

CURRICULUM VITAE

JEANETTE C. ROBERTS

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EDUCATION

2002	Certificate	University of Utah	Higher Education Leadership
2001	M.P.H.	University of Utah	Public Health
1986	Ph.D.	University of Minnesota	Medicinal Chemistry
1979	B.S.	Albright College, Reading, PA	Biochemistry

CURRENT POSITIONS

2001-Present	Adjunct Professor of Pharmacology and Toxicology, College of Pharmacy, University of Utah
2003-Present	Dean, School of Pharmacy, University of Wisconsin, Madison, WI
2003-Present	Professor, Pharmaceutical Sciences Division, School of Pharmacy, University of Wisconsin
2003-Present	Adjunct Professor of Medicinal Chemistry, College of Pharmacy, University of Utah, Salt Lake City, UT

PROFESSIONAL EXPERIENCE

2001-2003	Professor of Medicinal Chemistry, College of Pharmacy, University of Utah
2001-2003	Adjunct Professor of Foods and Nutrition, College of Health, University of Utah
2000-2003	Associate Dean for Academic Affairs, College of Pharmacy, University of Utah
2000-2001	Adjunct Associate Professor of Foods and Nutrition, University of Utah
1999-2000	Consultant, Protein Solutions, Inc., Salt Lake City, UT
1999-2000	Consultant, Utah Health Informatics, Salt Lake City, UT
1999	Consultant, Jean Brown Associates, Salt Lake City, UT
1998	Visiting Professor, Department of Pediatrics, University of Vienna
1995-1996	Interim Chair, Department of Medicinal Chemistry, University of Utah
1994-2001	Associate Professor of Medicinal Chemistry, University of Utah
1994-2001	Adjunct Associate Professor of Pharmacology and Toxicology, University of Utah
1992-1994	Adjunct Assistant Professor of Pharmacology and Toxicology, University of Utah
1988-1994	Assistant Professor of Medicinal Chemistry, University of Utah
1988-1993	Consultant, Medical Radioisotopes Research Program, Isotope and Nuclear Chemistry Division, Los Alamos National Laboratory, Los Alamos, NM
1986-1988	J. Robert Oppenheimer Fellow, Medical Radioisotopes Research Program, Isotope and Nuclear Chemistry Division, Los Alamos National Laboratory
1980-1981	Chemist, Minerals Division, Department of Natural Resources, St. Paul, MN
1979	Quality Control Chemist, Warner-Lambert Company, Rockford, IL
1979	Undergraduate Research Participant, Chemistry Division, Argonne National Laboratory, Argonne, IL
1978	Undergraduate Research Participant, Department of Chemistry, University of Delaware, Newark, DE

RESEARCH AND SCHOLARLY INTERESTS

Herbal medicines and other dietary supplements. Antioxidants in cancer chemoprevention.
Chemoprotection and chemoprevention by manipulating cellular sulfur and selenium levels.

STUDENTS SUPERVISED (Short rotations not included) – University of Utah

High School

1994 Marcia Stone

Undergraduate

1999-2002	Jared Manning	1994	Manomi Tennakoon
1998-2000	Wendy Williams	1994-1996	Ena Ladi
1998	LoraLee Wirth	1994	Robert Brinkerhoff
1998	Thy Pham	1994	David Jensen
1997-1998	Tova Wolking	1993-1994	Jeannie Rollo
1997	Gerardo Lopez	1990	Phong Vu
1995-1996	Jesse Anderegg	1990-1994	David DeHerrera
1995	Rochelle Bartlet	1989-1990	Yvonne Adams
1994-1995	Shauna Detrick		

Graduate

2001-2003	Wael Mohamed El-Sayed (PhD)		
	Thesis title:	<i>Mechanisms of Hepatoprotection by the Seeds of Nigella sativa</i>	
	Current position:	Faculty of Zoology, Ain Shams University, Cairo, Egypt	
	Former position:	Postdoctoral Fellow, Department of Pharmacology and Toxicology, University of Utah	
1997-2000	Megan Short (MS)		
	Thesis title:	<i>The Synthesis and Study of Novel Selenazolidines: Potential Cancer Chemopreventive Agents</i>	
	Current position:	Pharm.D. student, University of Colorado Health Sciences Center, Denver, CO	
	Former positions:	Laboratory Assistant, Department of Pediatrics Critical Care Research Laboratory, University of Colorado Health Sciences Center, Denver, CO Research Associate, Department of Biochemistry, University of Arizona, Tucson, AZ	
1994-1999	Britta Wilmore (PhD)		
	Thesis title:	<i>Design and Study of Novel Thiazolidine Radioprotective Agents</i>	
	Current position:	Research Scientist, Lovelace Respiratory Research Institute, Albuquerque, NM	
	Former position:	Postdoctoral Fellow, Department of Pharmaceutical Sciences, University of Colorado, Denver, CO	
1993-2001	Pamela Dominick (PhD)		
	Recipient of:	Inaugural Wolf Prize in Teaching 2001	
	Thesis title:	<i>Chemical and Biochemical Analysis of Novel Prodrugs of L-Cysteine</i>	
	Current position:	Research Associate, Department of Medicinal Chemistry, University of North Carolina, Chapel Hill, NC	
1992-1997	Holly Phaneuf (PhD)		
	Thesis title:	<i>Synthesis and Evaluation of Novel Hepatoprotective L-Cysteine Prodrugs</i>	
	Current position:	Assistant Professor, Department of Chemistry, Salt Lake Community College, Salt Lake City, UT	
	Former positions:	Adjunct Instructor, Departments of Biology and Chemistry, Westminster College, Salt Lake City, UT Instructor, Department of Chemistry, Salt Lake Community College, Salt Lake City, UT	

- 1992-1994 Kim Koch (MS)
Thesis title: *Thiazolidine Prodrugs of L-Cysteine and Cysteamine as Radioprotective Agents*
Current position: Clinical Research Administrator, Eli Lilly, Indianapolis, IN
Former positions: Clinical Research Specialist, Walther Cancer Institute, Indianapolis, IN; Senior Laboratory Assistant, IUPUI, Indianapolis, IN
- 1991-1995 Mahesh Bhalgat (PhD)
Thesis title: *Preparation and Evaluation of Radiolabeled Porphyrin-Antibody Conjugates*
Current position: Immunochemistry Team Leader, Amgen, Thousand Oaks, CA
Former positions: Proteomics Team Leader, Celera Genetics, Baltimore, MD; Immunoassay Analyst, Monsanto Corp., St. Louis, MO; Senior Scientist, Molecular Probes, Inc., Eugene, OR; Postdoctoral Fellow, Molecular Probes, Inc., Eugene, OR

Postdoctoral Fellows and Research Associates

- 2003-2005 Dr. Tarek Aboul-Fadl
Current position: Faculty of Pharmacy, Assiut University, Assiut, Egypt
- 2001-2003 Dr. Liang Li
Current position: Senior Biostatistician, Biogen Idec, Cambridge, MA
- 2000-2003 Dr. Xie Yang
Current position: Research Associate, Archemix Corp, Cambridge, MA
Former position: Research Associate, Northwestern Healthcare Research Institute Center for MR Research, Evanston, IL
- 1995-1998 Dr. Pamela Cassidy
Current position: Research Assistant Professor, Department of Medicinal Chemistry (Huntsman Cancer Institute), University of Utah

GRANT SUPPORT (>\$30,000)

“Advances in Selenium Supplementation” (J.C. Roberts, original P.I.; transferred to M.R. Franklin); PHS, 1 R01 GM58913; May 1, 2000 - November 30, 2005; \$250,000 per year (direct).

“Targeted Delivery of Glutathione Precursors to the Liver” (J.C. Roberts, P.I.); PHS, 5 R29 GM44785; February 1, 1992 - January 31, 1998; \$349,185 (direct).

“Antibody Modification for Targeted Drug Delivery” (J.C. Roberts, P.I.); Elsa U. Pardee Foundation; July 1, 1993 - June 30, 1994; \$73,792 (direct).

“Radiation Anticarcinogenesis by Thiazolidine Prodrugs (R.L. Warters, P.I.); National Aeronautics and Space Administration; October 1, 1995 - December 31, 1998; \$407,920 (direct).

“Achieving Radioprotection by Modulating Cellular Thiol Levels” (J.C. Roberts, P.I.); Armed Forces Radiobiology Research Institute; May 1, 1997 - December 31, 1999; \$80,757 (direct).

