

John M. Rimoldi, Ph.D.

Curriculum Vitae

I. PERSONAL

Business Address:

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II. PROFESSIONAL EXPERIENCE

- 2010-** Vice President, Board of Directors, Paradox Pharmaceuticals Inc.
2008- Professor, Medicinal Chemistry & Research Professor of the Research Institute of Pharmaceutical Sciences
2001- Research Faculty, Environmental Toxicology Research Program, University of Mississippi.
2001- Research Faculty, Laboratory for Applied Drug Design and Synthesis, University of Mississippi.
2001-2008 Associate Professor, Medicinal Chemistry & Research Associate Professor of the Research Institute of Pharmaceutical Sciences, Department of Medicinal Chemistry, School of Pharmacy
1995-2001 Assistant Professor of Medicinal Chemistry & Research Assistant Professor of the Research Institute of Pharmaceutical Sciences, Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi.
1993-1995 Postdoctoral Fellow, Harvey Peters Research Center for the Study of Parkinson's Disease and Disorders of the Central Nervous System, Virginia Tech, Blacksburg, Virginia. (Prof. Neal Castagnoli Jr., Advisor).
1989-1993 Ph.D., Chemistry, Graduate Research and Teaching Assistant, Department of Chemistry, Virginia Tech, Blacksburg, Virginia. Dissertation title: "*Investigations of the Chemistry of Taxol*" (Prof. David G. I. Kingston, Advisor).
1985-1989 B.S., Chemistry, University of Pittsburgh, Johnstown

III. HONORS -AWARDS

2009	SETAC Inaugural Chemist Travel Award
2008-2011	Galen Order Distinguished Teaching Scholar, School of Pharmacy, U. Mississippi
2007	Editorial Board, Open Medicinal Chemistry Journal
2006	Editorial Board, Perspectives in Medicinal Chemistry
2004	IUPAC Fellow
2004	Visiting Scientist (Sabbatical Leave), U. California Riverside and U. Arizona.
2002	UM Faculty Achievement Award for Outstanding Teaching and Scholarship
2002-04	Secretary, AACP Section of Teachers of Chemistry
2002-04	Sigma Xi National Committee on Qualifications and Membership
2002	University of Mississippi School of Pharmacy Service Award
2002	University of Mississippi School of Pharmacy Faculty Teaching Award
2000-03	National ACS Division of Medicinal Chemistry Graduate Fellowship Selection Committee
1998-	Member, NIH SBIR-STTR Study Section, Drug Discovery and Development
1997	American Association of Colleges of Pharmacy New Investigator Award

IV. SCHOLARLY CONTRIBUTIONS

Textbooks:

JM Rimoldi and CR McCurdy, "Medicinal Chemistry for Pharmacists", McGraw Hill (in progress)

Publications in Refereed Journals (times cited=770; h-index=16)

1. Trimitsis, G., **Rimoldi, J.**, Trimitsis, M., Balog, J., Lin, F.-T., Marcus, A., Somayajula, K., Jones, S., Hendrickson, T. and Kincaid, S. Effect of a 3-phenyl substituent on the acidity of bicyclo[3.2.1]octa-2,6-diene *J. Chem. Soc. Chem. Comm.*, **1990**, 237-238. [citations=3]
2. Kingston DGI, Molinero AA, **Rimoldi JM**. The Taxane Diterpenoids. In: *Progress in the Chemistry of Organic Natural Products*, Volume 61, edited by W. Herz, G. W. Kirby, R. E. Moore, W. Steglich, and Ch. Tamm, Springer-Verlag, Wien & New York, **1993**, pp. 1-206. [citations=230]
3. Chaudhary, A. G., **Rimoldi, J. M.** and Kingston, D. G. I. Modified taxols, 10. Preparation of 7-deoxytaxol, a highly bioactive taxol derivative and interconversion of taxol and 7-epitaxol. *J. Org. Chem.*, **1993**, 58, 3798-3799. [citations=41]
4. **Rimoldi, J. M.**, Chaudhary, A. G., Samaranayake, G., Kingston, D. G. I., Grover, S. and Hamel, E. Modified taxols, 9. Synthesis and biological evaluation of 7-substituted photoaffinity analogues of taxol. *J. Nat. Prod.*, **1993**, 56, 1313-1330. [citations=33]

5. Chaudhary, A. G., Gharpure, M. M., **Rimoldi, J. M.**, Chordia, M., Gunatilaka, A. A. L., Kingston, D. G. I., Grover, S. Lin, C. M. and Hamel, E. Unexpectedly facile hydrolysis of the 2-benzoate group of taxol and synthesis of analogs with increased activities. *J. Am. Chem. Soc.*, **1994**, *116*, 4097-4098. [citations=97]
6. Van der Schyf, C. J., Castagnoli, K., Usuki, E., Fouda, H. G., **Rimoldi, J. M.** and Castagnoli, N. Jr. Metabolic studies on haloperidol and its tetrahydropyridine analog in C57BL/6 mice. *Chem. Res. Tox.* **1994**, *7*, 281-285. [citations=26]
7. Neidigh, K. A., Gharpure, M. M., **Rimoldi, J. M.**, Kingston, D. G. I., Jiang, Y. Q. and Hamel, E. Synthesis and biological evaluation of 4-deacetylpaclitaxel. *Tet. Lett.* **1994**, *35*, 6839-42. [citations=35]
8. **Rimoldi, J.**, Kuttab, S., Castagnoli, K., Castagnoli, N. Jr. Isotope effects in the monoamine oxidase catalyzed oxidation of cyclic tertiary amines. In: *Synthesis and Application of Isotopically Labelled Compounds 1994*. edited by Allen, J. and Voges, R., John Wiley & Sons Ltd., New York, **1995**, pp. 747-750.
9. **Rimoldi, J. M.**, Wang, Y. X., Nimkar, S. K., Kuttab, S. H., Anderson, A. H., Burch, H. and Castagnoli, N. Jr. Probing the mechanism of bioactivation of MPTP type analogs by monoamine oxidase B: structure-activity studies on substituted 4-phenoxy, 4-phenyl, and 4-thiophenoxy-1-cyclopropyl-1,2,3,6-tetrahydropyridines. *Chem. Res. Tox.*, **1995**, *8*, 703-710. [citations=24]
10. Grover, S., **Rimoldi, J. M.**, Molinero, A. A., Chaudhary, A. G., Kingston, D. G. I. and Hamel, E. Differential effects on paclitaxel (Taxol) analogs modified at positions C-2, C-7, and C-3' on tubulin polymerization and polymer stabilization: Identification of a hyperactive paclitaxel derivative. *Biochemistry*, **1995**, *34*, 3927-3934. [citations=34]
11. **Rimoldi, J. M.**, Molinero, A. A., Chordia, M., Gharpure, M. and Kingston, D. G. I. An improved method for the separation of paclitaxel and cephalomannine. *J. Nat. Prod.*, **1996**, *59*, 167-168. [citations=12]
12. Lin, C. M., Jiang, Y. Q., Chaudhary, A. G., **Rimoldi, J. M.** and Kingston, D. G. I. A convenient tubulin-based quantitative assay for paclitaxel (Taxol) derivatives more effective in inducing assembly than the parent compound. *Cancer Chemother. Pharmacol.*, **1996**, *38*, 136-140. [citations=34]
13. Nimkar, S. K., Anderson, A. A., **Rimoldi, J. M.**, Wang, Y. X., Stanton, M. and Castagnoli, N. Jr. Synthesis and monoamine oxidase B catalyzed oxidation of C-4 heteroaromatic substituted 1,2,3,6-tetrahydropyridine derivatives. *Chem. Res. Tox.*, **1996**, *9*, 1013-1022. [citations=26]

