistry (since 1995)
Society of Toxicology (since 1983)
American Association of Pharmaceutical Sciences (since 1986)
Sigma Xi

HONORS

Awarded Markey Fellowships at Mount Desert Island Biological Laboratory, 1987 and 1988.
Appointed to serve on the National Environmental Health Sciences' grant review committee for NIEHS/NIH (1991-1995)
Appointed to serve on National Oceanic and Atmospheric Administration, National Marine Fisheries, Toxics Advisory committee (1991-1993).
Elected councilor of the International Society for the Study of Xenobiotics (1990-93).
Appointed to Editorial Board of Aquatic Toxicology (1991).
Appointed to Editorial Board of Chemico-Biological Interactions (1992)
Awarded D.Sc. for research in xenobiotic biotransformation, University of London, UK. June 1993
Appointed to Editorial Board of Drug Metabolism and Disposition (1993)
Selected as a University of Florida Research Foundation Professor (1997-2000)
Selected for a Professorial Excellence Program award at the University of Florida (1998)
Elected Secretary of the International Society for the Study of Xenobiotics (2000-2003)
Selected as Guest Editor for a special edition of Marine Environmental Research, 2003-4.
Scientific Advisory Board, EcoArray 2003-2007
Elected to Nominating Committee, section on Pharmaceutical Sciences, AAAS, 2004-7, 2012-14.
Elected Chair of the section on Pharmaceutical Sciences, AAAS, 2007-2009
Appointed Jack C. Massey Professor of Pharmacy, 2006-2021
Elected as a Fellow of the American Association for the Advancement of Science, 2011
Appointed UF Term Professor August 2018 to June 2021
Appointed to serve on the Xenobiotic and Nutrient Disposition and Action grant review committee, NIH, 2019-2023.

ADMINISTRATIVE RESPONSIBILITIES

Graduate Coordinator: Dept. Medicinal Chemistry 1986 – 1991 and 2015- 2016

Recruited new graduate students and advised incoming graduate students for their first semester. Additional responsibilities were developing recruitment materials, updating the department graduate policies and procedures manual and serving on the graduate studies committee.

Department Chair (1991-2015)

Administrator for department of around 60 employees (including 12-22 graduate students). Responsibilities include mentoring and evaluating faculty and staff, encouraging faculty research, overseeing department budget, supervising staff, serving as liaison with Deans.

Principal investigator, P42 program project grant (1995-2007)

Selected by colleagues in four colleges to head the Superfund Basic Research Program project grant, which was successfully competitively renewed. Oversaw the administration of this multi-investigator, multi-disciplinary research program project. This included liaison with NIH.

BIBLIOGRAPHY

Refereed Journal Articles and Refereed Conference Proceedings Citation indices, Scopus – 37; Research Gate – 42.1 Google Scholar - 49