“Novel Selenium Supplements for Cancer Chemoprevention” (J.C. Roberts, P.I.); Cancer Research Foundation of America; January 15, 1999 - January 14, 2001; \$69,000 (direct).

“Maximizing Antibiotic Therapy by Minimizing the Development of Resistance” (J.C. Roberts, P.I.); University of Utah Technology Innovation Grant; July 1, 1999 - June 30, 2001; \$34,338 (direct).

PUBLICATIONS

1. Nagasawa, H.T., Elberling, J.A. and Roberts, J.C. (1987) β -Substituted Cysteines as Sequestering Agents for Ethanol-Derived Acetaldehyde in vivo. *J. Med. Chem.* **30**:1373-1378.
2. Roberts, J.C., Nagasawa, H.T., Zera, R.T., Fricke, R.F. and Goon, D.J.W. (1987) Prodrugs of L-Cysteine as Protective Agents against Acetaminophen-Induced Hepatotoxicity. 2-Polyhydroxyalkyl- and 2-Polyacetoxyalkylthiazolidine-(4R)-carboxylic Acids. *J. Med. Chem.* **30**:1891-1896.
3. Roberts, J.C., Figard, S., Mercer-Smith, J.A., Anderson, W. and Lavalley, D.K. (1987) Preparation and Characterization of Copper-67 Porphyrin-Antibody Conjugates. *J. Immunol. Meth.* **105**:153-164.
4. Roberts, J.C., Newmyer, S.L., Mercer-Smith, J.A., Schreyer, S.A. and Lavalley, D.K. (1989) Labeling Antibodies with Copper Radioisotopes using N-4-Nitrobenzyl-5-(4-carboxyphenyl)- 10,15,20-tris (4-sulfophenyl) Porphine. *Appl. Radiat. Isot.* **40**:775-781.
5. Roberts, J.C., Adams, Y.E., Tomalia, D., Mercer-Smith, J.A. and Lavalley, D.K. (1990) Using Starburst Dendrimers as Linker Molecules to Radiolabel Antibodies. *Bioconjugate Chem.* **1**:305-308.
6. Roberts, J.C., Francetic, D.J. and Zera, R.T. (1991) L-Cysteine Prodrug Protects against Cyclophosphamide Toxicity without Compromising Therapeutic Activity. *Cancer Chemother. Pharmacol.* **28**:166-170.
7. Roberts, J.C. and Francetic, D.J. (1991) Time Course for the Elevation of Glutathione in Numerous Organs of L1210-Bearing CDF1 Mice by the L-Cysteine Prodrug, RibCys. *Toxicol. Letts.* **59**:245-251.
8. Roberts, J.C. and Francetic, D.J. (1991) Mechanisms of Chemoprotection by RibCys, a Thiazolidine Prodrug of L-Cysteine. *Med. Chem. Res.* **1**:213-219.
9. Roberts, J.C., Charyulu, R.L., Zera, R.T. and Nagasawa, H.T. (1992) Protection against Acetaminophen Hepatotoxicity by Ribose-Cysteine (RibCys). *Pharmacol. Toxicol.* **70**:281-285.
10. Roberts, J.C. (1992) Amino Acids and Derivatives as Radioprotective Agents. *Amino Acids* **3**:25-52.
11. Rowe, J.K., Zera, R.T., Madoff, R.D., Fink, A.S., Roberts, J.C., Johnston, G.R., Feeney, D.A., Young, H.L. and Bubrick, M.P. (1993) Protective Effect of RibCys Following High Dose Irradiation of the Rectosigmoid. *Dis. Colon Rectum* **36**:681-688.
12. Roberts, J.C. and Francetic, D.J. (1993) The Importance of Sample Preparation and Storage in Glutathione Analysis. *Anal. Biochem.* **211**:183-187.
13. Roberts, J.C. and Francetic, D.J. (1994) Chemoprotection against Cyclophosphamide-Induced Urotoxicity: Ribose-Cysteine. *Anticancer Res.* **14**:383-387.
14. Roberts, J.C., Francetic, D.J. and Zera, R.T. (1994) Chemoprotection against Cyclophosphamide-Induced Urotoxicity: Comparison of Nine Thiol Protective Agents. *Anticancer Res.* **14**:389-395.
15. Franklin, M.R. and Roberts, J.C. (1994) The Relative Ability of BSO and Other γ -Glutamylcysteine Synthetase Inhibitors to Both Deplete Glutathione and Alter Drug Metabolizing Enzyme Activities. *Bioorg. Med. Chem. Letts.* **4**:935-940.
16. Roberts, J.C., Koch, K.E., Detrick, S.R., Wartens, R.L. and Lubec, G. (1995) Prodrugs of Cysteamine and Cysteine as Radioprotective Agents. *Radiat. Res.* **143**:203-213.
17. Carroll, M.P., Zera, R.T., Roberts, J.C., Schlafmann, S.E., Feeney, D.A., Johnston, G.R., West, M.A. and Bubrick, M.P. (1995) Efficacy of Radioprotective Agents in Preventing Small and Large Bowel Radiation Injury. *Dis. Colon Rectum* **38**:716-722.
18. Roberts, J.C. (1995) Stereoisomers of Cysteine and its Analogs. Potential Effects on Chemo- and Radioprotection Strategies. *Amino Acids* **8**:113-124.
19. Roberts, J.C., Bhalgat, M.K. and Zera, R.T. (1996) Preliminary Biological Evaluation of Starburst Dendrimers. *J. Biomed. Mat. Res.* **30**:53-65.
20. Koch, K.E., Roberts, J.C., Solar, S. and Lubec, G. (1997) Radiation Protection by α -Methyl-homocysteine Thiolactone. *Life Sciences* **60**:341-350.
21. Bhalgat, M.K., Roberts, J.C., Mercer-Smith, J.A., Knotts, B.A., Vessella, R.L. and Lavalley, D.K. (1997) Preparation and Biodistribution of Copper-67 Labeled Porphyrins and Porphyrin-A6H Immunoconjugates. *Nucl. Med. Biol.* **24**:179-185.
22. Bhalgat, M.K., Roberts, J.C., Mercer-Smith, J.A., Vessella, R.L. and Lavalley, D.K. (1997) Effect of Chemical Modification Strategy on the Characteristics of Copper-67 Labeled Immunoconjugates. I.