14. Mabic, S., **Rimoldi, J. M.** and Castagnoli, Jr., N. Regioselective deuterium labeling of 1,4-disubstituted-1,2,3,6-tetrahydropyridines, *J. Labelled Compd. Radiopharm.* **1997**, *39*, 409-423. [citations=4]
15. Castagnoli Jr. N, **Rimoldi JM**, Bloomquist J, Castagnoli KP. Potential Metabolic Bioactivation Pathways Involving Cyclic Tertiary Amines and Azaarenes. *Chem. Res. Tox.* **1997** *10*, 924-940. [citations=52]
16. Kingston, D.G.I., Chaudhary, A.G., Chordia, M.D., Gharpure, M., Gunatilaka, A.A.L., Higgs, P. I., **Rimoldi, J. M.**, Samala, L., Jagtap, P. G., Giannakakou, P., Jiang, Y.Q., Lin, C.M., Hamel, E., Long, B.H., Fairchild, C.R. and Johnston, K.A. Synthesis and Biological Evaluation of 2-Acyl Analogues of Paclitaxel (Taxol). *J. Med. Chem.*, **1998**, *41*, 3715-3726. [citations=60]
17. Schlenk, D., Stresser, D. M., **Rimoldi, J.**, Arcand, L., McCants, J., Nimrod, A. C. and Benson, W. H. Biotransformation and estrogenic activity of methoxychlor and its metabolites in channel catfish (*Ictalurus punctatus*). *Marine Environ. Res.*, **1998**, *46*, 159-162. [citations=19]
18. **Rimoldi JM**, Chimote SS. Inhibition of Inducible Nitric Oxide Synthase. *Current Opinion in Drug Development and Discovery* **1998** *2*, 183-191. [citations=4]
19. DeBusk, B. C.; Chimote, S. S.; **Rimoldi, J. M.**; Schenk, D. Effect of the dietary brominated phenol, lanosol, on chemical biotransformation enzymes in the gumboot chiton *Cryptochiton stelleri*. *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2000**, *127C*(2), 133-142. [citations=6]
20. Dunbar, DC, **Rimoldi, JM**, Clark AM, Kelly M, Hamann MT. Anti-cryptococcal and nitric oxide synthase inhibitory imidazole alkaloids from the Calcareous sponge *Leucetta cf chagosensis*. *Tetrahedron* **2000**, *56*, 8795-8798. [citations=22]
21. Beeler, A.B., Schlenk, D., **Rimoldi, J.M.** Synthesis of fipronil sulfide, an active metabolite, from the parent insecticide fipronil. *Tetrahedron Letters* **2001**, *42*, 5371-5372. [citations=5]
22. Schlenk, D.; Huggett, D. B.; Allgood, J.; Bennett, E.; **Rimoldi, J.**; Beeler, A. B.; Block, D.; Holder, A. W.; Hovinga, R.; Bedient, P. Toxicity of fipronil and its degradation products to *Procambarus sp.*: Field and laboratory studies. *Archives of Environmental Contamination and Toxicology* **2001**, *41*(3), 325-332. [citations=36]
23. Topliss, JG, Clark, AM, Ernst E, Hufford CH, Johnston GAR, **Rimoldi, JM** Weimann BJ. Natural and Synthetic Substances Related to Human Health. *Pure Appl. Chem.* **2002**, *74*, 1957-1985. [citations=12]

24. Gadepalli, R.S.V.S., **Rimoldi, J.M.**, Fronczek, F. R. 1- β -Hydroxycorticosterone hemihydrate, *Acta Cryst.* **2003**, *E59*, o1525-o1527.
25. Beeler, A.B., Gadepalli, R.S.V.S., Steyn, S., Castagnoli, N., Jr., **Rimoldi, J. M.** Synthesis and *In-Vitro* Biological Evaluation of Fluoro-Substituted-4-Phenyl-1,2,3,6-Tetrahydropyridines as Monoamine Oxidase B Substrates, *Bioorg. Med. Chem.*, **2003**, *11*, 5229-5234. **[citations=6]**
26. Gadepalli, R.S. V.S., Murty, M. S. R., Slauson, S., **Rimoldi, J. M.**, Fronczek, F. R. (+)-6-benzyl-17-oxosparteine, *Acta Cryst.*, **2003**, *E59*, o1832-o1834. **[citations=1]**
27. Butala H, Metzger C, **Rimoldi J**, Willett KL Microsomal estrogen metabolism in channel catfish. *Marine Env. Res.* **2004**, *58*, 489-94. **[citations=12]**
28. Tukov, F., **Rimoldi, J. M.**, Matthews, J. C. Characterization of the role of glutathione in repin-induced mitochondrial dysfunction, oxidative stress, and dopaminergic neurotoxicity in rat pheochromocytoma (PC12) cells. *NeuroToxicology*, **2004**, *25*, 989-999. **[citations=6]**
29. Tukov, FF, Anand, S, Gadepalli, RSVS, Gunatilaka, AAL, Matthews, JC, **Rimoldi, JM.** Inactivation of the cytotoxic activity of repin, a sesquiterpene lactone from *Centaurea repens*. *Chem. Res. Tox.* **2004**, *17*, 1170-1176. **[citations=9]**
30. Vera, T., Henegar, J.R., **Rimoldi, J. M.**, Stec, D. E. Protective Effect of Carbon Monoxide Releasing Compounds in Ischemia-Induced Acute Renal Failure. *J. Am. Soc. Neph.* **2005**, 950-958. **[citations=54]**
31. **Rimoldi, J. M.**, Puppali, S. G., Isin, E., Bissel, P., Khalil, A., Castagnoli, N., Jr. A novel and selective monoamine oxidase B substrate. *Bioorg. Med. Chem.*, **2005**, *13*, 5808-5813. **[citations=4]**
32. Ryan MJ, Jernigan NL, Drummond HA, McLemore GR, Jr., **Rimoldi JM**, Poreddy SR, Gadepalli RSV and Stec DE. Renal vascular responses to CORM-A1 in the mouse. *Pharmacological Research*, **2006**, *54*, 24-29. **[citations=11]**
33. Sridar C, Kobayashi Y, Brevig H, Kent UM, Puppali SG, **Rimoldi JM**, Hollenberg PF. Synthesis of Substituted Phenyl Diaziridines and Characterization as Mechanism-Based Inactivators of Human Cytochrome P450 2B6. *Drug Met. Disp.* **2006**, *34(11)*, 1849-1855. **[citations=2]**
34. Kobayashi Y, Sridar C, Kent UM, Puppali, SG, **Rimoldi JM**, Zhang H, Waskell L and Hollenberg PF. Structure-Activity Relationship and Elucidation of the Determinant Factor(s) Responsible for the Mechanism-Based Inactivation of P450 2B6 by Substituted Phenyl Diaziridines. *Drug Met. Disp.* **2006**, *34(12)*, 2102-2110. **[citations=3]**

35. Choi, S-R, Beeler AB, Pradhan A, Watkins EB, **Rimoldi JM**, Tekwani B, Avery MA. Generation of Oxamic Acid Libraries: Antimalarials and Inhibitors of *Plasmodium falciparum* Lactate Dehydrogenase. *J. Comb. Chem.*, **2007**, *9*(2), 292-300. [citations=5]
36. Gadepalli RSVS, **Rimoldi JM**, Fronczek FR, Nillos M, Gan J, Deng X, Rodriguez-Fuentes G,; Schlenk D. Synthesis of Fenthion Sulfoxide and Fenoxon Sulfoxide Enantiomers: Effect of Sulfur Chirality on Acetylcholinesterase Activity. *Chem. Res. Toxicol.* **2007**, *20*(2), 257-262. [citations=8]
37. Bawardi O, **Rimoldi J**, Schlenk D. Impacts of hypersaline water on the biotransformation and toxicity of fenthion on rainbow trout (*Oncorhynchus mykiss*), striped bass (*Morone saxatilis X Morone chrysops*) and tilapia (*Oreochromis mossambicus*), *Pesticide Biochemistry and Physiology* **2007**, *88*, 321-327. [citations=2]
38. Stec DE, Bishop C, **Rimoldi JM**, Poreddy SR, Vera T, Salahudeen, AK. Carbon Monoxide (CO) Protects Renal Tubular Epithelial Cells against Cold-Rewarm Apoptosis. *Renal Failure* **2007**, *29*, 543-548. [citations=1]
39. Zabalgoitia M, Colston JT, Reddy SV, Holt JW, Regan RF, Stec DE, **Rimoldi JM**, Valente AJ, Chandrasekar B. Carbon monoxide donors or heme oxygenase-1 (HO-1) overexpression blocks interleukin-18-mediated NF-KB-PTEN-dependent human cardiac endothelial cell death. *Free Radical Biology & Medicine* **2008**, *44*, 284-298. [citations=11]
40. Stec D, Vera T, McLemore Jr. GR, Kelsen S, **Rimoldi JM**, Gadepalli, RSV, Ryan MJ. Heme oxygenase-1 induction does not improve vascular relaxation in angiotensin II hypertensive mice. *American Journal of Hypertension* **2008**, *21*, 189 – 193. [citations=5]
41. Bissel P, Khalil A, **Rimoldi JM**, Igarashi K, Edmondson D, Miller A, Castagnoli N, Jr. Stereochemical Studies on the Novel Monoamine Oxidase B Substrates (1*R*,6*S*)- and (1*S*,6*R*)-3-Methyl-6-phenyl-3-aza-bicyclo[4.1.0]heptane. *Bioorganic Medicinal Chemistry*, **2008**, *16*, 3557-3564. [citations=1]
42. Hosgood SA, Bagul A, Kaushik M, **Rimoldi J**, Gadepalli RS, Nicholson ML. Application of nitric oxide and carbon monoxide in a model of renal preservation. *British J. Surgery* **2008** *95*, 1060-1067. [citations=2]
43. Slauson SR, **Rimoldi JM**, Fronczek FR. Antalarmin. *Acta Cryst.* **2008**. *E64*, o1650-o1651. [citations=1]
44. Mallela J, Perkins R, Yang J, Pedigo S, **Rimoldi JM**, Shariat-Madar Z. The functional importance of the N-terminal region of human prolylcarboxypeptidase. *Biochem. Biophys. Res. Commun.* **2008**, *374*, 635-640. [citations=1]