1. Reidenburg, M.M., James, M.O., and Dring, L.G.: The rate of procaine hydrolysis in serum of normal subjects and diseased patients. *Clin. Pharmacol. Ther.* 13: 279 - 284, 1972.
2. James, M.O., Smith, R.L., Williams, R.T., and Reidenburg, M.: The conjugation of phenylacetic acid in man, subhuman primates and some nonprimate species. *Proc. R. Soc. Lond. B.* 182: 25 - 35, 1972.
3. James, M.O., Smith, R.L., and Williams, R.T.: The conjugation of 4-chloro- and 4-nitro-phenylacetic acid in man, monkey, and rat. *Xenobiotica* 2: 499 - 506, 1972.
4. James, M.O. and Smith, R.L.: The conjugation of phenylacetic acid in phenylketonurics. *Europ. J. Clin. Pharmacol.* 5: 243 - 246, 1973.
5. James, M.O., Bend, J.R., and Fouts, J.R.: Studies on the fate of phenylacetic acid in some fish species. *Bull. Mt. Desert Island Biol. Lab.* 13: 59 - 62, 1973.
6. James, M. O., Fouts, J.R. and Bend, J.R.: In vitro epoxide metabolism in some marine species. *Bull. Mt. Desert Island Biol. Lab.* 14: 41 - 46, 1974.
7. James, M.O., Fouts, J.R., and Bend, J.R.: Hepatic and extrahepatic in vitro metabolism of an epoxide (8-¹⁴C-styrene oxide) in the rabbit. *Biochem. Pharmacol.* 25: 187 - 193, 1976.
8. James, M. O., Pohl, R.J., Peret, D.G., Fouts, J.R., and Bend, J.R.: Further studies on epoxide metabolism in vitro by marine species. *Bull. Mt. Desert Island Biol. Lab.* 15: 46 - 48, 1975.
9. Bend, J.R., James, M.O., Devereux, T.R., and Fouts, J.R.: Toxication-detoxication systems in hepatic and extrahepatic tissues in the perinatal period. In Morselli, P.L., Garattini, S. and Sereni, F. (eds). *Basic and Therapeutic Aspects of Perinatal Pharmacology*. New York, Raven Press pp 229 - 243, 1975
10. James, M.O. and Bend, J.R.: Taurine conjugation of 2,4-dichlorophenoxyacetic acid and phenylacetic acid as a major metabolic pathway in two marine species. *Xenobiotica* 6: 393 - 398, 1976.
11. Ryan, A.J., James M.O., Ben-Zvi, A., Law, F.C.P., and Bend, J.R.: Hepatic and extrahepatic metabolism of ¹⁴C-styrene oxide. *Environ. Hlth. Persp.* 17: 136 - 144, 1976.
12. Harper, C., James, M.O., Devereux, T.R., Patel, J.M., Bend, J.R. and Fouts, J.R.: Characteristics and development of drug metabolism by pulmonary microsomes. *Agents and Actions* 6: 527 - 530, 1976.
13. James, M.O., Fouts, J.R., and Bend, J.R.: Hepatic and extrahepatic in vitro metabolism of an

- epoxide (8-14C-styrene oxide) in the rabbit. *Biochem. Pharmacol.* **25**: 187 - 193, 1976.
14. Philpot, R.M., James, M.O. and Bend, J.R.: Metabolism of benzo(a)pyrene and other xenobiotics by microsomal mixed-function oxidases in marine species. Institute of Biological Sciences Symposium. In *Sources, Effects and Sinks of Petroleum in the Aquatic Environment*. Washington D.C. pp 184 - 199, 1976.
 15. James, M.O., Foureman, G.L., Law, F.C.P., and Bend, J.R.: Perinatal development of epoxide hydrase and glutathione S-epoxide transferase in hepatic and extrahepatic tissues of the rabbit and guinea pig. *Drug Metab. Dispos.* **5**: 19 - 28, 1977.
 16. Bend, J.R., James, M.O. and Dansette, P.M.: *In vitro* metabolism of xenobiotics in some marine animals. *Ann. N. Y. Acad. Sc.* **298**: 505 - 521, 1977
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- hepatic microsomes from untreated and methylcholanthrene treated southern flounder, *Paralichthys lethostigma*. J. Environ. Pathol. Toxicol. Oncol. 5: 309 - 320, 1984.
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- 97 - 103, 1987.
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<https://doi.org/10.1016/B978-0-12-820472-6.00123-7>

Abstracts presented at meetings - available on request

Editorials, meeting reports and short articles.

James, M.O. Meeting report, PRIMO 12. In ISSX newsletter, 23: 14, 2003

James, M.O. Editorial, Marine Environmental Research, 58 (2-5): iii-iv, 2004.

James, M.O. Inflammation and infection reduce drug metabolism, Nascent transcripts. In Molecular Interventions 5 (5): 273, 2005