- Immunoreactivity. *Drug Delivery* **4**:1-12.
23. Bhalgat, M.K., Roberts, J.C., Mercer-Smith, J.A., Vessella, R.L. and Lavalley, D.K. (1997) Effect of Chemical Modification Strategy on the Characteristics of Copper-67 Labeled Immunoconjugates. II. Aggregation. *Drug Delivery* **4**:13-17.
 24. Warters, R.L., Roberts, J.C., Wilmore, B.H. and Kelley, L.L. (1997) Modulation of Radiation-Induced Apoptosis by Thiolamines. *Int. J. Radiat. Biol.* **72**:439-448.
 25. Kim, H., Richardson, C., Roberts, J., Gren, L. and Lyon, J.L. (1998) Cold Hands, Warm Heart. *Lancet* **351**:1492.
 26. Roberts, J.C., Phaneuf, H.M., Szakacs, J.G., Zera, R.T., Lamb, J.G. and Franklin, M.F. (1998) Differential Chemoprotection against Acetaminophen-Induced Hepatotoxicity by Latentiated L-Cysteines. *Chem. Res. Toxicol.* **11**:1274-1282.
 27. Grdina, D.J., Murley, J.S. and Roberts, J.C. (1998) Effects of Thiols on Topoisomerase-II α Activity and Cell Cycle Progression. *Cell Proliferation* **31**:217-229.
 28. Roberts, J.C., Phaneuf, H.M., Dominick, P.D., Wilmore, B.H. and Cassidy, P.B. (1999) Biodistribution of [³⁵S]-Cysteine and Cysteine Prodrugs: Impact on Chemoprotection Strategies. *J. Labelled Comp. Radiopharm.* **42**:485-495.
 29. Bhalgat, M.K. and Roberts, J.C. (2000) Molecular Modeling of Polyamidoamine (PAMAM) Starburst™ Dendrimers. *Eur. Polymer J.* **36**:647-651.
 30. Booth, V.K., Roberts, J.C., Wilmore, B.H., Warters, R.L. and Lepock, J.R. (2000) Radioprotective Thiolamines WR-1065 and WR-33278 Selectively Denature Non-Histone Nuclear Proteins. *Radiat. Res.* **153**:813-822.
 31. Lucas, A.M., Hennig, G., Dominick, P.K., Whiteley, H.E., Roberts, J.C. and Cohen, S.D. (2000) Ribose-Cysteine Protects against Acetaminophen-Induced Hepatic and Renal Toxicity. *Toxicol. Pathol.* **28**:697-704.
 32. Borges, C.R., Roberts, J.C., Wilkins, D.G. and Rollins, D.E. (2001) Relationship of Melanin Degradation Products to Actual Melanin Content: Application to Human Hair. *Anal. Biochem.* **290**:116-125.
 33. Murley, J.S., Kataoka, Y., Hallahan, D.E., Roberts, J.C. and Grdina, D.J. (2001) Activation of NF-kB and MnSOD Gene Expression by Free Radical Scavengers in Human Microvascular Endothelial Cells. *Free Rad. Biol. Med.* **30**:1426-1439.
 34. Roberts, J.C. and Jacobs, R. (2001) Childhood Immunizations: Applying Small Area Assessment to Salt Lake County. *Utah's Health: An Annual Review* **VII**:24-32.
 35. Wilmore, B.H., Cassidy, P.B., Warters, R.L. and Roberts, J.C. (2001) Thiazolidine Prodrugs as Protective Agents against Gamma Radiation-Induced Toxicity and Mutagenesis in V79 Cells. *J. Med. Chem.* **44**:2661-2666.
 36. Dominick, P.K., Cassidy, P.B. and Roberts, J.C. (2001) A New and Versatile Method for Determination of Thiolamines of Biological Importance. *J. Chromatography B* **761**:1-12.
 37. Xie, Y., Short, M.D., Cassidy, P.B. and Roberts, J.C. (2001) Selenazolidines as Novel Organoselenium Delivery Agents. *Bioorgan. Med. Chem. Lett.* **11**:2911-2915.
 38. Engidawork, E., Roberts, J.C., Hardmeier, R., Scheper, R.J. and Lubec, G. (2001) Expression of the Multidrug Resistance P Glycoprotein (Pgp) and Multidrug Resistance Associated Protein (MRP1) in Down Syndrome Brains. *J. Neural Transm. Suppl.* **(61)**:35-45.
 39. Borges, C., Roberts, J., Wilkins, D. and Rollins, D. (2003) Cocaine, Benzoylcegonine, Amphetamine, and N-Acetylamphetamine Binding to Melanin Subtypes. *J. Anal. Toxicol.* **27**:125-134.
 40. Manning, J. and Roberts, J.C. (2003) Analysis of Catechin Content of Commercially-Available Green Tea Products. *J. Herbal Pharmacother.* **3**:19-32.
 41. Short, M.D., Xie, Y., Li, L., Cassidy, P.B. and Roberts, J.C. (2003) Characteristics of Selenazolidine Prodrugs of Selenocysteine: Toxicity and Glutathione Peroxidase Induction in V79 Cells. *J. Med. Chem.* **46**:3308-3313.
 42. Lenarczyk, M., Ueno, A., Vannais, D.B., Kraemer, S., Kronenberg, A., Roberts, J.C., Tatsumi, K., Hei, T.K. and Waldren, C.A. (2003) The "Prodrug" RibCys Decreases the Mutagenicity of High LET Radiation in Cultured Mammalian Cells. *Radiat. Res.* **160**:579-583.
 43. Li, L., Xie, Y., El-Sayed, W.J., Szakacs, J.G. and Roberts, J.C. (2004) Characteristics of Selenazolidine Prodrugs of Selenocystine: Toxicity, Selenium Levels, and Glutathione Peroxidase

- Induction in A/J Mice. *Life Sci.* **75**:447-459.
44. Lucas Slitt, A., Dominick, P.K., Roberts, J.C. and Cohen, S.D. (2004) Standard of Care May Not Protect against Acetaminophen-Induced Nephrotoxicity. *Basic Clin. Pharmacol. Toxicol.* **95**:247-248.
 45. Stern, S.T., Bruno, M.K., Hennig, G.E., Horton, R.A., Roberts, J.C. and Cohen, S.D. (2005) Contribution of Acetaminophen-Cysteine to Acetaminophen Nephrotoxicity in CD-1 Mice. I. Enhancement of Acetaminophen Nephrotoxicity by Acetaminophen-Cysteine. *Toxicol. Appl. Pharmacol.* **202**:151-159.
 46. Stern, S.T., Bruno, M.K., Horton, R.A., Hill, D.W., Roberts, J.C. and Cohen, S.D. (2005) Contribution of Acetaminophen-Cysteine to Acetaminophen Nephrotoxicity. II. Possible Involvement of the γ -Glutamyl Cycle. *Toxicol. Appl. Pharmacol.* **202**:160-171.
 47. Lucas Slitt, A., Dominick, P.K., Roberts, J.C. and Cohen, S.D. (2005) Effect of Ribose Cysteine Pretreatment on Hepatic and Renal Acetaminophen Metabolite Formation and Glutathione Depletion. *Basic Clin. Pharmacol. Toxicol.* **96**:487-494.
 48. Li, L., Xie, Y., El-Sayed, W.M., Szakacs, J.G., Franklin, M.R. and Roberts, J.C. (2005) Chemopreventive Activity of Selenocysteine Prodrugs against Tobacco-Derived Nitrosamine (NNK) Induced Lung Tumors in the A/J Mouse. *J. Biochem. Molec. Toxicol.* **19**:396-405.
 49. El-Sayed, W.M., Aboul-Fadl, T., Lamb, J.G., Roberts, J.C. and Franklin, M.R. (2006) Effect of Selenium-Containing Compounds on Hepatic Chemoprotective Enzymes in Mice. *Toxicology* **220**:179-188.
 50. Deutch, C.E., Arballo, M.E., Cooks, L.N., Gomes, J.M., Williams, T.M., Aboul-Fadl, T. and Roberts, J.C. (2006) Susceptibility of *Escherichia coli* to L-Selenaproline and Other L-Proline Analogues in Laboratory Culture Media and Normal Human Urine. *Letts. Appl. Microbiol.* **43**:392-398.
 51. El-Sayed, W.M., Aboul-Fadl, T., Lamb, J.G., Roberts, J.C. and Franklin, M.R. (2006) Acute Effects of Novel Selenazolidines on Murine Chemoprotective Enzymes. *Chem.-Biol. Interact.* **162**:31-42.
 52. El-Sayed, W.M., Aboul-Fadl, T., Roberts, J.C., Lamb, J.G. and Franklin, M.F. (2007) Murine Hepatoma (Hepa1c1c7) Cells: A Responsive *in vitro* System for Chemoprotective Enzyme Induction by Organoselenium Compounds. *Toxicol. in Vitro* **21**:157-164.
 53. Franklin, M.R., Moos, P.J., El-Sayed, W.M., Aboul-Fadl, T., Lamb, J.G. and Roberts, J.C. (2007) Pre- and Post-Initiation Chemoprevention Activity of 2-Alkyl/Aryl Selenazolidine-4(R)-carboxylic Acids against Tobacco-Derived Nitrosamine (NNK)-Induced Lung Tumors in the A/J Mouse. *Chem.-Biol. Interact.* **168**:211-220.
 54. Blouin, R.A., Bergstrom, R.F., Ellingrod, V.L., Fletcher, C.V., Leff, R.D., Morris, A., Okita, R.T., Roberts, J.C., Tracy, T.S., Sagraves, R. and Miller, K.W. (2007) Report of the AACP Educating Clinical Scientists Task Force. *Amer. J. Pharm. Ed.* **71**:1-11.
 55. Wróbel, M.B. and Roberts, J.C. (2010) Potential Therapeutic Advantage of Ribose-Cysteine in the Inhibition of Astrocytoma Cell Proliferation. *Amino Acids*, in press.