45. Kelsen S, Patel BJ, Parker LB, Vera T, **Rimoldi JM**, Gadepalli RSV, Drummond HA, Stec DE. Heme oxygenase attenuates angiotensin-II mediated superoxide production in cultured mouse thick ascending loop of Henle cells. *Am. J. Physiol. Renal Physiol.* **2008**, *295*, 1158-1165. [citations=3]
46. Majumdar S, Hingorani T, Srirangam R, Gadepalli RS, **Rimoldi JM**, Repka MA. Transcorneal permeation of L- and D-aspartate ester prodrugs of acyclovir: Delineation of passive diffusion versus transporter involvement. *Pharmaceutical Research*, **2009**, *26*, 1261-1269. [citations=4]
47. Sukfa KJ, Warnick JE, Pulaski CN, Slausson SR, Kim YB, **Rimoldi JM**. Antidepressant efficacy screening of novel targets in the chick anxiety-depression model. *Behavioural Pharmacology* **2009** *20*, 146-154.
48. Lavado R, **Rimoldi JM**, Schlenk D. Mechanisms of fenthion activation in rainbow trout (*Oncorhynchus mykiss*) acclimated to hypersaline environments. *Toxicology and Applied Pharmacology* **2009** *235*, 143-152. [citations=1]
49. Karamyan VT, Gadepalli R, **Rimoldi JM**, Speth RC. Brain AT1 angiotensin receptor subtype binding: importance of peptidase inhibition for identification of angiotensin II as its endogenous ligand. *J. Pharmacol. Exp. Ther.* **2009**, *331*, 170-177. [citations=3]
50. Kamel HN, Kim YB, **Rimoldi JM**, Fronczek FR, Ferreira D, Slattery M. Scalarane Sesterterpenoids: Semisynthesis and Biological activity. *J. Nat. Prod.* **2009**, *72*, 1492-1496. [citations=1]
51. Csongradi E, Vera T, **Rimoldi JM**, Gadepalli RSV, Stec DE. In vivo inhibition of renal heme oxygenase with an imidazole-dioxolane inhibitor. *Pharmacological Research* **2010**, *61*, 525–530.
52. Evans AN, **Rimoldi JM**, Gadepalli RS, Nunez BS. Adaptation of a corticosterone ELISA to demonstrate sequence-specific effects of angiotensin II peptides and C-type natriuretic peptide on 1 α -hydroxycorticosterone synthesis and steroidogenic mRNAs in the elasmobranch interrenal gland. *J Steroid Biochem Mol Biol.* **2010**, *120*, 149–154.
53. Paul S, Mizuno CS, Lee HJ, Zheng X, Chajkowisk S, **Rimoldi JM**, Conney A, Suh N, Rimando AM. In vitro and in vivo studies on stilbene analogs as potential treatment agents for colon cancer. *Eur. J. Med. Chem.* **2010**, *45*, 3702-3708.

Continuing Education Articles

1. **Rimoldi JM.** Focusing on Glaucoma. *Drug Topics* **1999** August 2, 67-76.
2. **Rimoldi JM.** Thyroid function and dysfunction. *Drug Topics* **1996** 140:20 , 78-87.

Patents-Patent Applications

1. D. G. I. Kingston, A. G. Chaudhary, M. M. Gharpure and **J. M. Rimoldi**, Gunatilaka, A.A.L, "Methods for making 2-debenzoyl and -2-acyl taxol derivatives" **U.S. Patent Number 5,614,645, March 25, 1997.**
2. D. G. I. Kingston, A. G. Chaudhary, M. M. Gharpure and **J. M. Rimoldi**, Gunatilaka, A.A.L, "2-debenzoyl-2-acyltaxol derivatives and methods for making same" **Eur. Pat. Appl., EP 94-103622, 1997.**
3. D. G. I. Kingston, A. G. Chaudhary, M. M. Gharpure, A. A. Leslie Gunatilaka, J. M. Rimoldi, "2-debenzoyl-2-acyltaxol Derivatives and Methods for Making Same" **US Patent Number 6,002,023, December 14, 1999.**
4. Slattery, M, **Rimoldi, JM**, Ankisetty, S. "Antibacterial and antifungal *Dysidea Granulosa* Compounds and Methods for Their Use," **February 13, 2006.**

Publications-Teaching

1. Williamson, J. S., **Rimoldi, J.**, Borne, R. F., Fuller, N. F. Literature Retrieval and Interpretation: A Nontraditional Medicinal Chemistry Laboratory. *J. Pharmacy Teaching* 6(4), 17-38, **1998.**
2. **Rimoldi, JM.** Establishing Equilibrium during the Pre-Tenure Years: A Chemist's Perspective in a School of Pharmacy. *J. Pharmacy Teaching* **2002**, 9, 9-17. Co-Published in "Handbook for Pharmacy Educators: Getting Adjusted as a New Pharmacy Faculty Member", S. Desselle, D. P. Hammer, Eds., Haworth Press, Inc, New York, **2002.**

Book Reviews

1. **Rimoldi, J. M.** "Medicinal Natural Products: A Biosynthetic Approach" Dewick, P., *J. Nat. Prod.* **1998**, 61, 1178-1179.
2. **Rimoldi, J. M.** "Novel Therapeutic Proteins" Dembowsky, Stadler, *Am. J. Pharm. Ed.*, **2002**, 66, 355.

3. **Rimoldi J.** "The Art of Chemistry: Myths, Medicines, and Materials" *Am J Pharm Educ.* **2003**; 67(2).
4. **Rimoldi, JM.** "Enzyme Inhibition in Drug Discovery and Development. The Good and the Bad". *J. Med. Chem.*, **2010**, XXX, XXX-XXX.