OTHER PROFESSIONAL ACTIVITIES, FROM 2011

Invited Lectures

- | | |
|----------------|--|
| October 2011 | Invited lecture on development of glutathione transferase zeta 1 at the annual meeting of the International Society for the Study of Xenobiotics, Atlanta, GA |
| May 2014 | Invited seminar on “Biotransformation of Environmental Chemicals” at University of Miami |
| June 2015 | Invited seminar on “Biomarkers of Exposure to oil-related chemicals in Gulf of Mexico fishes” US Geological Survey laboratory, Gainesville, FL |
| September 2015 | Invited seminar series at Northeastern Forestry University, Harbin, China |
| October 2015 | Invited seminar on “Biotransformation of Environmental Chemicals in Fish and People” American Chemical Society NE chapter, Princeton University, PA |
| April 2016 | “Drug metabolism insights” presented at the first CNPD3 symposium, University of Florida, April 29, 2016 http://pharmacy.ufl.edu/2016/03/23/uf-drug-discovery-symposium/ |
| October 2016 | Invited seminar Physiological Sciences, College of Veterinary Medicine. “Metabolism and Interactions of the Antibacterial Agent, Triclosan” |
| August 2017 | Invited seminar, “Metabolism of the Environmental Chemicals Triclosan and Hydroxy-PBDEs: adverse interactions with estrogen sulfotransferase in sheep and humans” University of Miami Miller School of Medicine, Coral Gables, Florida. |
| July 2018 | Invited lecture, “Structure and Function of Glutathione transferases, with focus on GSTZ1” Gordon Research Conference on Drug Metabolism, Holderness, New Hampshire |

Professional Service

January 2011	Reviewed grant for Wisconsin Ground Water Coordinating Council
March 2011	Review STAR grants for the Environmental Protection Agency
Spring 2011	Scientific Advisory Board for the 16 th international symposium on Pollutant Responses in Marine Organisms (PRIMO16), Long Beach CA
September 2011	Review candidate at Duke University for tenure and promotion
October 2011	Grant review for NIH, special study section
February 2012	Grant review for ICER study section, NIH
April 2012	Grant review for NIH, NIEHS special study section, Oceans and Human Health
June 2012	Review NIH/NIEHS intramural faculty
August 2012	Review candidates for tenure, Virginia Commonwealth University, University of Mississippi
June 2012-Feb 2013	Member of International Agency for Research on Cancer working group to review the carcinogenicity of PCBs (meeting February 2013, Lyon, France)
November 2012	Grant review for NIH/NIEHS.
February 2013	Scientific Advisory Board and review abstracts for the 17 th International symposium on Pollutant Responses in Marine Organisms, Faro, Portugal
April 2013	Grant review for NIH/NIEHS
May 2013	Review two candidates for tenure (University of Amman, Jordan and Qatar University, Qatar)
August 2013	Grant review for NIH/NIEHS
October 2013	Grant review for NIH/NIEHS
December 2013 and February 2014	Grant review for Texas Board of Higher Education Advanced Research Program
February 2014	Grant review for NIH/ Transformative Research Awards
March 2014	External adviser University of Miami grant
August 2014	Review of faculty member at Wayne State University for promotion to professor
October 2014	Grant review NIH
November 2014	Grant review, small business, NIH
October 2014-2015	Scientific organizing committee, 19 th North American ISSX meeting. Organize and chair symposium, review abstracts
June 2015	Review of dissertation from India
July 2015	Review of faculty members (two) for tenure and promotion, Jordan
September 2015	Review of faculty member for tenure, Virginia Commonwealth University
October 2015	Grant review, NIH
January 2016	Grant review, Canadian Government Discovery Research
March 2016	Grant review NIH
April 2016	Grant review UF Opportunity fund
July 2016	ISSX education committee member (1-year term)
August 2016	Grant review NIEHS, Research Triangle Park, NC
October 2016	Symposium organizer and organizing committee member, 9 th PCB workshop, Kobe, Japan
November 2016	Grant Review phone panel, NIH

January 2017	Webinar moderator for ISSX
February 2017	Grant review XNDA, Bethesda, MD
March 2017	Grant review internet assisted ZRG1, NIH
September 2017	review of faculty member for promotion, Jordan
October 2017	Grant review XNDA study section, San Francisco, CA
October 2017	Review of faculty member at University of Kentucky for Promotion
March 2018	Grant review, internet assisted ZRG1, NIH
July 2018	Grant review, internet assisted ZRG1, NIH
September 2018	Reviewed faculty member for tenure, University of the West Indies
December 2018	Grant review internet-assisted ZRG1, NIH
February 2019	Reviewed faculty member for tenure, University of British Columbia
March 2019	Grant review XNDA subsection phone review, NIH
May 2019	Reviewed proposals for AAAS
September 2019	Reviewed faculty member for promotion, Duke University
July 2019- 2023	Appointed as standing member of XNDA study section, 3 meetings per year
June 2020	Reviewed proposals for AAAS
August 2020	Reviewed faculty member for promotion, Virginia Commonwealth University
October 2020	Reviewed faculty member for promotion, Liverpool John Moores University, UK.
July 2021	Reviewed proposal for AAAS