BOOK CHAPTERS

1. Mercer-Smith, J.A., Roberts, J.C., Figard, S.D. and Lavalley, D.K. (1988) The Development of Copper-67-Labeled Porphyrin-Antibody Conjugates. In *Targeted Diagnosis and Therapy. Vol. 1. Antibody-Mediated Drug Delivery Systems*; Rodwell, J.R., Ed.; Marcel Dekker: New York; pp 317-352.
2. Cole, D.A., Mercer-Smith, J.A., Norman, J.K., Bullington, K.P., Roberts, J.C. and Lavalley, D.K. (1990) Copper-67 Labeled Porphyrin Localization in Inflamed Tissues. In *Copper Bioavailability and Metabolism*; Kies, C., Ed.; Plenum Press: New York; pp 259-272.
3. Mercer-Smith, J.A., Cole, D.A., Roberts, J.C., Lewis, D.A., Behr, M.J. and Lavalley, D.K. (1990) The Biodistribution of Radiocopper-Labeled Compounds. In *Copper Bioavailability and Metabolism*; Kies, C., Ed.; Plenum Press: New York; pp 103-121.
4. Mercer-Smith, J.A., Roberts, J.C., Lewis, D., Cole, D.A., Newmyer, S.L., Schulte, L.D., Mixon, P.L., Schreyer, S.A., Figard, S.D., Burns, T.P., McCormick, D.J., Lennon, V.A., Hayashi, M. and Lavalley, D.K. (1991) Radiometallating Antibodies and Autoantigenic Peptides. In *New Trends in Radiopharmaceutical Synthesis, Quality Assurance and Regulatory Control*; Emran, A.M., Ed.; Plenum Press: New York; pp 152-161.
5. Shane-McWhorter, L. and Roberts, J.C. (2004) Complementary and Alternative Medicine in Pain Management. In *Pain Management for Primary Care Clinicians*; Lipman, A.G., Ed.; American Society

of Health-System Pharmacists: Bethesda, MD; pp 233-254.

6. Roberts, J.C. (2008) Achieving Balance in Your Life. In *The Dean's Compass: Practical Advice for Achieving Excellence*; Chase, P.A., Hayes, B.E. and Yanchick, V.A., Eds; American Association of Colleges of Pharmacy, Alexandria, VA; pp 285-290.

BOOKS

1. Battin, M., Booher, T., Fakata, K., Fuchs, D., Gallagher, P., Kumpfer, K., Lipman, A., Luna, E., Lundberg, K., Roberts, J., and Rollins, D. (2008) *Drugs and Justice: Seeking a Consistent, Coherent, Comprehensive View*; Oxford University Press, New York.

BOOK REVIEWS

1. Roberts, J.C. (2000) Review of Cupp, M.J., *Toxicology and Clinical Pharmacology of Herbal Products*. Humana Press: Totowa, NJ; 2000. *Clin. Chem.* **46**:1872.
2. Roberts, J.C. (2001) Review of Zhu, Y.P., *Chinese Materia Medica*. Harwood Academic Publishers: Amsterdam; 1998. *Am. J. Chinese Med.* **29**:185-186.
3. Roberts, J.C. (2002) Review of Patarca-Montero, R., *Phytotherapy of Chronic Fatigue Syndrome*. Haworth Medical Press: Binghamton, NY; 2001. *J. Pain Palliative Care Pharmacotherapy* **16**:122-123.

PATENTS

1. Roberts, J.C. and Nagasawa, H.T. Method for Elevating Cellular Glutathione Levels. U.S. Patent Number 4,868,114. September, 1989.
- 2a. Roberts, J.C., Wilmore, B.H., Cassidy, P.B., Dominick, P.K. and Short, M.D. Prodrugs and Conjugates of Thiol- and Selenol-Containing Compounds and Methods of Use Thereof. U.S. Patent Number 6,340,746 B1. January, 2002. U.S. Patent Number 6,841,536 B2. January, 2005.
- 2b. Roberts, J.C., Wilmore, B.H., Cassidy, P.B., Dominick, P.K. and Short, M.D. Prodrugs and Conjugates of Thiol- and Selenol-Containing Compounds and Methods of Use Thereof. Australian Patent Number 750916. August, 2002.
- 2c. Roberts, J.C., Wilmore, B.H., Cassidy, P.B., Dominick, P.K. and Short, M.D. Prodrugs and Conjugates of Thiol- and Selenol-Containing Compounds and Methods of Use Thereof. European Patent Number 1003760. July, 2006.
- 2d. Roberts, J.C., Wilmore, B.H., Cassidy, P.B., Dominick, P.K. and Short, M.D. Prodrugs and Conjugates of Thiol- and Selenol-Containing Compounds and Methods of Use Thereof. Canadian Patent Number 2,299,271. June, 2008.
3. Franklin, M.F., Roberts, J.C., and Abuol-Fadl, T. Prodrugs and Conjugates of Thiol- and Selenol-Containing Compounds and Methods of Use Thereof. U.S. Patent Number 7,425,635 B2 (continuation-in-part). September 16, 2008.

GRADUATE THESIS COMMITTEES—University of Utah

<i>Medicinal Chemistry</i>			
2001-2003	Tyler Rose (PhD)	1997-1999	Bharat Mehrotra (PhD)
1999-2002	James Mullally (PhD)	1996-2001	Robyn Hyde (PhD)
1999-2001	Robyn James (MS)	1995-2000	Seema Jonglekar (PhD)
1999-2003	Patricia Champine (MS)	1994-1998	Philippe Durant (PhD)
1999-2000	Malik Sundaram (PhD)	1991-1996	Paula Francom (PhD)
1998-2001	Josef Lazar (PhD)	1990-1991	Thomas Leonard (PhD)
1997-1999	Li Feng (PhD)		

	<i>Pharmacology</i>		<i>Bioengineering</i>
2003-2007	Stacy Smeal (PhD)	1998-2003	Yu-Cheng Song (PhD)
1999-2001	Chad Borges (PhD)		
1995-1997	Matthew Slawson (PhD)		
1990-1994	Michael Law (PhD)		
1988-1991	Werawan Ruangyuttikarn (PhD)		
1988-1990	Brad Manning (PhD)		
	<i>Chemistry</i>		
2002-2003	Jaime Mueller (PhD)	1992-1996	Jacqueline Kiplinger (PhD)
1999-2003	Stacey Dalton (PhD)	1992-1995	Detlef Klingberg (PhD)
1999-2003	Yury Kryshenko (PhD)	1991-1995	Kevin Dockery (PhD)
1998-2001	Rachel Jameton (PhD)	1991-1994	Anandan Palani (PhD)
1997	Cuong Lu (PhD)	1991-1993	Brian Buffin (PhD)
1995	Mark Greer (PhD)	1990-1993	Bodapati Naidu (PhD)
1995-1997	Ren-Hwa Yeh (PhD)	1990-1995	Clint Rossiter (PhD)
1993	Gregory Linquist (MS)	1989-1993	Charles Crittall (PhD)
1992-1996	Worawan Bhanthumnavin (PhD)	1989-1993	Robert Hinkle (PhD)
1992-1996	Stanton McCarty (PhD)		
	<i>Nursing</i>		<i>Foods and Nutrition</i>
2003	Adrienne Shaver (MS)	2003	Janea Rather (MS)
2001-2002	Lauri Whitaker (MS)		
2001-2003	Dana Shaw (MS)		
2000-2001	Helen Osborne (MS)		
1999-2001	Christine Bardsley (MS)		
1993-1994	Pat Pyle (MS)		

GRADUATE THESIS COMMITTEES—University of Wisconsin

	<i>Pharmaceutical Sciences</i>		<i>Population Health</i>
2003-2004	Jessica Williams (MS)	2003-2005	Nilay Shah (PhD)
	<i>Anthropology</i>		<i>Comparative Bioscience</i>
2006-Present	Evgenia Fotiou (PhD)	2009-2010	Jeremy Johnson (PhD)

TEACHING OPPORTUNITIES (details provided since F2002)—University of Utah

2009-Present	UGS 2008 Drug Theory, Policy, and Practice: An Interdisciplinary Analysis In S2009: Gave 1 lecture about complementary and alternative medicine (65 students) In S2010: Prepared 1 lecture about complementary and alternative medicine (82 students) (Family emergency did not allow me to teach in person.)
2002-2003	PHARM 5400 USIIS Outreach (2 credits) In S2003: Coordinated students with the Utah Department of Health to further develop a new computer-based tracking system for childhood immunization records (5 students) In F2002: Coordinated students with the Utah Department of Health to further develop a new computer-based tracking system for childhood immunization records (2 students)
2002	PHARM 5113 Introduction to Pharmaceutical Sciences (3 credits) In F2002: Course master for full semester (42 1-h class periods; 50 students)