Conference Abstracts

1. **J. M. Rimoldi** and G. B. Trimitsis, "Synthesis and Base Catalyzed Hydrogen-Deuterium Exchange of Certain Bicyclic Hydrocarbons", ACS Student Affiliate Symposium, Duquesne University, Pittsburgh, Pennsylvania, 1989.
2. **J. M. Rimoldi** and D. G. I. Kingston, "The Preparation of Photoaffinity Labeled Taxol Analogs: Useful Probes for the Investigation of the Microtubule Receptor". International Research Congress on Natural Products and 32nd Annual Meeting of the American Society of Pharmacognosy, Chicago, Illinois, July 1991. Abstract P69.
3. **J. M. Rimoldi**, D.G. I. Kingston, and E. Hamel, "Preparation of Photaffinity Labeled Taxol Derivatives", 33rd Annual Meeting of the American Society of Pharmacognosy, Williamsburg, Virginia, August 1992. Abstract O10.
4. S. Grover, **J. Rimoldi**, D. Kingston, and E. Hamel., "Differential Effects of Taxol Analogs Modified at Positions c(7) and c(3') on Tubulin Polymerization and Polymer Stabilization", Annual Meeting of the American Association of Cancer Research, Orlando, Florida, May 1993.
5. D. G. I. Kingston, A. G. Chaudhary, and **J. M. Rimoldi**, "Synthesis of Deoxytaxols", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, California, August 1993.
6. **J. M. Rimoldi** and D. G. I. Kingston, "Lewis Acid Mediated Oxetane Ring-Opening Reactions of Taxol", 45th ACS Southeast Regional Meeting, Johnson City, Tennessee, October 1993.
7. David G. I. Kingston, M. O. Chordia, A. G. Chaudhary, **J. M. Rimoldi**, K. A. Neidigh, M. Gharpure, and A. A. L. Gunatilaka , "Studies of Modified Taxols: The Southern Hemisphere", International Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, Canada, August, 1994, O44.

8. S. Kuttab, M. Stanton, **J. Rimoldi**, and N. Castagnoli, Jr., "Mechanistic Studies on the Monoamine Oxidase Catalyzed Oxidation of 1,4-Disubstituted Tetrahydropyridines", 6th Cyprus Conference on New Methods in Drug Research, Limassol, Cyprus, May 8-14, 1994.
9. **J. Rimoldi**, S. Kuttab, K. Castagnoli, and N. Castagnoli, Jr., "Isotope effects in the Monoamine Oxidase Catalyzed Oxidation of Cyclic Tertiary Amines", 5th International Symposium on the Synthesis and Applications of Isotopes and Isotopically Labelled Compounds, Strasbourg, France, June 20-24, 1994.
10. Y. X. Wang, **J. M. Rimoldi**, S. K. Nimkar, A. H. Anderson, H. E. Burch, S. H. Kuttab, and N. Castagnoli Jr., "Structure-Activity Relationship Studies on 4-Substituted 1-Cyclopropyl-1,2,3,6-Tetrahydropyridine Derivatives: Probing the Catalytic Mechanism of MAO-B", Sixth North American ISSX Meeting, Raleigh, North Carolina, October 23-27, 1994.
11. M. Stanton, **J. Rimoldi**, and N. Castagnoli, Jr., "Synthesis of Selectively Deuterated MPTP Analogs and Subsequent Enzyme Kinetic Isotope Effect Studies with MAO Catalysis", 15th Annual Undergraduate Research Symposium, American Chemical Society, Student Affiliate Chapter, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, March 31-April 1, 1995.
12. N. Paul, K. Castagnoli, H. Bai, **J. Rimoldi**, and N. Castagnoli, Jr., "Synthesis, Substrate Properties and Biological Evaluation of a Pyrrole Analog of the Pro-Neurotoxin 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine (MPTP)", 15th Annual Undergraduate Research Symposium, American Chemical Society, Student Affiliate Chapter, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, March 31-April 1, 1995.
13. H. Burch, **J. Rimoldi**, and N. Castagnoli, Jr., "Synthesis and Biological Evaluation of the MPTP Structural Analog of 1-Cyclopropyl-4-Thiophenoxy-1,2,3,6-Tetrahydropyridine" 15th Annual Undergraduate Research Symposium, American Chemical Society, Student Affiliate Chapter, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, March 31-April 1, 1995.
14. N. Castagnoli, Jr., S. Kuttab, **J. Rimoldi**, A. Anderson, J. Bloomquist, and K. Castagnoli, "Dopaminergic Neurotoxicity: Chemical and Biological Requirements", The Role of the Environment in Parkinson's Disease Workshop, Research Triangle Park, North Carolina, September 18-19, 1995.
15. N. Castagnoli, Jr., S. Nimkar, , **J. Rimoldi**, A. Anderson, C. Franot, Stanton, M., Castagnoli, K., "Mechanistic Studies on the MAO-B Catalyzed Oxidation of 1,4-Disubstituted Tetrahydropyridines", First Division of Chemical Toxicology Symposia, 212th ACS National Meeting, Orlando, Florida, August 1996.
16. Chimote, S., **Rimoldi, J. M.** "Design and Synthesis of Structurally Unique Nitric Oxide Synthase Inhibitors/Substrates: Investigation of Conformational Binding Preferences" Sigma

Xi Undergraduate/Graduate Student Poster Symposium, The University of Mississippi, April, 1997.

17. Chimote, S., Walker, L., Pratt, K., **Rimoldi, J. M.** Nitric Oxide Synthase: Substrate and Inhibitor Design Strategies. The 24th Annual MALTO Medicinal Chemistry and Pharmacognosy Meeting, Little Rock, AR, May 18-20, 1997.

18. Ceesay, M. and **Rimoldi, J. M.** Linear Alkyne Arginine Analogs As Substrates-Inhibitors of Inducible Nitric Oxide Synthase. 19th Annual Undergraduate Research Seminar, Morgantown, WV, October 17-19, 1997.

19. Beeler, A., Molinero, A. A., and **Rimoldi, J. M.** The Asymmetric Synthesis of (-)-Carnosadine: A Conformationally Restricted Arginine Derivative for Nitric Oxide Synthase. 19th Annual Undergraduate Research Seminar, Morgantown, WV, October 17-19, 1997.

20. Schlenk, D., Stressor, D. M., Arcand, L., McCants, J., Nimrod, A. C., **Rimoldi, J.**, and Benson, W. H. Biotransformation and Estrogenic Activity of Methoxychlor and its Metabolites in Channel Catfish (*Ictalurus Punctatus*). 18th Annual Meeting of the Society of Environmental Toxicology and Chemistry, San Francisco, November 17-21, 1997.

21. Kingston, David G. I.; Chaudhary, Ashok G.; Chordia, Mahendra D.; Gharpure, Milind; Gunatilaka, A. A. Leslie; Higgs, Paul I.; Rimoldi, John M.; Samala, Lakshman; Jagtap, Prakash G.; Giannakakou, Paraskevi; Jiang, Yuan Q.; Lin, Chii M.; Hamel, Ernest; Long, Byron H.; Fairchild, Craig R.; Johnston, Kathy A. **Synthesis and Biological Evaluation of 2-Acyl Analogs of Paclitaxel (Taxol)**. *Journal of Medicinal Chemistry* (1998), 41(19), 3715-3726.

22. **Rimoldi JM**, Chimote SS, Nimrod AC, Walker LA, Marletta MA. Conformationally Restricted Aliphatic L-arginine Congeners As Substrates And/Or Inhibitors Of Nitric Oxide Synthase., 26th National Medicinal Chemistry Symposium, Richmond, VA, June 14-18, 1998.

23. Robinson MB, Chimote SS, **Rimoldi JM**. Synthesis and biological evaluation of geometrically constrained L-arginine analogs for inducible nitric oxide synthase. 20th Annual Merck Pharmacy Student Research Conference, Morgantown, WV, October 17, 1998 (Paper 32).

24. Trogden B, Heltzel CE, **Rimoldi JM**. Asymmetric synthesis of differentially protected 2,3-disubstituted azetidines. 20th Annual Merck Pharmacy Student Research Conference, Morgantown, WV, October 17, 1998 (Paper 31).

25. Trogden B, Heltzel CE, **Rimoldi JM**. Synthesis of Chiral Building Blocks: Differentially protected 2,3-disubstituted azetidines, ACS National Meeting, Anaheim, California, 1999.

26. Trogden B, Heltzel CE, **Rimoldi JM**. Synthesis of Chiral Building Blocks: Differentially protected 2,3-disubstituted azetidines, ACS National Meeting, University of Kentucky

Regional Poster Competition, April 24, 1999 (2nd Place Award) B. Trogden, Undergraduate Student.

27. Design and Synthesis of Fluorinated MPTP Derivatives as Potential Substrates for Monoamine Oxidase B. Aaron B. Beeler, **Rimoldi, JM**, and Neal Castagnoli, Jr, 9th North American International Society for the Study of Xenobiotics Meeting, Co sponsored by ACS/DCT, Nashville TN, October 1999.