Reviewer for the following journals:

Analytical Methods	Aquatic Toxicology
Archives Biochem. Biophys.	
Biochem. Biophys. Acta	Biological Bulletin
Biomed Central Ecology	Biochemical Pharmacology
Bioorganic Chemistry	
Canadian Journal of Fisheries and Aquatic Sciences	
Canadian Journal of Physiology and Pharmacology	
Central European Journal of Chemistry	Chemical Research in Toxicology
Chemico-Biological Interactions	Chemosphere
Comparative Biochemistry and Physiology	Comparative Hepatology
Critical Reviews in Toxicology	Drug Metabolism and Disposition
Ecotoxicology and Environmental Safety	Endocrinology
Environmental Toxicology and Chemistry	Environmental Pollution
Environmental Science and Pollution Research	Environmental Science and Technology
European Journal of Pharmaceutical Sciences	General and Comparative Endocrinology
Gene	Genetic Testing and Molecular Biomarkers
Journal of Biochemical and Molecular Toxicology	J. Cancer Research
Journal of Biomedical and Pharmaceutical Analysis	
J. Experimental Zoology	J. Pesticide Physiology and Biochemistry
J. Pharmaceutical Science	J. Pharmacy and Pharmacology
Life Sciences	Marine Environmental Research

Metabolism	Marine Drugs
Placenta	PLOS One
Molecules	
Regulatory Pharmacology and Toxicology	Science
Science of the Total Environment	Steroids
Toxicology and Applied Pharmacology	
Toxicological Sciences	Xenobiotica

Editorial Advisory Board

Aquatic Toxicology (1990 – present)

Chemico-Biological Interactions (1991-98) and (2004-present)

Drug Metabolism and Disposition (1992-present)

TEACHING

Graduate courses

Drug Metabolism and Molecular Mechanisms of Toxicity PHA 6425. In this course, students learn in detail the enzymology and regulation of the pathways of xenobiotic biotransformation. Examples are given that demonstrate how biotransformation to chemically reactive metabolites can lead to toxicity. Factors that modulate toxicity are presented.

Drug Design PHA 6447 (Team-taught course). This course is team-taught by all members of the department of Medicinal Chemistry. The course presents aspects of the design of pharmaceutical agents. My lectures cover the importance of understanding drug disposition when designing and developing drugs.

Principles of Drug Action GMS 6009/GMS 7593 (team-taught course). This course is an introduction to pharmacology for graduate students and is taught annually in the department of pharmacology. My lecture covers pathways of drug elimination.

Fundamentals of Cancer Biology, GMS6065 Team-taught course on all aspects of cancer biology. My lectures cover chemical carcinogenesis and chemoprevention.

Translational Research and Therapeutics GMS 6847 (team-taught course 2016-2019)

Advanced Toxicology VMS 6003 This team-taught course covers mechanistic toxicology

Supervised Research PHA 6905, 6910, 7979, 7980 - varying contact hours - laboratory-based courses for graduate students.

Seminar in toxicology

Organized interdisciplinary seminar in toxicology from Fall 1995 to 2007, funded in part by the Superfund Basic Research Program.

Interdisciplinary Toxicology Program

Member of the executive committee of the University-wide program, begun 1990, which

promotes toxicology research and graduate training.

Committee chairman, Ph.D. student:

Pamela Riley - Ph.D. program, 1984-5 (transferred to Dr. R. Hanzlik at Kansas), currently at Proctor and Gamble, Norwich, New York.

Jason Li - Ph.D. 1988 - 93, Research Topic: The fate of phenolic compounds in the lobster. After graduation worked for two years as a post-doctoral fellow with Dr. M. Corbett at the Eppley Cancer Research Institute.