2002-2003	UUHSC 2500 Health Professions Exploration (2 credits) In F2003: Coordinating Pharmacy participation in Health Sciences LEAP course; giving one lecture about Complementary Medicine and leading one reflection session (26 students) In F2002: Coordinated Pharmacy participation in Health Sciences LEAP course; gave one lecture about Complementary Medicine and led one reflection session (30 students)
2002	BLCHM 6100 Journal Club–Selenium Biochemistry (1 credit)
2001-2003	MDCH 5110 Physiological Chemistry I (4 credits) In F2003: Teaching first module (9 1-h class periods; 77 students) In F2002: Taught three-quarters of semester (50 1-h class periods; 64 students)
2001	NURS 5901 Reflections on Ethics (1 credit)
2001	UUHSC 1001 Health Professions Seminar (2 credits)
2001-2003	H EDU 2010 Introduction to Health Professions (3 credits) In S2003: Gave one lecture about College of Pharmacy admission policies, etc. (20 students) In F2002: Gave one lecture about College of Pharmacy admission policies, etc. (25 students)
2000	MDCH 5990-1 Special Topics: USIIS Immunization Tracking System (2 credits)
2000-2002	PHPRC 1010 Survey of Pharmacy, guest lecturer (1 credit) In F2002: Gave one lecture about College of Pharmacy admission policies, etc. (51 students)
1998-2000	PHTX 5634 Immunology, section leader (1 credit)
1997-1998	Advisor, Undergraduate Honors Project with Tova Wolking; <i>Health Care Practitioner Perception of Alternative Therapy Use</i>
1997-2003	MDCH 552 / 5612 / 7201 Herbal Medicines and Natural Product Drugs (2 credits) In S2003: Taught full semester (15 2-h class periods; 36 students)
1996-1997	Advisor, Undergraduate Honors Project with Ena Ladi; <i>A Comparative Study of the Dissociative Patterns of Cysteine Ethyl Ester Prodrugs</i>
1996-2001	MDCH 567 / 5210 / 5220 Organic Medicinal Chemistry (2 credits per semester)
1996-1999	PHTX 669 / 6690 Grant Writing, panel member
1995-1996	MDCH 601 Medicinal Chemistry Journal Club
1995	INTMD 757 Research Ethics, discussion moderator
1993-1996	CHEM 626 Bioorganic Chemistry, guest lecturer
1992-1996	MDCH 655 Site-Specific Drug Delivery
1988-1994	MDCH 561 Natural Products Chemistry

TEACHING OPPORTUNITIES—University of Wisconsin

2006-Present	DPH-4 Clerkship Seminar Series In Summer 2008: Gave 1 lecture on herbal medicines (132 students) In Summer 2007: Gave 2 lectures on herbal medicines (137 students) In Summer 2006: Gave 2 lectures on herbal medicines (130 students)
2004-Present	728-672 Herbals, Homeopathy, and Nutritional Supplements (3 credits) In S2010: Gave 2 lectures (52 students) In S2009: Gave 1 lecture (45 students) In S2008: Gave 1 lecture (47 students) In S2007: Gave 2 lectures (33 students) In S2006: Gave 2 lectures (35 students) In S2005: Gave 2 lectures (43 students) In S2004: Gave 2 lectures (35 students)

UNIVERSITY ACTIVITIES—University of Utah

2003-2004	Equal Opportunity and Affirmative Action Coordinating Committee
2002-2003	Women's Week Committee
	2002-2003: Linda Amos Award Sub-committee
2002	Red Butte Gardens Director Search Committee
2002-2003	Department of Exercise and Sports Science Faculty Search Committee
2002	Department of Oncological Sciences, Review of Dr. Frank Fitzpatrick
2001-2003	Presidential Commission on the Status of Women
	2001-2002: Sub-committee on Young Faculty Development
	Program: Initiating and Maintaining an Academic Research Program
	2003: Chair
2001-2002	Curriculum Policy Review Committee
2000	Eccles Health Sciences Library Retention, Promotion, and Tenure Committee
2000-2003	Health Sciences Gender Equity Task Force
2000-2001	Health Professions Academy Planning and Curriculum Committee
1999-2003	Integrative Health Network Executive Committee
1999-2002	College of Pharmacy Representative to the Graduate Council
1998-2001	Faculty Committee on Government and Community Relations
1996-1997	<i>Ad Hoc</i> Committee for Semester Conversion, Biological Chemistry Program
1996-1997	Curriculum and Advising Committee, Biological Chemistry Program
1995-2003	Biological Chemistry Training Grant Fellowship Selection Committee
1995-1996	Task Force to Study an "Honors College"
1995-1997	NCAA Certification Steering Committee
	Chair: Commitment to Equity Subcommittee
1995	Executive Committee of the Academic Senate
1995	Associate Academic Vice President (Policy and Personnel) Search Committee
1993-1995	Personnel and Elections Committee
	Chair: 1994-1995
1993-1996	College of Pharmacy Representative to the Academic Senate
1993-1997	Athletic Advisory Council
	Chair: 1996-1997
1992-1996	Admissions Committee, Biological Chemistry Program
	Chair: 1995-1996
1992-1996	Red Butte Gardens Design Committee for Medicinal Garden
1990-1993	Honors Program Advisory Committee
	Chair: 1991-1993
1990-1993	Credits and Admissions Committee

UNIVERSITY ACTIVITIES—University of Wisconsin

2009-Present	Campus Planning Committee
2008-Present	KL2 Review Committee, Institute for Clinical and Translational Research
2008-Present	MPH Distance Education Committee
2008-Present	VA Affiliation Partnership Council
2007-Present	MPH Student Promotion Committee
2007-Present	University Lectures Committee
2007-2008	Phi Kappa Phi Board of Directors
2007-Present	Board of Governors, Institute for Clinical and Translational Research
2006-2007	CIO Search and Screen Committee
2006-Present	Health Sciences Committee on Student Appeals and Grievances
2005-Present	Committee on Honorary Degrees
2005	Medical School Dean Search and Screen Committee
2004-2007	TEAM Program Advisory Committee
2003-Present	MPH Program Steering Committee
2003-2007	MPH Admissions Committee

Chair: 2005-2007

COLLEGE ACTIVITIES—University of Utah

2002-2003	Chair, Assistant Dean for Experiential Education Search Committee
2001-2003	Chair, Scholastic Standards Committee
2001-2003	Chair, Curriculum Committee
2001-2003	<i>Ex officio</i> member Professional Excellence and Leadership Committee Learning and Teaching Committee Pharm.D. Seminar Committee Dean's <i>Ad Hoc</i> Professional Education Advisory Committee Admissions Committee Awards and Financial Aid Committee
2001-2003	Chair, Wolf Prize Selection Committee
2001-2003	Faculty Advisor, Rho Chi Pharmacy Honor Society
2001	Pharmacy Practice Faculty Search Committee
2000-2002	Pharmacy Practice Chair Search Committee
1999-2001	College of Pharmacy Accreditation Steering Committee Co-chair: Mission, Planning, and Assessment Subcommittee
1999	Pharmaceutics and Pharmaceutical Chemistry Faculty Search Committee
1995-1996	College of Pharmacy Strategic Planning Committee Chair: Survey Subcommittee
1994-1995	College Delegate to the American Association of Colleges of Pharmacy
1993-1997	College of Pharmacy Admissions Committee
1993-1994	College of Pharmacy Dean Search Committee
1990-1993	Chair, Distinguished Lecturer Committee
1990-1991	Pharmacology and Toxicology Faculty Search Committee
1989-1993	College of Pharmacy Curriculum Committee
1989-1992	Faculty Advisor, Student Committee on Drug Abuse Education
1988-1989	College of Pharmacy Recruiting and Affirmative Action Committee

DEPARTMENTAL ACTIVITIES—University of Utah

2000-2001	Medicinal Chemistry Faculty Search Committee
2000	Chair, Organizing Committee, Ninth Southwestern Graduate Medicinal Chemistry Conference
1994	Chair, Medicinal Chemistry Retention, Promotion and Tenure Advisory Committee
1994	<i>Ad Hoc</i> Committee to Evaluate Appointment, Retention and Promotion of Non-Tenure Track Faculty
1993-1994	Chair, Organizing Committee, Sixth Santa Fe Graduate Medicinal Chemistry Conference
1990, 1995	Departmental Seminar Coordinator

