CURRICULUM VITAE

PERSONAL

Peter M. Gannett
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EDUCATIONAL BACKGROUND

Dates	Degree	Institution
8/85 - 9/86	Post-Doctoral, Chemical Carcinogenesis	University of Nebraska-Medical Center
4/82 - 7/83	Post-Doctoral, Synthetic Organic	University of Wisconsin-Madison (Pharmacy)
8/77 - 3/82	Ph.D., Organic Chemistry	University of Wisconsin-Madison (Chemistry)
9/73 - 5/77	B.S. Chemistry (Cum Laude)	University of Missouri-Columbia

Ph.D. DISSERTATION

Advisor Stephen F. Nelsen
Title Conformational Analysis and Electron Transfer Reactions of Tetra-, Penta-, and Hexaalkylhydrazines

PROFESSIONAL EXPERIENCE

6/00-Present	Professor, Department of Basic Pharmaceutical Sciences, WVU, Morgantown, WV
7/98-Present	Dir., Computational Chemistry and Molecular Modeling Lab, WVU, Morgantown, WV
10/97-Present	Associate Chair, Department of Basic Pharmaceutical Sciences, WVU, Morgantown, WV
7/94-6/00	Associate Professor, School of Pharmacy, West Virginia University, Morgantown, WV
1/96-9/97	Interim Chairman, Basic Pharmaceutical Sci., School of Pharmacy, WVU, Morgantown, WV
4/90-6/94	Assistant Professor, School of Pharmacy, West Virginia University, Morgantown, WV
5/89-4/90	Research Assistant Professor, Eppley Cancer Institute, Univ. of NE Med. Ctr, Omaha, NE
10/86-4/89	Research Instructor, Eppley Cancer Institute, Univ. of NE Med. Ctr, Omaha, NE
8/85-9/86	Research Associate, Eppley Cancer Institute, Univ. of NE Med. Ctr, Omaha, NE
8/83-7/85	Senior Research Chemist, Organic and Rubber Chemicals, Mobay Chem. Corp., Pgh, PA
4/82-7/83	Research Associate, Prof. Charles Sih, Pharmacy, Univ. of Wisconsin-Madison, Madison, WI
11/78-3/82	Project Assistant, Prof. Huk Yu, Department of Chemistry, Univ. of Wisconsin, Madison, WI
5/77-7/77	Research Assistant, Prof. Scott Searles, University of Missouri-Columbia

HONORS, ACTIVITIES, ORGANIZATIONS

A) Honors and Awards

1) Outstanding Teacher of the Year Award, 1st Year Class, School of Pharmacy, WVU, 1991-92
2) Gottlieb Award, School of Pharmacy, West Virginia University, April 30, 1992
3) Outstanding Teacher of the Year Award, 2nd Year Class, School of Pharmacy, WVU, 1997-98
4) Safety Committee Achievement Award, 3/99
5) Honorable mention, AACP Innovations in Teaching Competition, 1999
6) Out Standing Teacher of the Year, PharmD 1st Year, 1999-2000
7) Out Standing Teacher of the Year, PharmD 1st Year, 2002-2003
8) Benedum Distinguished Scholarship Award (Nominated) 2004-2005
9) Outstanding Teacher of the Year, PharmD 1st Year, 2004-2005
10) R.C. Byrd Professorship (Sponsor WVURC), 2008

B) Organizations

1) Member-American Chemical Society
2) Member-The Organic Chemistry division, American Chemical Society
3) Member-The Medicinal Chemistry division, American Chemical Society
4) Member-Rho Chi Society

C) Activities - Past

1) Referee for the University of Nebraska-Medical Center Student Research Forum, 1988
2) Judge for the Metropolitan Science and Engineering Fair, Omaha, NE (1986-1988)
3) Referree for the WVU School of Pharmacy Undergraduate Research Symposium (1991-1997)
4) Scientific Advisory Committee "Oxygen Radicals and Lung Injury meeting", August 1993, Morgantown, WV
5) Scientific Advisory Committee "Collaboratories Conference", March 29-30, 1996, Morgantown, WV
6) Member, Scientific Advisory Committee, 3rd International Conference on Oxygen and Nitrogen Centered Radicals, Cell Injury, and Disease, June 2002, Lakeview Resort, Morgantown, WV
7) Judge, 2003 Van Liere Research Award
8) Organizer, 'The 2005 Madison Organic Chemistry Symposium', June 3-4, 2005, Madison, WI