Sean M. Boyle - Ph.D. 1991-1997. Research Topic: Cytochrome P4502L isozymes in the spiny lobster, *Panulirus argus*. Mr. Boyle won the College of Pharmacy poster prize, April, 1996. Took up a postdoctoral fellow with Dr. C. Omiecinski in the Toxicology Department, University of Washington School of Public Health, May 1997. Now a patent attorney, Palo Alto, CA.

Zeen Tong - Ph.D. 1992 - 1996. Research Topic: Xenobiotic-metabolizing enzymes and the intestinal bioavailability and biotransformation of benzo(a)pyrene phenols and conjugates in the channel catfish, *Ictalurus punctatus*. Finalist in the College of Pharmacy research day, 1996. After three years as a post-doctoral fellow with M.W. Anders at the University of Rochester, he moved to Wyeth-Ayerst Drug Metabolism Division as a senior drug metabolism scientist. Now at Celgene corporation

Rachel Cornett, Ph.D. 1995-1999. Research Topic: Metabolism of dichloroacetic acid. After graduating, Dr. Cornett took up a position in the Forensic Toxicology laboratory, Gainesville, as a research chemist. She later returned to the practice of pharmacy

Zhen Lou, Ph.D. 1997 - 2001. Research Topic: Intestinal metabolism of xenobiotics. She won a drug metabolism division prize for her poster presentation at the ASPET meeting, 2001. After graduation she was recruited to the drug metabolism division of Pfizer Pharmaceutical company, Ann Arbor, MI, and in 2007 moved to Bristol-Myers Squibb, where she is a senior scientist.

Vaishali Dixit, Ph.D. 2000-2005. Research Topic: Inactivation of glutathione S transferase zeta by dichloroacetic acid. After post-doctoral fellowship with J. Unadkat at the University of Washington, Seattle, she moved to Vertex Pharmaceuticals.

Leah Stuchal, Ph.D. 2000-2005. Research Topic: Phase I and Phase II biotransformation of methoxychlor and its demethylated metabolites in the channel catfish (*Ictalurus punctatus*). Currently a research assistant professor in risk assessment, University of Florida.

James Sacco, Ph.D. 2001 -2006. Research Topic: Phase II biotransformation of xenobiotics in polar bear, *Ursus Maritimus* and channel catfish *Ictalurus punctatus*. Won first place for his presentation at the College of Pharmacy research day, 2005. After a post-doctoral fellowship at the University of Wisconsin he took up a position as an assistant professor at Drake University, Iowa.

Betty Nyagode, Ph.D. 2002-2007. Research Topic: Biotransformation of methoxychlor and selected xenobiotics by channel catfish, *Ictalurus punctatus* and largemouth bass, *Micropterus salmoides*. Finalist in the College of Pharmacy research day, 2007. Upon graduation she took up a post-doctoral position at Emory University College of Medicine. She is currently a scientist at Proctor and Gamble, Cincinnati.

John Benedet, entered Ph.D. program Fall 2006 transferred to Arizona State, May, 2007

Kristen Merritt, Ph.D. 2006-2011. Research Topic: Cloning and Expression of Sulfotransferases from Channel Catfish Liver. Currently Biological Scientist Florida Biologix