COMMUNITY ACTIVITIES—Utah

1997	Volunteer, Salt Lake City's 150th Birthday Celebration
1996	Volunteer, "Salt Lake Salutes Atlanta" Olympic Torch Relay and Celebration
1995	Volunteer to Re-elect Deedee Corradini, Mayor, Salt Lake City
1990	Volunteer to Elect Deedee Corradini, Mayor, Salt Lake City
1990-1993	Planning Committee to implement Science Enrichment Program
1988-2003	Volunteer, KUER, National Public Radio

COMMUNITY ACTIVITIES—Wisconsin

2009	Volunteer, American Family Children's Hospital fundraiser
2005-2010	National Advisory Council, Make-A-Wish Foundation

PROFESSIONAL SOCIETY ACTIVITIES

2007-Present	AACP National Research Council Task Force
2006-2007	AACP Clinical Scientist Task Force
2006-2007	AACP Council of Deans Nominating Committee
2005-2007	AACP Council of Deans Resolution Committee
2005-2006	Dean Facilitator, AACP Leadership Fellows Program
2003-Present	Administrative representative to AACP
2003-Present	Pharmacy Society of Wisconsin Board of Directors

MEMBERSHIP IN SCIENTIFIC/PROFESSIONAL/COMMUNITY SOCIETIES

UW Pharmacy Alumni Association
 Pharmacy Society of Wisconsin
 American Association of Colleges of Pharmacy
 American Pharmacists Association
 American Society of Health-System Pharmacists
 American Association of Pharmaceutical Scientists
 American Chemical Society
 American Association for the Advancement of Science
 Rho Chi Pharmacy Honor Society
 Phi Delta Chi Pharmacy Fraternity
 Phi Kappa Phi National Honor Society
 Delta Omega Public Health Honor Society
 TEMPO Madison

OFFICES IN SCIENTIFIC/PROFESSIONAL SOCIETIES

1999-2002	American Association for the Advancement of Science Council Delegate, Section on Pharmaceutical Sciences
1998-2003	American Chemical Society Selection Committee, Utah Award, Salt Lake / Central Utah Sections
1997-1999	American Chemical Society Division of Medicinal Chemistry Award Nominating Committee
1995-1998	American Association for the Advancement of Science Electorate Nominating Committee, Section on Pharmaceutical Sciences Chair: 1997-1998
1992-1994	American Chemical Society Division of Medicinal Chemistry Long Range Planning Committee Symposia organized: <ol style="list-style-type: none"> 1. "Progress toward Drug Delivery of Peptides and Peptidomimetics," 204th National ACS Meeting, Washington, D.C., August 21-26, 1994 2. "Invertebrate Toxins as Novel Tools to Study K⁺ and Ca²⁺ Channels," 205th National ACS Meeting, San Diego, CA, March 13-18, 1994 3. "Therapeutic Modulation of Gene Expression," 207th National ACS Meeting, Denver, CO, March 28-April 3, 1993.
1990-1992	Secretary, Salt Lake Section of the American Chemical Society

SESSIONS CHAIRED AT SCIENTIFIC MEETINGS

2003	8th International Congress on Amino Acids and Proteins, Rome, Italy, Sept 5-9. Session title: <i>Selenocysteine: The 21st Amino Acid</i>
1999	6th International Congress on Amino Acids, Bonn, Germany, Aug 3-7. Session title: <i>Radiation and Free Radicals</i>
1996	47th Annual Meeting of the Radiation Research Society, Chicago, Illinois, March 18-23. Session title: <i>The Chemistry and Biochemistry of Radioprotective Thiols</i>
1991	2nd International Congress on Amino Acids and Analogues, Vienna, Austria, Aug 5-9. Session title: <i>Radiation and Isotopes</i>

EDITORIAL/REVIEW/ADVISORY ACTIVITIES

- 2003 Reviewer, U.S. Civilian Research and Development Foundation
- 2002-2005 Expert Committee on Dietary Supplements: Non-Botanicals, United States Pharmacopoeia, Washington, D.C.
- 2002-Present? Member, National Advisory Council (Natural Sciences Subgroup), Albright College, Reading, PA
- 2002-2005 Member, Cancer Drug Development Peer Review Committee, American Cancer Society *Chair*: 2005
- 2001 Member, Nature's Sunshine Products, Inc. Institutional Review Board
- 2001-2003 Reviewer, Biomedical Research Council of Singapore
- 2000-2001 *Ad Hoc* Member, Cancer Drug Development Peer Review Committee, American Cancer Society
- 2000 Special Member, Nutrition Study Section, National Institutes of Health
- 2000 Breast Cancer Research Program Review Panel, Department of Defense
- 2000-2003 Editorial Board, *American Journal of Chinese Medicine*
- 1996 Special Emphasis Panel, Pharmacology Study Section, NIGMS
- 1994 *Ad Hoc* Contracts Technical Review Group, National Cancer Institute
- 1992-2000 Editorial Board, *Amino Acids*
- 1986-Present Reviewer, *J Pharmaceutical Care in Pain & Symptom Control, Life Sci, Pediatric Res, Diabetologia, Int J of Radiat Biol, Drug Metab and Disp, J Pharm Sci, Biochim Biophys Acta, Amino Acids, J Org Chem, Chemical Reviews, Bioconj Chem, J Med Chem, Int J Pharmaceutical Compounding, Pharmaceutical Research, Am J Chinese Med, J Agric Food Chem, Bioorg Med Chem, Cancer Lett*

HONORS AND DISTINCTIONS

- 2003 College of Pharmacy Distinguished Teaching Award
- 2001 Invited to join Delta Omega Public Health Honor Society, University of Utah
- 2001 Outstanding Public Health Student Award, University of Utah
- 1999 Radiation Research Society Travel Award to the 11th International Congress of Radiation Research, Dublin, Ireland
- 1995 College of Pharmacy Distinguished Teaching Award
- 1995 Radiation Research Society Travel Award to the 10th International Congress of Radiation Research, Würzburg, Germany
- 1994 Invited to join Phi Kappa Phi National Honor Society, University of Utah
- 1991 National Research Council Travel Award to the 33rd IUPAC Congress, Budapest, Hungary
- 1986 J. Robert Oppenheimer Postdoctoral Fellowship, Los Alamos National Laboratory, Los Alamos, NM
- 1985 Invited to join Rho Chi Pharmacy Honor Society, University of Minnesota
- 1985 Louise T. Dossdall Fellowship in Science, University of Minnesota
- 1982 NIH Training Grant, Medicinal Chemistry, University of Minnesota
- 1981 Graduate School Fellowship, University of Minnesota

INVITED PRESENTATIONS/CONTRIBUTIONS

- 2010 "From the Garden to the Store: The Commercialization of Herbal Medicines," UW Foundation Bascom Hill Society Showcase Series, Madison, WI (July)
- 2010 Reviewer, *Echinacea palida* Monograph, American Herbal pharmacopoeia (June)
- 2010 "From the Garden to the Store: The Commercialization of Herbal Medicines," Madison Herb Society, Madison, WI (Mar)
- 2010 Reviewer, *Aloe vera* Monograph, American Herbal Pharmacopoeia (Mar)
- 2009 "Complementary and Alternative Medicines (CAM)," Drugs and Justice Symposium, Salt Lake City, UT (Mar)
- 2008 Reviewer, *Urtica doioca* Leaf Monograph, American Herbal Pharmacopoeia Monograph (Oct)