D) Activities - Present

1) Journal Referee: Journal of Organic Chemistry, Synthesis, and Pharmaceutical Research, Journal of Inorganic Biochemistry Biochemistry and Biophysics Research Communications, Life Sciences, Archives of Biochemistry and Biophysics, Chemical Research and Toxicology, Free Radicals in Biology and Medicine, J. Labelled Compounds and Radiopharmaceuticals, Bioorganic and Medicinal Chemistry Letters, Journal Toxicology and Environmental Health, Journal of Computer-Aided Design
2) *Ad hoc* reviewer for grants submitted to the American Heart Association
3) *Ad hoc* reviewer for grants submitted to AREA grant program/NIH
4) NCI Special Emphasis Panel
5) CRDF Grant Reviewer
6) Member, Molecules editorial board. http://www.mdpi.org/molecules/editors-regional.htm

SUPPORT

A) Past Sources of Support

1) *Source of Support*: National Institutes of Health (R01 CA40989-01), *Project Title*: Capsaicin: Chemistry, Carcinogenesis, and Mode of Action, *Principal Investigator*: Bela Toth, *Annual Direct Costs*: $91,433, *Period of Support*: 7/1/85-6/30/88
2) *Source of Support*: American Cancer Society Institutional Research Grant (86-104), *Project Title*: Evaluation of N-Nitrosohydrazines Mutagenicity Compared to Model N-Nitrosamines, *Principal*

Investigator: Peter M. Gannett, *Annual Direct Costs*: $ 2,000, *Period of Support*: 7/1/86-6/30/87

3) *Source of Support*: Nebraska Cancer and Smoking Disease Research (88-14), *Project Title*: Early Detection of Cancer by Proton NMR Analysis of Blood Plasma, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $20,964, *Period of Support*: 7/1/87-6/30/88
4) *Source of Support*: National Institutes of Health (CA44075), *Project Title*: False Morel Hydrazines: Carcinogenesis and Chemistry, *Principal Investigator*: Bela Toth, *Annual Direct Costs*: $116,946, *Period of Support*: 1/87-12/89
5) *Source of Support*: National Institutes of Health (1-47-0491233 (B9)), *Project Title*: Carcinogenesis and Chemistry of Cultivated Mushrooms, *Principle Investigator*: Bela Toth, *Annual Direct Costs*: $109,235, *Period of Support*: 9/1/87-12/31/97
6) *Source of Support*: ACS Cancer Prevention Grant (SIG-16), *Project Title*: Regioselectivity in Nitrosamine Activation, *Principal Investigator*: Peter M. Gannett, *Annual Direct Costs*: $ 4,600, *Period of Support*: 2/15/88-2/14/89
7) *Source of Support*: ACS Cancer Prevention Grant (88-08 ACS # SlG-l6), *Project Title*: Cytochrome P-450IIE1: Endogenous Regulation Pathway, *Principal Investigator*: Pat Iversen, *Annual Direct Costs*: $ 7,700, *Period of Support*: 7/1/88-6/30/89
8) *Source of Support*: University of Nebraska Medical Center (SG#90-14), *Project Title*: The Identification of DNA Adducts from Hydrazines and Hydrazine Derived Radicals, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $6165.85, *Period of Support*: 7/1/89-6/30/90
9) *Source of Support*: American Cancer Society Institutional Grant (WVU, IN-181), Project Title: C-8-Guanine Adducts in DNA from Carcinogenic Hydrazines and Hydrazine Derived Radicals, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $9,975.00, *Period of Support*: 7/1/90-6/30/91
10) *Source of Support*: National Institutes of Health (1R15GM46067), *Project Title*: Base-pair and Stacking Properties of 8-Hydroxyguanine, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $124,098, *Period of Support*: 5/1/91-12/31/94
11) *Source of Support*: School of Pharmacy, West Virginia University, Lenard Gotlieb Award, *Project Title*: Synthesis and Base Pairing Properties of 8-Hydroxy-2'- deoxyadenosine, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $ 500.00, *Period of Support*: 6/1/91 - 5/31/92
12) *Source of Support*: West Virginia University Senate Faculty Grant Program (R-93-013), *Project Title*: NMR of Triplex DNA Containing Triplets Based on 8-Oxoadenine, *Principle Investigator*: Peter M. Gannett, *Annual Direct Costs*: $7,000, *Period of Support*: 7/1/93-6/30/94
13) *Source of Support*: National Science Foundation (BIR-9413771), *Project Title*: Acquisition of a Mass Spectrometer to Update the Multi-User Mass Spectrometry Center at West Virginia University, *Principal Investigator*: Mary J. Wimmer, *Role in Project*: Co-investigator, *Annual Direct Costs*: $ 139,820, *Period of Support*: 9/14/94-11/30/96
14) *Source of Support*: WVU Faculty Senate Grant, *Project Title*: Triplex DNA: Spin-Probe Based Detection, Structure and Stability Determinations (R-96-024), *Principal Investigator*: Peter M. Gannett, *Annual Direct Costs*: $7,500, *Period of Support*: 7/1/96-6/30/97
15) *Project Title*: Introduction to Irix, *Source of Support*: WV University Faculty Senate - Faculty Development Grant, *Principal Investigator*: Peter M. Gannett, *Annual Direct Costs*: $500 requested, $250 awarded, *Period of Support*: 9/21/98-9/25/98
16) *Title of Research Proposal*: Development of Computerized Multidisciplinary Problem-Based Learning Cases with Concept Map Integration, *Agency Submitted to (Identifying Number)*: The Comprehensive Program Fund for the Improvement of Postsecondary Education (P116A 6/725), *Principal Investigator*: Marie Abate, Co-Investigators: Anne H. Nardi, Paula Jo Stout, Teresa S. Dunsworth, Robert K. Griffith, Peter M. Gannett, *Amount Requested*: $ 183,201, *Period of Support*: 9/1/96-8/31/99
17) *Source of Support*: Federal Bureal of Investigation, Advanced Trace Evidence Analysis (WP # 122), *Project Title*: Degradation of Drugs in Embalmed Tissue, *Principal Investigator*: Timothy S. Tracy, *Co-Investigator*: Peter M. Gannett, *Annual Direct Costs*: $139,601, *Period of Support*: 10/1/98-12/31/00
18) *Title of Research Proposal*: Enhancement of the WVU-BPS Nuclear Magnetic Resonance Facility, *Agency Submitted to*: West Virginia University Research Corp, *Principal Investigator*: Peter M. Gannett, *Amount Requested*: $42,000, *Period of Support*: 07/01/00-06/30/01
19) *Title of Research Proposal*: Virtual Environments REU Site, *Agency Submitted to*: NSF (00-107), *Principal Investigator*: Frances L. Van Scoy, *Co-Investigator (% Effort)*: 5%, *Amount Requested*: $330,522 ($50,000 to PM Gannett), *Period of Support*: 9/15/00-8/14/01
20) *Title of Research Proposal*: WVU Interdisciplinary Project to Establish a Foundation for Research In Assay Testing Via Coupled Advancements in Synthetic Chemistry, Optical Biochip Technology, and Polymerase Chain Reaction Instrumentations, *Agency Submitted to*: WVU Research Corporation, *Principal Investigator*: Kathleen Meehan, *Co-Investigator (% Effort)*: D. Yelton, L. Hornack, H. Finklea,