- Wenjun Li, Ph.D. 2006-2011. Research Topic: Glutathione transferase Z1-catalyzed biotransformation of dichloroacetate – roles of mitochondrion, subject age, GSTZ1 haplotype and chloride interaction. Finalist in the College of Pharmacy research day, 2009. Travel award recipient, NIEHS, 2007, Society of Toxicology, 2009, FASEB 2010. Awarded prize in Drug Metabolism Division poster competition 2010. After a postdoctoral fellowship at the University of Lausanne, Switzerland, she joined Cisbio bioassays company in Shanghai, China. Currently with Boehringer-Ingelheim, Shanghai
- Sriram Ambadapadi, M.S., Ph.D. 2007-2012 Research Topic: Modulation of steroid sulfonation by small molecules that interact with sulfotransferases and sulfatases. Travel award AAPS 2011. Currently scientist at Pharmacyclics, San Francisco
- Erin Jackson, B.S. Ph.D. 2010-2015. Research Topic: Interactions of triclosan with phase II enzymes. Travel award ASPET 2013. Finalist in College of Pharmacy Research Day 2014. Travel award 8th PCB workshop 2014. Following postdoctoral fellow at the University of Kentucky she accepted a position as scientist at the University of Miami
- Guo Zhong, M.S. Ph.D. 2011-2015. Research Topic: Human glutathione transferase zeta-1 in mitochondria, and dichloroacetate-induced GSTZ1 inactivation, roles of anions, age and subcellular location. Winner of Poster prize, College of Pharmacy Research Day 2014, Finalist in senior division College of Pharmacy research Day 2015. In Fall 2014, she was selected for a travel award from ISSX and her poster was picked for oral presentation in the conference. She joined the University of Washington College of Pharmacy in August 2016 as a post-doctoral fellow and has accepted a position as scientist at Amgen, April 2021.
- Marci Smeltz, B.S. Ph.D. 2012-2017 Dissertation: Factors modulating dichloroacetate-induced glutathione transferase zeta 1 inactivation in a rat model. Currently staff scientist at Environmental Protection Agency, Research Triangle Park, North Carolina.
- Katherine Cisneros, B.S., Ph.D. entered program Fall 2014. Joined M.O. James lab in Fall 2015. Was awarded a CTSI fellowship in August 2016. Awarded Ph.D. August 2019 Dissertation: Interactions of methoxy-bromodiphenyl ethers and their metabolites with human biotransformation enzymes. Currently scientist at Biorasi, Miami, FL.

Committee chairman, M.S. student:

- K.V. Murali M. Jayanti, 1992-95; Post-graduate position: Drug Metabolism Division, Abbott Labs., Chicago, IL.
- Donald Sikaswe, 1993-1996. He later completed the Ph.D. program at Florida A&M university. Present position: Associate Professor of Pharmaceutical Sciences, University of the Incarnate Word, San Antonio.

Committee member

Member of graduate student committees for many students in College of Pharmacy, College of Medicine, Department of Chemistry and in the Institute of Food and Agricultural Sciences. Served on the doctoral supervisory committee of student at Florida Agricultural and Mechanical University, and as the opponent of a Ph.D. thesis defense in Goteborg University, Sweden. Served as external member of Ph.D. candidate at Miller School of Medicine, Miami, FL

Postdoctoral fellows. (current position)

Dr. Robert Weatherby, 1976-78. Senior Lecturer, Department of Pharmacology, University of

Sydney, Australia. Now retired

Dr. Peter J. Little, 1978-80. Senior Scientist and Program Director at the Baker Medical Research Institute. Melbourne, Australia, Dean, University of Queensland School of Pharmacy. Now Emeritus.

Dr. Suniti Dharwhadkhar, 1986-87. Reader, Department of Biochemistry, University of Aurangabad, India.

Dr. Purushotham Karnam, 1988-89.

Dr. Mace Barron, 1985-87. Now Scientific Director, United States Environmental Protection Agency, Gulf Breeze Laboratory, Gulf Breeze, FL.

Dr. John Schell, 1987-90 Toxicologist, ATRA Corp., Dallas, TX

Dr. Armin Herbert 1988-89 Faculty member, University of Mainz, Germany.

Dr. Chung-Li. Jason Li, 1995-2001. Pharmacist, St. Augustine, FL.

Dr. Zimeng Yan 1995 - 97 Analytical Chemist at American Cyanamid, Princeton, NJ

Dr. Bernard K-M. Gadagbui, 1996-2001. Senior scientist, Toxicology Excellence for Risk Assessment, Cincinnati, OH

Dr. Peter Van den Hurk, 1998 – 2001. Associate Professor, Clemson University, SC

Dr. Jing Cheung, 1999 – 2000. Pharmacist, Gainesville, FL.

Dr. Xu Guo, 2003-2005. Scientist, contract research organization.

Dr. Liquan Wang, 2001- 2005. Scientist Xenobiotic laboratories, Princeton, NJ.