28. Weston, J., Huggett, D.B., **Rimoldi, J**, Foran, C.M., Slattery, M. 2001. Determination of fluoxetine (Prozac) and norfluoxetine in aquatic environments. Society of Toxicology and Chemistry 22nd Annual Meeting in North America, Baltimore, MD. November 11 –15, 2001.

29. Butala, H., Metzger, C., **Rimoldi, J.**, and Willett, K.L. Comparison of (*in vitro*) estrogen metabolism in two species of catfish. Mid-South Society of Environmental Toxicology and Chemistry Meeting, Vicksburg, MS June 2002.

30. Butala, H., Metzger, C., **Rimoldi, J.**, and Willett, K.L. CYP1B mRNA expression and estrogen metabolism in channel catfish. 23rd National Society of Environmental Toxicology and Chemistry Meeting, Salt Lake City, UT November 2002.

31. Isolation of Biologically Active Compounds from *Centaurea repens* and their Cytotoxic Activities in Rat Adrenal Pheochromocytoma (PC-12) Cells. Francis Turkov, R.V.S. Gadepalli, L.A.A. Gunatillaka, **J. M. Rimoldi**, and J.C. Matthews. SETAC 2003.

32. Poreddy, Sambasiva R.; **Rimoldi, John M.** Catalytic asymmetric cyclopropanation using polymer-supported rhodium(II) catalysts. Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), ORGN-149.

33. Murty, Madugula S. R.; **Rimoldi, John M.** Synthesis and application of polymer-supported (-)-sparteine as an external chiral ligand. Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), ORGN-142.

34. Odom, Lindsay; **Rimoldi, John M.**; Beeler, Aaron B. Alkylation and cyclization reactions of diazoketones: Synthesis of substituted azetidines. Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-274.

35. Anand, S.; **Rimoldi, John M.**; Tukov, Francis F.; Matthews, John C. Structure-activity/toxicity relationship studies of the sesquiterpene lactone repin. Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-096

36. Kim, Young B.; Beeler, Aaron B.; **Rimoldi, John M.** Synthesis of novel azetidines as potential PKC inhibitors: Solution and solid-phase approaches. Abstracts of Papers, 225th

ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-072.

37. Harshala Butala, Christine Metzger, **John Rimoldi**, Kristine L. Willett MICROSOMAL ESTROGEN METABOLISM IN CHANNEL CATFISH. 12th Annual Pollutant Responses in Marine Organisms (PRIMO), Safety Harbor, Florida, May 9-13, 2003.

38. BC DeBusk, A Beeler, **JM Rimoldi**, M Slattery, D Schlenk EFFECTS OF THE FEEDING DETERRENT AND SPONGE NATURAL PRODUCT 4, 5-DIBROMOPYRROLE-2-CARBOXYLIC ACID ON BIOTRANSFORMATION ENZYMES IN A NONSPONGIVOROUS AND SPONGIVOROUS FISH. 12th Annual Pollutant Responses in Marine Organisms (PRIMO), Safety Harbor, Florida, May 9-13, 2003.

39. Odom, Lindsay; Kim, Young B.; **Rimoldi, John M.** Synthesis of chiral tetrahydrofuranones, tetrahydrothiophenones, and azetidinones via rhodium (II)-catalyzed cyclization reactions. Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), ORGN-141.

40. Anand, S.; Das, Udayan; Kuntz, Douglas A.; Rose, David R.; **Rimoldi, John M.**; Siriwardena, Aloysius. Design and synthesis of inhibitors of human golgi α -mannosidase II based on the azasugar swainsonine. Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), MEDI-248.

41. Protection from cisplatin-induced acute renal failure with a carbon monoxide donor, CORM-3. T. Vera, J. R. Henegar, **J. M. Rimoldi** and D. E. Stec. Experimental Biology 2005 and XXXV International Congress of Physiological Sciences, Abstract # 351.29, San Diego, CA, March 31-April 5, 2005.

42. Schlenk D., Bawardi O., Furnes B., **Rimoldi J.** MECHANISMS OF STEREOSELECTIVE SULFOXIDATION AND TOXICITY OF THE ORGANOPHOSPHATE, FENTHION, IN THREE FISH SPECIES. 13th Annual Pollutant Responses in Marine Organisms (PRIMO), Alessandria, Italy, June, 19-22 2005.

43. Enantiomeric sulfoxidation of the organophosphate pesticide fenthion in fish Ola Bawardi, Bjarte Furnes, **John M. Rimoldi**, Daniel Schlenk. Abstracts of Papers, 230th ACS National Meeting, Washington DC, United States, August 28-Sept 1, 2005 (2005), AGRO-68

44. Mechanism-based inactivation of human cytochrome P450 2B6 by substituted phenyl diaziridines. Satish Goud Puppali, **John M. Rimoldi**, Chitra Sridar, Yoshimasa Kobayashi, and Paul F. Hollenberg Abstracts of Papers, 230th ACS National Meeting, Washington DC, United States, August 28-Sept 1, 2005 (2005), TOXI-93.

45. Inhibitors of parasitic cysteine proteases: Homology modeling, de novo design and virtual screening. Mitchell Avery, Prashant V. Desai, Amar Chittiboyina¹ Akshay Patny,

Anjaneyulu Sheri, Paulo Carvalho, Yogesh A Sabnis, Raji Reddy, Satish Goud Puppali, **John M. Rimoldi**, Anuradha Srivastava, Babu L. Tekwani, Jiri Gut, and Philip J. Rosenthal. Abstracts of Papers, 230th ACS National Meeting, Washington DC, United States, August 28-Sept 1, 2005 (2005), MEDI-268.

46. Synthesis of fenthion sulfoxide and fenoxon sulfoxide enantiomers: Effect of sulfur chirality on acetylcholinesterase activity. Rama Sarma Gadepalli, Mae Nillos, Jay Gan, Daniel Schlenk, Frank R. Fronczek, and **John M. Rimoldi**. Abstracts of Papers, 230th ACS National Meeting, Washington DC, United States, August 28-Sept 1, 2005 (2005), TOXI-94.

47. Yoshimasa Kobayashi, Chitra Sridar, Ute M. Kent, Satish G. Puppali, **John Rimoldi** and Paul F. Hollenberg STRUCTURE-ACTIVITY RELATIONSHIPS FOR THE MECHANISM-BASED INACTIVATION OF CYTOCHROME P450 2B6 BY ARYL DIAZIRIDINES. 13th North American ISSX Meeting/20th JSSX Meeting, Maui, Hawaii | October 23-27, 2005.

48. Sarah Hosgood, Atul Bagul, Monika Kaushik, Helen Waller, **John Rimoldi**, Michael Nicholson. THE EFFECTS OF NITRIC OXIDE AND CARBON MONOXIDE IN RENAL PRESERVATION Society of Academic and Research Surgery (SARS) 2007 Annual Meeting, Robinson College, Cambridge UK, 10 -12 January 2007, P3.

49. Sarah Hosgood, Atul Bagul, Monika Kaushik, Rupaly Pande, **John Rimoldi**, Michael Nicholson. THE EVALUATION OF CARBON MONOXIDE CONCENTRATIONS IN AN ISOLATED PORCINE KIDNEY MODEL. Society of Academic and Research Surgery (SARS) 2007 Annual Meeting, Robinson College, Cambridge UK, 10 -12 January 2007, P38.

50. Atul Bagul, Sarah Hosgood, Rupali Pande, Monika Kaushik, Hellen Waller, Rama Sarma Gadepalli, **John Rimoldi**, Michael Nicholson. Effects Of Carbon Monoxide Releasing Molecule (CORM-3) On Reperfusion In A Controlled Non Heart Beating Donor (NHBD) Haemoperfused Porcine Kidney Model. British Transplantation Society, 10th Annual Congress, March 28-30, 2007, Manchester, UK. P55.

51. Sarah Hosgood, Atul Bagul, Monika Kaushik, Rupaly Pande, **John Rimoldi**, Rama Sarma Gadepalli, Michael Nicholson. The Evaluation Of Carbon Monoxide Concentrations In An Isolated Porcine Kidney Model. British Transplantation Society, 10th Annual Congress, March 28-30, 2007, Manchester, UK. P57.