- 2008 Wisconsin Public Radio, on-air interview and listener call-in on the pharmacy workforce in WI (August)
- 2008 "Why do My ^&\$*! Drugs Cost So Much?" Wisconsin Alumni Association Founder's Day, Sturgeon Bay, WI (May)
- 2008 "Complementary and Alternative Medicines (CAM)," Drugs and Justice Symposium, Salt Lake City, UT (Mar)
- 2008 Reviewer, *Scutellaria* Monograph, American Herbal Pharmacopoeia (Apr)
- 2006 "Selenium Supplementation and Cancer Chemoprevention," Cancer Pharmacology Group, Madison, WI (Jan)
- 2005 "Why do My ^&\$*! Drugs Cost So Much?" and "Herbal Medicines: Help, Hype, or Hoax?" Wisconsin Weekend Away, Tucson, AZ (Mar)
- 2005 "Why do My ^&\$*! Drugs Cost So Much?" UW Founders Day, Hot Springs Village, AR (Mar)
- 2005 "Selenium Supplementation and Cancer Chemoprevention," Pharmaceutical Sciences Division, University of WI, Madison, WI (Jan)
- 2004 "Women's Health: Herbal Alternatives to Menopause?" Fall Pharmacy Institute, Madison, WI (Nov)
- 2004 Utah Public Radio, on-air interview and listener call-in (Nov)
- 2004 "Selenium Supplementation and Cancer Chemoprevention," UW Comprehensive Cancer Center Cancer Prevention Retreat, Madison, WI (Oct)
- 2004 "Herbal Medicines: Help, Hype or Hoax?" Pharmacy Society of Wisconsin Annual Meeting, Green Bay, WI (Sep)
- 2004 Utah Public Radio, on-air interview and listener call-in (May)
- 2003 "Selenium Supplementation and Cancer Chemoprevention," 8th International Congress on Amino Acids, Rome, Italy (Sept)
- 2003 "From the Lab to the Label: Natural Products in the Marketplace," 21st Annual Mountain West Chapter of the Society of Toxicology, Breckenridge, CO (Sep)
- 2003 "HIPAA and Experiential Education," Spring Preceptors Meeting, College of Pharmacy, Salt Lake City, UT (May)
- 2003 "Ephedra and Other Magic," Drugs and Justice Colloquium, University of Utah (Apr)
- 2003 "Herbal Medicines and Functional Foods," Idaho Dietetics Association, Idaho Falls, ID (Apr)
- 2003 Utah Public Radio, on-air interview and listener call-in (Mar)
- 2003 "Herbal Medicine: Primary Features for Primary Care," Family Practice Update, University of Utah (Mar)
- 2003 "Herbal Medicines in the Pharmacy," Pharmacy Technician Training Program, Ogden, UT (Feb)
- 2003 "Herbal Alternatives to HRT?" College of Nursing Continuing Education Program in Women's Health, Salt Lake City, UT (Jan)
- 2002 Utah Public Radio, on-air interview and listener call-in (Nov)
- 2002 "Late Bloomers: Herbal Medicine Research Update 2002," Colleges of Pharmacy / Nursing / Health Continuing Education Program, The 5th Annual Herbs and Foods as Medicine Conference: Update 2002, Salt Lake City, UT (Nov)
- 2002 Utah Public Radio, on-air interview and listener call-in (Jun)
- 2002 "Can Our Food Be Our Medicine? Functional Foods and Dietary Supplements," Utah Dietetics Association, Provo, UT (Apr)
- 2002 "Herbal Medicine Use in Kids: What Do We Know?" Jordan School District, Sandy, UT (Mar)
- 2002 "Dietary Supplements and Fibromyalgia," Utah Arthritis Foundation, Salt Lake City, UT (Mar)
- 2002 "Dietary Supplements and the Law," PHIL 7510 Applied Ethics, University of Utah, Salt Lake City, UT (Mar)
- 2002 "Blood, Sweat, and Tears: Has Olympic Drug Testing Gone Too Far?" Utah Science Center public forum panel member, Salt Lake City, UT (Jan)
- 2001 Reviewer, *Bilberry Fruit*, American Herbal Pharmacopoeia Monograph (Dec)
- 2001 Utah Public Radio, on-air interview and listener call-in (Dec)
- 2001 "Late Bloomers: Herbal Medicine Research Update 2001," Colleges of Pharmacy / Nursing / Health Continuing Education Program, The 4th Annual Herbs and Foods as Medicine Conference: Update 2001, Salt Lake City, UT (Nov)
- 2001 "Herbal Medicine Use in Kids: What Do We Know?" Children's Mental Health Institute, Salt Lake City, UT (Nov)

- 2001 "Herbal Medicine: Is It for You or Your Patients?" Intermountain Pediatric Society, Salt Lake City, UT (Nov)
- 2001 "Herbal Medicines: Any Value in Brain Injury?" Brain Injury Association of Utah, Salt Lake City, UT (Oct)
- 2001 "Herbs and Supplements in Arthritis: What You Need to Know," Utah Arthritis Foundation Adult Education Day, Primary Children's Medical Center, Salt Lake City, UT (Sep)
- 2001 Utah Public Radio, on-air interview and listener call-in (Jul)
- 2001 "Herbal Medicines: Pioneers to Present," Herb Day, This is the Place State Park, Salt Lake City, UT (Jun)
- 2001 "Dietary Supplements: Value in Arthritis?" Department of Medicinal Chemistry (MDCH 5990 Non-Botanical Dietary Supplements), University of Utah, Salt Lake City, UT (Apr)
- 2001 Review Committee, *Goldenseal Root*, American Herbal Pharmacopoeia Monograph (Apr)
- 2001 Juvenile Arthritis Foundation, Primary Children's Medical Center, Salt Lake City, UT (Mar)
- 2001 Continuing Medical Education in Alternative Medicines, Grand Junction, CO (Feb)
- 2001 Utah Public Radio, on-air interview and listener call-in (Jan)
- 2001 Utah Medical Association, University of Utah, Salt Lake City, UT (Jan)
- 2000 Women's Health Research Group, University of Utah (Dec)
- 2000 Colleges of Pharmacy / Nursing / Health Continuing Education Program, The 3rd Annual Herbs and Foods as Medicine Conference: Update 2000, Salt Lake City, UT (Nov)
- 2000 Health Sciences Council, University of Utah (Oct)
- 2000 *Maintaining the Miracle: an Owner's Manual for the Human Body*, Contributing author on dietary supplements (Oct)
- 2000 A Woman's Journey: Leading Your Patients to Health and Wellness, Continuing Medical Education Program, Denver, CO (Oct)
- 2000 A Woman's Journey: Finding Your Way to Health and Wellness, Wyeth-Ayerst Consumer Education Program in Alternative Medicines, St. Joseph Hospital, Denver, CO (Oct)
- 2000 Interviewed for Reuters Health Information <<http://www.reutershealth.com>> (Sep)
- 2000 Rx Plus Continuing Pharmacy Education Program, Herbs in Women's Health, Denver, CO (Sep)
- 2000 Pharmacology of the New Millennium, Continuing Medical Education Program, Cheyenne, WY (Sep)
- 2000 "Selenium Supplementation and Cancer Chemoprevention," Symposium on Chemoprevention, 220th American Chemical Society National Meeting, Washington, D.C. (Aug)
- 2000 Herbal Alternatives to Hormone Replacement Therapy, Ft. Collins, CO (Aug)
- 2000 Review Committee, *Ashwagandha Root*, American Herbal Pharmacopoeia Monograph (Jun)
- 2000 Speaking of Women's Health Conference, Salt Lake City, UT (May)
- 2000 KCPX 88.3 FM, on-air interview (Apr)
- 2000 WIC In-Service Training Program, Salt Lake City, UT (Apr)
- 2000 Continuing Medical Education Program: Focus on Female Physicians, Colorado Springs, CO (Apr)
- 2000 Utan Nurses Association District Conference: Alternative Medicines, Provo, UT (Apr)
- 2000 Hormone Replacement Therapy: Are Herbs Appropriate? Lecture Series (3), Ft. Collins, CO (Mar)
- 2000 Wyeth-Ayerst Consumer Education Program in Alternative Medicines, Poudre Valley Hospital, Ft. Collins, CO (Mar)
- 2000 Wyeth-Ayerst Consumer Education Program in Alternative Medicines, St. Joseph's Hospital, Denver, CO (Mar)
- 2000 Spring Educational Workshop, Association of Operating Room Nurses of Northern Utah, Salt Lake City, UT (Mar)
- 2000 Texas Academy of Physicians Assistants 25th Annual Primary Care Conference, Dallas, TX (Mar)
- 2000 Continuing Medical Education Program on Herbal Medicines, Dietary Supplements Your Patients Won't Tell You About, LDS Hospital, Salt Lake City, UT (Feb)
- 2000 "Advances in Selenium Supplementation," Department of Foods and Nutrition, Brigham Young University, Provo, UT (Feb)
- 2000 Ladies Literary Club, Salt Lake City, UT (Jan)
- 1999 Radiation Oncology Resident Lecture Series, University of Utah, Salt Lake City, UT (Dec)
- 1999 "Radioprotection by Novel Thiolamines," Department of Radiation Oncology, University of Utah, Salt Lake City, UT (Nov)
- 1999 LifeCare Experience Corps Group In-Service Training Program, Salt Lake City, UT (Nov)