Dr. Stephan Jahn, 2013 – 2016 and 2017-2019 Lecturer in Department of Pharmacology, UF

Dr. Edwin Squirewell, 2017-2020. Scientist at Eurofins, Columbia, Mo

Visiting faculty

1999-2000 Dr. Narumi Sugihara, Associate Professor, Fukuoka University, Hiroshima, Japan

2006-2007 Dr. Hae-Soon Shin, Associate Professor, Duksung Women's University, Seoul, Korea

2018-2019 Dr. Yanlong Sun, Lecturer, Medicinal Chemistry, Weifan Medical University, China

2018-2019 Dr. Huanan Guo, Associate Professor, Harbin University of Commerce, Harbin, China

2020 Dr. Mohamed Fawzy Hamed, Assistant Professor of Veterinary Pathology - Faculty of Veterinary Medicine – Mansoura university- Egypt

Visiting students

2007-8 Abidemi J. Akindele, Fulbright Scholar, University of Lagos, Nigeria

2009-10 Yuan Gu, Chinese Scholarship Council, Tianjin University, China

2009 Svetlana Gabel, Pharmazeutisches Institut der Universität Kiel, Germany

2011 Peter Ghaly, German University, Cairo, Egypt

2011 Jennifer Schneider, Pharmazeutisches Institut der Universität Kiel, Germany

2012 Quentin Mièvre, Ecole Nationale Supérieure Chimie de Rennes, Rennes, France

2014 Celine Ghiran, Ecole Nationale Supérieure Chimie de Rennes, Rennes, France

2015 Lucas Torres and Wellington Malleigo, Brazilian Scientific Mobility Scholarship

2014-2016 Zhiwei Hu, China Scholarship Council, Northeastern Forestry University, China

2019 Amany Sultan, Ph.D., Zigagat University. Visiting Postdoctoral Fellow March – September 2019 US Agency for International Development-Egyptian Ministry of Higher Education, Research Cooperation Fellow.

2020 Christiane Hindrichs, B.S., Master's student in toxicology, Heinrich-Heine University in Duesseldorf, Germany

Pharmacy professional student and undergraduate courses

Principles of Medicinal Chemistry and Pharmacology PHA 5439 (from 2015). Required course, 3 credits, taught in block 2 of the first semester for beginning pharmacy students. I teach lectures on drug absorption and transport, pathways of drug biotransformation and pharmacogenetics influences on drug biotransformation and transport pathways.

Patient Care 5 Endocrinology and Women's and Men's Health, PHA5787C (from 2017). Required course, second year pharmacy students. My lectures are on steroid metabolism and sex hormone-related therapeutics.

Supervised Research PHA 4906, CHM 4910 and PHA 5906

Various credit hours to undergraduates and professional students interested in research.

FUNDED RESEARCH

Prior support, Extramural – total awarded as PI (from NIH reporter) \$20,154,944

“Developmental Pharmacology of cytosolic and mitochondrial GSTZ1/MAAP”

RO1GM099871 M.O. James, contact P.I., 20% effort, P.W. Stacpoole, MPI

09/01/2012 to 08/31/2020, no-cost extension to 8/31/2021.

“Molecular and Genomic Approaches in Alleviating Environmental Pollution”, US-Egypt

Agency for International Development AWD 05966 3/1/2019 – 8/31/2019

“Health Impact of Deepwater Horizon Spill in Eastern Gulf Coast Communities” 1 U19

ES020683-01. PI J.G. Morris, M.O. James co-I project 3, 5% effort. 6/30/2011 to 5/31/2016

“Fetal endocrine disruption by Triclosan” 1R21ES020545-01 M.O. James (10% effort), C.E.

Wood, MPI, 8/1/2011 to 1/30/2014,

“Effects of Deepwater Horizon Oil Spill on Fish Communities” Florida Fish and

Wildlife Conservation Commission, 2500-1470-00-A, UF PI A.S. Kane, M.O.

James, co-I, 3% effort 9/12/2011 to 3/31/2013,

“Pharmacotoxicology of trichloroethylene metabolites” 1RO1 ES014617 P.W. Stacpoole, PI,

M.O. James, co-investigator 3% effort 4/1/06 to 3/30/12.