52. Sarah Hosgood, Atul Bagul, Helen Waller, **John Rimoldi**, Rama Sarm Gadepalli, Michael Nicholson. The Effects of Nitric Oxide and Carbon Monoxide in Renal Preservation. British Transplantation Society, 10th Annual Congress, March 28-30, 2007, Manchester, UK. P58.

53. A. Bagul, S. Hosgood, M. Kaushik, R. S. Gadepalli, **J. Rimoldi**, M.EFFECTS OF CARBON MONOXIDERELEASEING MOLECULE (CORM-3) ON REPERFUSION IN A CONTROLLED NONHEARTBEATING DONOR (NHBD) HAEMOPERFUSED PORCINE KIDNEYMODEL. Nicholson.

Association of Surgeons of Great Britain and Ireland ANNUAL SCIENTIFIC MEETING 2007, April 18-20, 2007, Manchester, UK (0458)

54. S. A. Hosgood, A. Bagul, H. L. Waller, **J. Rimoldi**, M. L. Nicholson. THE EFFECTS OF NITRIC OXIDE AND CARBON MONOXIDE IN RENAL PRESERVATION Association of Surgeons of Great Britain and Ireland ANNUAL SCIENTIFIC MEETING 2007, April 18-20, 2007, Manchester, UK (0674)

55. THE EVALUATION OF CARBON MONOXIDE CONCENTRATIONS IN AN ISOLATED PORCINE KIDNEY MODEL S. A. Hosgood*, A. Bagul, M. Kaushik, R. Pande, **J. Rimoldi**, M L Nicholson. Association of Surgeons of Great Britain and Ireland ANNUAL SCIENTIFIC MEETING 2007, April 18-20, 2007, Manchester, UK (0681).

56. V.T. Karamyan, R.S. Gadepalli, **J.M. Rimoldi** and R.C. Speth. Preservation of ¹²⁵I-angiotensin II in brain AT1 receptor binding assays. Experimental Biology Annual Meeting, April 28-May 7, 2007, Washington, DC, (B113:571.3).

57. Young B. Kim, **John M. Rimoldi**. HETEROATOM INSERTION REACTIONS OF METAL CARBENOID: CHIRAL BUILDING BLOCKS FOR NATURAL PRODUCT SYNTHESIS, 34th Annual MALTO Meeting, Monroe, LA, May 20-22, 2007.

58. Vanildo M. L. Braga, **John M. Rimoldi** APPROACHES TOWARDS THE TOTAL SYNTHESIS OF BRADYOXETIN 34th Annual MALTO Meeting, Monroe, LA, May 20-22, 2007.

59. POLYBROMINATED DIPHENYL ETHERS (PBDE's) FROM MARINE INVERTEBRATES: I. BIOLOGICAL CHARACTERIZATION Sridevi Ankisetty, Mohamed Radwan, Susan Manly, Samir Ross, Mohammad Ashfaq, **John Rimoldi** and Marc Slattery. American Society of Pharmacognosy 48th National Meeting, Portland, Maine, July 14-18, 2007. (P-026S)

60. POLYBROMINATED DIPHENYL ETHERS (PBDE's) FROM MARINE INVERTEBRATES: I. CHEMICAL CHARACTERIZATION Mohamed Radwan, Sridevi Ankisetty, Susan Manly, **John Rimoldi**, Samir Ross, and Marc Slattery American Society of Pharmacognosy National Meeting, Portland, Maine, July 14-18, 2007. (P-117M).

Invited Lectures

1. *Taxol: From Yew to You*, Department of Chemistry, University of Pittsburgh at Johnstown, April 1994.
2. *Nitric Oxide Synthase Design Strategies*, Department of Chemistry, The University of Memphis, Memphis, TN, April 1997.
3. *Nitric Oxide Synthase and Nitric Oxide*, Department of Medicinal Chemistry, The University of Mississippi, University, MS, April 1997.
4. *Nitric Oxide and Nitric Oxide Synthase: Just Say NO!*, Department of Chemistry and Physics, Bloomsburg University, Bloomsburg, PA, September 1997.
5. *Nitric Oxide and Nitric Oxide Synthase: Just Say NO!*, Department of Chemistry, Transylvania University, Lexington, KY, October 1997.
6. *Nitric Oxide and Nitric Oxide Synthases*: Department of Chemistry, Virginia Polytechnic Institute and State University, November 1998.
7. University of Tennessee at Memphis, Department of Medicinal Chemistry. "Small Molecule Probes for Elucidating Enzyme Function", November 1999.
8. University of Mississippi Department of Pharmacognosy, "Small Molecule Probes for Monoamine Oxidase B, February, 2000.
9. Teaching Medicinal Chemistry in the PharmD curriculum, invited lecture, AACP National Meeting, San Diego, CA, July 2000.
10. Appalachian State University, Automated Synthesis, Purification, and Analysis Strategies: The New Medicinal Chemistry Paradigm, October 11, 2002.
11. Transylvania University, Contemporary vs. Conventional Medicinal Chemistry, February 12, 2003.
12. University of Kentucky, American Chemical Society Local Section Seminar, "Automated Synthesis, Purification, and Analysis Strategies: The New Medicinal Chemistry Paradigm", February 13, 2003.
13. Delta State University, "Contemporary Medicinal Chemistry", February 2004.

14. Texas Tech University, 2 Day short course on Combinatorial Chemistry, April 2004 and April 2006
15. Montana State University, "Chemistry of rhodium (II): Synthesis of novel ring systems and polymer supported catalysts" April 2005.
16. Hyderabad, India, Invited Platform Presentation, INDO-US Conference, "Rhodium II catalyzed insertion reactions: Synthesis of chiral tetrahydrofurans and azetidines", November 2006.
17. University of California, Riverside, " Design, Synthesis, and Biological Evaluation of Diaziridine Mechanism-Based Inactivators of CYP2B6", Department of Environmental Sciences, June 2007.
18. University of Tennessee Health Sciences Center "" Design, Synthesis, and Biological Evaluation of Diaziridine Mechanism-Based Inactivators of CYP2B6", April 2009.

V. Service to Discipline (Chemistry/Pharmacy)

Grant Reviewer

Department of Defense Breast Cancer Research Program, Grant Application Reviewer, "Clinical & Experimental Therapeutics", July 2008-2010.

NIH-NIAID, "Mechanisms, Diagnosis, and Treatment of Radiation Injury from a Nuclear Accident or Terrorist Attack", May 5-7, 2008.

NIH-SBIR/STTR program, "Drug Discovery and Development" 1-2 study sections per year. 1998-2011.

National ACS Division of Medicinal Chemistry Graduate Fellowship Selection Committee 2000-2003.

NIH NSRA Postdoctoral Fellowship Study Section 2001, 2002 and 2008.

Louisiana Board of Regents Research Competitiveness Subprogram (RCS) Grant Application Reviewer, 2006-2010

Philip Morris External Research Program Grant Application Reviewer, 2006-2007.

Kentucky Science & Engineering Foundation Research & Development Excellence Program, Grant Application Reviewer, 2006-2010

Manuscript Reviewer for:

American Journal of Pharmaceutical Education
Bioorganic and Medicinal Chemistry
Bioorganic and Medicinal Chemistry Letters
Biotechnology Progress
Chemical and Engineering Letters
Chemical Research in Toxicology
Chirality
Drug Target Insights
Expert Opinion on Therapeutic Patents
Heteroatom Chemistry
Journal of Agricultural and Food Chemistry
Journal of the American Chemical Society

Journal of Chemical Education
Journal of Medicinal Chemistry
Journal of Natural Products
Journal of Organic Chemistry
Microbiology Research
Neurochemical Research
Neurotherapeutics
Organic Letters
Planta Med
Tetrahedron Letters
The Rx Consultant

Professional Organizational Membership

American Chemical Society (1988-present, member)
Member, Division of Medicinal Chemistry
Member, Division of Organic Chemistry
Member, Division of Chemical Toxicology
Chairman, UM Chapter, 1997-1998

American Association of Colleges of Pharmacy (1995-present, member)
National Secretary, Section of Chemistry, 2002-2004
National Mentoring Committee, 1997-2003

Sigma Xi, University of Mississippi Chapter (1995-present, member)
National Committee on Qualifications & Membership (2001-2003)
President, UM Chapter, 2001-2002
Treasurer, UM Chapter, 2003-2005