- 1999 Continuing Medical Education Program in Alternative Medicines, Castleview Hospital, Price, UT (Nov)
- 1999 Utah Nurses Association Conference, Thriving in the New Millennium, Park City, UT (Nov)
- 1999 Fitness, Food and "Ph"armacy 4U in Y2K, Health Sciences Advocates, University of Utah, Salt Lake City, UT (Oct)
- 1999 Pharmacists Continuing Education Program, Natural Products in the Pharmacy, Phoenix, AZ (Oct)
- 1999 Celebrate the Journey, Women's Healthcare Providers Conference, Park City, UT (Oct)
- 1999 Contributing author, *Astragalus Root*, American Herbal Pharmacopoeia Monograph (Sep)
- 1999 "International Issues in Herbal Medicine Production and Use," Department of Family and Preventive Medicine (FPMD 6502 International Public Health), University of Utah, Salt Lake City, UT (Sep)
- 1999 Utah Public Radio, on-air interview and listener call-in (Sep)
- 1999 Partnership 2000: Improving Health Care in the New Millennium, North Carolina Association of Health Plans Conference, Greensboro, NC (Sep)
- 1999 Alternative Medicine and the Menopausal Patient, Wyeth-Ayerst Education Program, Raleigh, NC (Sep)
- 1999 Aging Gracefully into the Millennium Conference, Colorado Women's Health Campaign, Denver, CO (Sep)
- 1999 "Antimutational Activity of Thiazolidine Prodrugs," 6th International Congress on Amino Acids, Bonn, Germany (Aug)
- 1999 "Protection against Radiation-Induced Toxicity and Mutagenesis by Thiazolidine Prodrugs," 11th International Congress of Radiation Research, Dublin, Ireland (July)
- 1999 "Non-Clinical Preventive Medicine: Self-Medication with Dietary Supplements," Department of Family and Preventive Medicine (FPMD 6505 Clinical Preventive Services), University of Utah, Salt Lake City, UT (July)
- 1999 Women's Study Group, Salt Lake City, UT (June)
- 1999 Utah Medical Association, Salt Lake City, UT (May)
- 1999 Continuing Medical Education Program (Ob/Gyn), Denver, CO (May)
- 1999 Utah Association of Occupational Health Nursing Conference, Salt Lake City, UT (May)
- 1999 Wyeth-Ayerst Consumer Education Program in Herbal Medicines, Phoenix, AZ (May)
- 1999 "Herbal Medicines: Can They Lower Your Cholesterol?" *Inherited High Cholesterol Newsletter*, invited article (Apr)
- 1999 "Selenium Supplementation and Cancer Chemoprevention," Department of Pharmaceutical Sciences, University of Nebraska, Omaha, NE (Apr)
- 1999 Utah Arthritis Foundation, Salt Lake City, UT (Apr)
- 1999 Grand Rounds, Lander Regional Medical Center, Lander, WY (Mar)
- 1999 Newsletter for the Intermountain Chapter of the Oncology Nursing Society, invited article (Feb)
- 1999 "Advances in Selenium Supplementation Applied to Cancer Chemoprevention," Department of Medicinal Chemistry, University of Minnesota, Minneapolis, MN (Jan)
- 1999 Update on Complementary Therapeutics, Yosemite National Park, Yosemite, CA (Jan)
- 1998 "Non-Clinical Preventive Medicine: Self-Medication with Dietary Supplements," Department of Family and Preventive Medicine (FPMD 6505 Clinical Preventive Services), University of Utah, Salt Lake City, UT (Nov)
- 1998 Medicine in the Intermountain West: Fall '98 Update, Salt Lake City, UT (Nov)
- 1998 Grand Rounds, McKay-Dee Hospital Center, Ogden, UT (Nov)
- 1998 Superwoman at Forty...What Happens Next? Westminster College, Salt Lake City, UT (Oct)
- 1998 "Herbal Medicines," Department of Medicinal Chemistry (MDCH 313 Complementary Therapeutic Practices), University of Utah, Salt Lake City, UT (Oct)
- 1998 "Herbal Medicines: Help, Hype or Hoax?" *Today's Internist*, invited article (Sep)
- 1998 Annual Bergen Brunswig Drug Company's Healthcare Congress, San Antonio, TX (July)
- 1998 5th Annual Pharmacology Conference, College of Nursing, University of Utah, Salt Lake City, UT (July)
- 1998 Association of Students of Pharmacy, College of Pharmacy, University of Utah, Salt Lake City, UT (Feb)
- 1998 Neighborhood Garden Club, Salt Lake City, UT (Feb)
- 1998 Salt Lake Tribune, invited column (Feb)

- 1998 Utah Medical Association, School of Medicine, University of Utah, Salt Lake City, UT (Feb)
- 1998 Utah Public Radio, on-air interview and listener call-in (Jan)
- 1998 Alternative Medicine Seminar Series, College of Nursing, University of Utah, Salt Lake City, UT (Jan)
- 1997 American Society of Health-System Pharmacists Mid-Year Clinical Meeting, Atlanta, GA (Dec)
- 1997 "Non-Clinical Preventive Medicine: Self-Medication with Dietary Supplements," Department of Family and Preventive Medicine (FPMD 580 Clinical Preventive Services), University of Utah, Salt Lake City, UT (Nov)
- 1997 Medicine in the Intermountain West: Fall '97 Update, Salt Lake City, UT (Nov)
- 1997 KUER, on-air interview (Oct)
- 1997 Association of Forensic Toxicologists, Salt Lake City, UT (Oct)
- 1997 "Targeted Delivery of Glutathione Precursors to the Liver," 5th International Congress on Amino Acids, Chalkidiki, Greece (Aug)
- 1997 Red Butte Gardens Thursday Lecture Series, Salt Lake City, UT (July)
- 1997 Chemistry Summer Program, University of Utah, Salt Lake City, UT (June)
- 1997 Family Practice Grand Rounds, Salt Lake Regional Medical Center, Salt Lake City, UT (June)
- 1997 "Gender Equity in Athletics at the University of Utah," 83rd Annual Meeting of the American Association of Collegiate Registrars and Admissions Officers, Salt Lake City, UT (Apr)
- 1997 "Herbal Medicines," Department of Medicinal Chemistry (MDCH 313 Complementary Therapeutic Practices), University of Utah, Salt Lake City, UT (Apr)
- 1997 "Radioprotection: A Clinical Necessity," Department of Pediatrics, University of Vienna, Vienna, Austria (Mar)
- 1996 College of Pharmacy Continuing Education Program, Salt Lake City, UT (Oct)
- 1996 Utah Society of Health-System Pharmacists Annual Meeting, Park City, UT (Sep)
- 1996 "Synthesis and Evaluation of Novel Thiazolidine Radioprotective Agents," Armed Forces Radiobiology Research Institute, Bethesda, MD (Aug)
- 1996 "Dendrimers in Drug Delivery," Monsanto Corporation, Saint Louis, MO (June)
- 1996 Food as Medicine Workshop, University of Utah Nutrition Clinic, Park City, UT (May)
- 1996 "Herbal Medicines," Department of Medicinal Chemistry (MDCH 551 Nutritional Aspects of Pharmacy Practice), University of Utah, Salt Lake City, UT (Apr)
- 1996 47th Annual Meeting of the Radiation Research Society, Chicago, IL (Mar)
- 1995 University of Utah Biosciences Symposium, Salt Lake City, UT (Sep)
- 1995 Biomedical Polymers Research Building Research Update, University of Utah (May)
- 1995 Health Sciences Council, University of Utah (Jan)
- 1994 Department of Pharmacology and Toxicology, University of Utah (June)
- 1994 Argonne National Laboratory, Argonne, IL (Mar)
- 1994 Department of Surgical Oncology, Hennepin County Medical Center, Minneapolis, MN (Mar)
- 1994 Biochemistry Interest Group, University of Utah (Feb)
- 1992 5th Santa Fe Graduate Medicinal Chemistry Conference, Santa Fe, NM (July)
- 1992 Department of Chemistry, Brigham Young University, Provo, UT (Mar)
- 1991 Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah (Nov)
- 1991 2nd International Congress on Amino Acids, Vienna, Austria (Aug)
- 1991 Department of Immunology, University of Washington, Seattle, WA (Mar)
- 1988 Department of Pharmacology/Toxicology, University of New Mexico, Albuquerque, NM (Apr)
- 1988 Department of Medicinal Chemistry, University of Utah (Feb)
- 1988 Section of Medicinal Chemistry, Northeastern University, Boston, MA (Feb)
- 1987 Department of Medicinal Chemistry, University of North Carolina, Chapel Hill (Nov)

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