“Modulation of steroid sulfation by celecoxib-like drugs” 1 R03 CA123575-01 M.O. James

P.I. 9/1/2008 – 8/31/2011

“Dichloroacetate kinetics, metabolism and human toxicology” 1RO1 ES07355 P.W. Stacpoole,

PI., M.O. James, co-investigator 3% effort. 4/1/04 to 3/30/09 (no-cost extension to 2010).

“Modulation of steroid sulfation by celecoxib-like drugs” GCRC protocol #673, M.O. James, PI. awarded April 18, 2006

“Health Effects of Chlorinated Compounds”. 2 P42 ES 07375. M.O. James, Program Director

(25% time) P.I., project 6, (15% time), and co-investigator project 4, (10% time). 4/1/00-3/31/05, funded extension to 5/17/07.

“Dichloroacetate kinetics, metabolism and human toxicology” 1RO1 ES07355 P.W. Stacpoole,

PI., M.O. James, co-investigator 5-10% effort. 7/1/99 to 6/30/03 with 1 year no-cost

extension. direct costs \$1,022,516; total costs \$1,468,587

- "Bioavailability & metabolism of dietary carcinogens" NIH 1RO1 ES 05781-10 to 14 M.O. James, P.I. 25% time. Dec 1996-Nov 2000, with no-cost extension to Nov 2001. Minority supplement to support Dr. Bernard Gadagbui.
- "Health Effects of Chlorinated Compounds". 1 P42 ES 07375. M.O. James, Program Director (25% time) P.I., project 1, (5% time), and co-investigator project 4, (5% time). 5/1/95-3/31/00.
- "Dichloroacetate kinetics, metabolism and human toxicology" 1RO1 ES07355, P.W. Stacpoole, P.I., M.O. James co-investigator, 10%. July 1 1995-June 30 1999.
- "Bioavailability & Biotransformation of Dietary Carcinogens". NIH ES 05781-05-09. M.O. James, P.I. 20% time, 1991-1996.
- "Carcinogen biotransformation in marine invertebrates". NIH CA 44297, M.O. James, Principal Investigator, 20% time, 1986 -1990. Continued as ES05781.
- "Pharmacological and tumorigenic studies on a composite of drinking water carcinogens utilizing aquatic animals as a bioassay system", M.O. James was consultant for drug metabolism studies in test animals (fish). 1983 - 1988.
- "Interaction of imidazole derivatives and epoxide hydrolase", NIH GM 32547, M.O. James, Principal Investigator, 25% time, 1984 - 1988.
- L.B. Markey Fellowship, NIH SCOR grant participant in toxicology at Mt. Desert Island Biol. Lab., Maine 1987: 1988
- "Drug metabolism in marine invertebrates", FDA U 000149, M.O. James, Principal Investigator, 15% time, 1985 - 1989.
- Consultant to Gulf Research Lab. on US Army project "Use of small fish as models for carcinogenesis". 1988 - 92.

D. Intramural research support by University of Florida

- "Biosynthesis and excretion of amino acid conjugates of drugs", M.O. James, P. I. 1981.
- "Biochemical basis of adverse drug reactions", M.O. James, P. I. 1982
- "Effects of imidazole-containing drugs on cytochrome P-450-dependent monooxygenases", M.O. James, Principal Investigator. 1983
- "Modulation of drug metabolism by imidazole derivatives". Department of Sponsored Research, University of Florida, May 1991 - April 1992,
- "Metabolism of dichloroacetic acid". College of Pharmacy BRSG. Sept 1991 - April 1992.
- Cytochrome P450 in the spiny lobster, DSR graduate student support for Sean Boyle, May 93-Jan 94.
- Aquatic Toxicology facilities support. DSR, 1999
- Opportunity Fund – "Health Effects of Chlorinated Compounds" M.O. James, PI. awarded from Department of Sponsored Research, May 2006.
- Opportunity Fund "Inhibition of estrogen sulfotransferase as a risk for pregnancy and fetal development", M.O. James, PI. awarded from Sponsored Programs April 2011