Rho Chi, Chi Chapter, National Pharmaceutical Honor Society (1995-present, member)

Phi Lambda Sigma, Pharmacy Leadership Society, 2002-present

International Union of Pure and Applied Chemistry, 2002-present

Kappa Psi Pharmaceutical Fraternity, Beta Rho Chapter Faculty Advisor

VI. SERVICE

University of Mississippi

- Faculty Senate, School of Pharmacy Representative (1998-2000)
- Faculty Senate, General Academic Affairs Committee, member, (1998-2000)
- Library Council, standing committee member (1998-1999) and (2002-)
- Housing of Faculty and Staff, standing committee member (1997-1999)
- University Student Affairs Committee member (1999-2001)
- University Graduate Council, School of Pharmacy Representative (2002-2006)
- University IACUC Committee (2001-2004)
- Research Advisory Council, member, (2000-2001)
- UM Environmental Task Force (2008-)

School of Pharmacy, University of Mississippi

- *Honors, Awards, and Commencement Committee (1996-2001 and 2006-2008)*
Chairman, Teaching Awards Subcommittee (1996-1997)
Vice Chair 1998-1999
Chair 1999-2001
- *Scholastic Standards Committee (1998-2001)*
Vice-Chair 1999-2000
- *Seminar Committee (1998-2001)*
Vice Chair 1998-1999
Chair 1999-2001
- *Student/Faculty Relations Committee (1998-2001)*
Chairman (1998-1999)
- *Library Committee (1996-2001)*
Chairman (1999-2000)
- *Assessment Committee (2006-present)*
- *Graduate Affairs Committee (2001-2004)*
Chairman (2002-2003)
- *Faculty Council (2001-2004 and 2007-2008)*
Vice-Chair (2003-2004)
Secretary (2007-2008)

Non-Routine Service to the University

University Goldwater Scholarship Committee (2001-present)
Graduate Coordinator, Medicinal Chemistry Department (2001-2006)
University of Mississippi National Scholarship Advisory Committee (2005-present)
School of Pharmacy ACPE Self Study, Student Affairs Subcommittee (1999-2000)
School of Pharmacy ACPE Self Study Committee, Student Affairs Subcommittee member (1998-1999)
School of Pharmacy ACPE Self Study, Curriculum Subcommittee (2005-2006)
Search Committee, Environmental Toxicology Coordinator (2000-2001)
Search Committee, Medicinal Chemistry Faculty position (2000-2001)
Search Committee, Natural Products Center Director (2002)
Search Committee, University Veterinarian (2002)
Search Committee Chairman, Medicinal Chemistry Faculty (2003-2004)
Search Committee Chairman, Medicinal Chemistry Chair (2005-2006)
Webmaster, Medicinal Chemistry (2000-present)
Mississippi Regional Junior Science and Humanities Symposium Judge (1997-2001)
Sigma Xi Student Research Symposium Judge (1997-2007)
Mississippi Region 7 Science Fair
 1996-1997 (Science Fair Judge)
 1998-1999 (Science Fair Judge and Judge Coordinator)
 2000-2002 (Science Fair Coordinator and Scientific Review Chairman)
Biomedical Research Internship Committee (Dr. Williamson, program director) 1997-2000.
2000 Mississippi State Science Fair Best of Fair Judge, Greenville Mississippi.
Mississippi Academic Invitational Tournament (MAIT) Judge, April 1999.

VII. GRANTS AND CONTRACTS

Completed

Startup funds provided by the University of Mississippi (1995); \$35,000

TITLE: "The Design and Construction of Chiral Intermediates for the Synthesis of Biologically Active Compounds"

PRINCIPAL INVESTIGATOR: John M. Rimoldi

AGENCY: University of Mississippi Faculty Enhancement Award

DURATION: January 1, 1996-December 31, 1996

AMOUNT: \$5,000

TITLE: "Ultraviolet-Visible Diode Array Spectrophotometric System for Interdepartmental Scholastic Activities in the School of Pharmacy"

PRINCIPAL INVESTIGATOR: John M. Rimoldi

AGENCY: University of Mississippi, Associates Grant

DATE: January 1996

AMOUNT: \$16,506

TITLE: Design, Synthesis, and Biological Evaluation of Novel Nitric Oxide Synthase Inhibitors for Cardiovascular Regulation

PRINCIPAL INVESTIGATOR: John M. Rimoldi

CO-INVESTIGATOR: Dr. Larry Walker, University of Mississippi

GRANTING AGENCY: American Heart Association, Mississippi Affiliate

DURATION, DATES: 2 years, 07/01/96-06/30/98

AMOUNT: \$44,437

TITLE: Variable-Temperature Circulating Water Bath-Auxillary Temperature Monitoring for UV-VIS Diode Array Spectrophotometer

GRANTING AGENCY: Partners Grant, University of Mississippi

DATES: 1996

AMOUNT: \$1,000

TITLE: The Development of Diaziridines as Mechanism-Based Irreversible Inhibitors of Nitric Oxide Synthase

PRINCIPAL INVESTIGATOR: John M. Rimoldi

GRANTING AGENCY: AACP New Investigator Grant

DURATION: 12/1/97-11/30/99

AMOUNT: \$12,500

TITLE: Biological Oxygen Monitor for Enzymatic Reactions
GRANTING AGENCY: Partners Grant, University of Mississippi
DATES: 1997
AMOUNTS: \$1,000.

TITLE: Combinatorial Organic Synthesis Instrumentation System for Teaching and Research Activities in Medicinal Chemistry
PRINCIPAL INVESTIGATOR: John M. Rimoldi
GRANTING AGENCY: Associates Grant, University of Mississippi,
DATES: 1999
AMOUNTS: \$20,000

TITLE: "Ole Miss Section Member Spotlight and Adopt a School Program"
AGENCY: American Chemical Society Minigrant for Creative Membership-Retention
DURATION: 1/98 to 6/99
AMOUNTS: \$1,200

TITLE: Synthesis and In-Vitro Evaluation of 3,3-Difluoro-MPTP: A Site-Specific Metabolic Blocker of Neurotoxicity
PRINCIPAL INVESTIGATOR: John M. Rimoldi
GRANTING AGENCY: University of Mississippi Seed Grant
DATES: January 1999-December 1999
AMOUNT: \$2,300

TITLE: Design and Synthesis of 3,3-Difluoro-MPTP
PRINCIPAL INVESTIGATOR: John M. Rimoldi
GRANTING AGENCY: Sigma Xi grant for Chris Ross, High School Student, Jackson Academy, MS
DURATION: JUNE-AUGUST 1999
AMOUNT: \$150

TITLE: Single Syringe Infusion Pump
GRANTING AGENCY: University of Mississippi Partners Grant
DATES: December 1999
AMOUNT: \$1,000

TITLE: Short-Term Training for Minority Students", NHLBI Short Term Training Grant Program
PRINCIPAL INVESTIGATOR: John K. Buolomwini
CO-PRINCIPAL INVESTIGATORS: John M. Rimoldi, Dennis Feller, Robert Sindelar
DURATION: 05-99 TO 05-04
AMOUNT: \$174,480

TITLE: Fipronil Metabolite Synthesis
SUBCONTRACT: Lundy and Davis LLP
PRINCIPAL INVESTIGATOR: John M. Rimoldi
DURATION: MARCH-SEPTEMBER 2000
AMOUNT: \$4,000

TITLE: Parallel synthesis and biological evaluation of azetidines as protein kinase C inhibitors
PRINCIPAL INVESTIGATOR: John M. Rimoldi
GRANTING AGENCY: University of Mississippi Faculty Small Grant
DURATION: 6-00 TO 6-01
AMOUNT: \$3,500

TITLE: Identification of neurotoxins from *Centaurea*: A systematic approach
PRINCIPAL INVESTIGATOR: John M. Rimoldi
GRANTING AGENCY: USDA
DURATION: 10-01-00 to 09-31-02
COLLABORATORS: Mark Slattery (Pharmacognosy) and John Matthews (Pharmacology)
AMOUNT: \$75,000

TITLE: Rational Design and Synthesis of Novel Drugs for the Treatment of Emerging Infectious Diseases.
PRINCIPAL INVESTIGATOR: Dr. Mitchell Avery, Medicinal Chemistry
GRANTING AGENCY: Centers for Disease Control and Prevention
DURATION: 10-01-01 to 09-30-07
CO-INVESTIGATORS: John Rimoldi (10%)
AMOUNT: ~\$1,500,000/year

TITLE: Development and Testing of New Antimalarial Drugs
PRINCIPAL INVESTIGATOR: Dr. Mitchell Avery, Medicinal Chemistry,
GRANTING AGENCY: Centers for Disease Control and Prevention
DURATION: 10-01-02 to 09-30-09
CO-INVESTIGATORS: UM: John Rimoldi (10%)
AMOUNT: ~\$3,000,000/y

TITLE: Mississippi Junior Science and Humanities Symposium
Principal Investigator: John M. Rimoldi
Granting Agency: Academy of Applied Science
Duration: 09/04 to 10/09
AMOUNT: \$60,500

TITLE: Integrative Graduate Experience in Research and Training (IGERT) Entrepreneurship at the Interface of Polymer Science and Medicinal Chemistry. PRINCIPAL INVESTIGATORS: Lon Matthias (USM), John Williamson (UM)
CO-INVESTIGATORS: John Rimoldi
GRANTING AGENCY: *National Science Foundation*
DURATION: 11-03 to 10- 08.
AMOUNT: \$3,700,000

TITLE: OBCR Prodrug Development
Principal Investigator: John M. Rimoldi
Granting Agency: NOAA/NIUST
Duration: 10-07 to 10-09
Amount: \$56,000

TITLE: Synthesis of AD445-HCl
Principal Investigator: John M. Rimoldi
Granting Agency: Cumberland Emerging Technologies, Inc.
Duration: 07-09 to 08-09
Amount: \$8,426

Active

TITLE: Synthesis of CO donors and heme oxygenase inhibitors
Principal Investigator: David Stec, UM Medical Center
Subcontract: John Rimoldi (\$82,670)
Granting Agency: NIH
DURATION: 12-08 to 07-13
Total Award Amount: \$1,850,000.

Title: Oxalamate Derivatives as HIV-1 Integrase Inhibitors
Principal Investigator: Babu, John (Panvirex)
Subcontract: John Rimoldi (\$34,000)
Granting Agency: NIH/NIAID
Duration: 08-08 to 12-10
Total Award Amount: \$243,000

Title: Using Proteomics to Understand Coral and Sponge Immunity to Stress
Principal Investigator: JM Rimoldi
Granting Agency: NOAA NIUST (Prime Grant: NA07OAR4300494)
Duration: 10/1/09-9/30/10
Amount: \$100,944

VIII. PROFESSIONAL DEVELOPMENT

- *AACP "1996 Industry Visitation Program for Pharmacy Faculty".* Solvay Pharmaceuticals, Marietta, Georgia, host company. I
- *Protégé, Section of Teachers of Chemistry, American Association of Colleges of Pharmacy.* Internal mentor: Dr. Ronald F. Borne (Department of Medicinal Chemistry, School of Pharmacy) External mentor (Dr. Thomas L. Lemke, Associate Dean of Academic Affairs, University of Houston, School of Pharmacy)
- *Task Force, American Association of Colleges of Pharmacy Institute on Curricular and Pedagogical Change, Leesburg, VA, May 29-June 4, 1997.*
- *National Association of Boards of Pharmacy FPGEE item writing panelist, 2005*

IX. PERSONNEL (GRAD STUDENTS & POST-DOCTORAL ASSOCIATES)

Dissertations and Thesis Committee member of

1. Chad Haraldson, M.S. (Medicinal Chemistry, Mitchell Avery) May 1997.
2. Jeff Vroman, Ph.D. (Medicinal Chemistry, Mitchell Avery) October 1997.
3. Jason Bonk, Ph.D. (Medicinal Chemistry, Mitchell Avery) December 1997.
4. Zheng-Ming Guo, Ph.D. (Medicinal Chemistry, Robert Sindelar) May 1998.
5. Shukrit Chimote, M.S. (Pharmacology, Daniel Schlenk) December 1998.
6. Hareguin Aseffa, Ph.D. (Medicinal Chemistry, Robert Sindelar) May 1999.
7. Rhett Perkins, Ph.D. (Pharmacology, Daniel Schlenk) May 1999.
8. Maria Gaston, Ph.D. (Medicinal Chemistry, Mitchell Avery) May 2000.
9. Melanie Puglisi, Ph.D. (Pharmacognosy, Mark Slattery) May 2001.
10. Hetal Mitra, M.S. (Medicinal Chemistry, Dr. John Williamson) December 2001.
11. Theresa Johnson, Ph.D. (Medicinal Chemistry, Mitchell Avery) May 2001.
12. Tomiko Mineno, Ph.D. (Medicinal Chemistry, Mitchell Avery) May 2002.
13. **Aaron Beeler , Ph.D. (Medicinal Chemistry, John Rimoldi) May 2002.**

14. Mingwei Chen, M.S. (Medicinal Chemistry, John Williamson) May 2002.
15. John Furr, Ph.D. (Medicinal Chemistry, Mitchell Avery) May 2002.
16. Mark Levi, Ph.D. (Medicinal Chemistry, Ron Borne) October 2002.
17. Numukunda Darboe, Ph.D. (Chemistry, Maurice Eftink) December 2002.
18. John Satumba, Ph.D. (Chemistry, Mike Mossing) December 2002.
19. Ginger Powe, Ph.D. (Medicinal Chemistry, John Williamson) December 2003.
20. Francis Tukov, Ph.D. (Pharmacology, John Matthews) December 2003.
21. Ze Li, Ph.D. (Medicinal Chemistry, Mitchell Avery) April 2006.
22. **Lindsay D. Odom, Ph.D. (Medicinal Chemistry, John M. Rimoldi) July 2006**
23. **Anand Sridhar, Ph.D. (Medicinal Chemistry, John M. Rimoldi) April 2008**
24. **Young B. Kim, Ph.D. (Medicinal Chemistry, John M. Rimoldi) November 2008**
25. Jessica Adkins, Ph.D. (Medicinal Chemistry, Chris McCurdy) November 2008.
26. Monica Love, Ph.D. (Medicinal Chemistry, John Williamson) October 2009.
27. **Stephen Slauson, Ph.D. (Medicinal Chemistry, John M. Rimoldi) October 2009.**
28. Velvet Journigan, Ph.D. (Medicinal Chemistry, Chris McCurdy) April 2010.
29. **Vanildo Braga (Medicinal Chemistry, John Rimoldi) dissertation in progress.**
30. James Weston (Biology, Steve Threlkeld) dissertation in progress.
31. **Rob Smith (Medicinal Chemistry, John Rimoldi) dissertation in progress.**
32. **Sarah Chajkowski (Medicinal Chemistry, John Rimoldi) dissertation in progress.**
33. Christina Coleman (Pharmacognosy, Daneel Fereria) dissertation in progress.
34. Ziaofei Zhang (Chemistry, T. Keith Hollis) dissertation in progress.
35. Zhengming Gao, (Medicinal Chemistry, Steven Cutler) dissertation in progress.

36. J. Brian Morgan (Medicinal Chemistry, John Rimoldi) dissertation in progress.

Research Associates

1. Dr. Rama Sarma VS Gadepalli, 2001-present
2. Dr. Sreerama Murthy, 2003-2004
3. Dr. Sambasiva Poreddy, 2002-2005
4. Dr. Satish Pupalli, 2004-2006

X. COURSES TAUGHT

Undergraduate

Principles of Medicinal Chemistry (MEDC314) 1996-2002
Laboratory Principles of Medicinal Chemistry (MEDC 315)- 1996-2002 Coordinator
Pharmacogenetics and Pharmacoinmunology (MEDC317) 2004-present

Graduate

Seminars In Medicinal Chemistry (MEDC 643, 644)
Bioorganic Chemistry (MEDC610)
1D and 2D NMR Analysis: Spectral Interpretation (MEDC503)
Combinatorial Chemistry and Parallel Synthesis (MEDC620)
LC-MS: Theory and Application (MEDC610)
Introduction to Environmental Toxicology (PHCL343/543): 4 hour lectures