and P. Gannett, *Amount Requested*: $50,000, *Period of Support*: 7/1/00-6/30/01

21) *Title of Research Proposal*: Antisense and triplex DNA formation in cells by ESR, *Agency Submitted*: National Institutes of Health, BBCB, *Principal Investigator*: Peter M. Gannett, *Co-Investigator(s)*: M. Miller (Bichemistry, WVU), *Amount Requested*: $109,362.50, Period of Support: 4/1/98-3/31/02
22) *Title of Research Proposal*: HFEPR Unconstrained and Constrained Spin labeled DNAs, *Agency Submitted to*: National High Field Magnet Laboratory, *Principal Investigator*: Peter M. Gannett, *Amount Requested*: Use of HFEPR Equipment and Lodging ($5000 in kind), *Period of Support*: 1/28-02-2/2/02
23) *Agency Submitted to*: NETL-DOE, *Principal Investigator*: Peter M. Gannett, *Amount Requested*: 1000 SU CPU time, *Period of Support*: 1/1/2002-6/30/2002
24) *Title of Research Proposal*: Advancing the Research Mission at WVU via High Field NMR, *Agency Submitted to*: WVU Research Corporation, *Principal Investigator*: K. Brummond, Co-Investigator: P. Gannett, K. Wang, A. Stolzenberg, B. Soderberg, *Amount Requested*: $160,000, *Period of Support*: 7/1/01-6/30/02
25) *Title of Research Proposal*: EPR Characterization of Highly Structured DNA Nanoarrays, Agency Submitted to: NFS-EPSCoR Collaborative Mini-Proposal, *Principal Investigator*: Peter Gannett, *Co-Investigator*: M. Norton, *Amount Requested*: $21,000, *Period of Support*: 7/1/2001-6/30/2002
26) *Title of Research* Proposal: Acquisition of a High-Field NMR, *Agency Submitted to*: National Science Foundation, *Principal Investigator*: Harry O. Finklea, *Co-Investigator*: B. Soderberg, K. Wang, A. Stolzenberg, P.M. Gannett, *Amount Requested*: $246,820, *Period of Support*: 7/01/02-6/30/05
27) *Title of Research Proposal*: Laboratory Computational Chemistry and Chemical Biology, *Agency Submitted to*: WVU Research Corporation, *Principal Investigator*: Peter M. Gannett, *Co-Investigator*: P.S. Callery, P.M. Gannett, R.K. Griffith, T.S. Tracy, D. Beattie, J.E. Mahaney, M. Miller, A. Shiemke, K.M. Brummond, D. Mohler, A. Stolzenberg, *Amount Requested*: $90,000, *Period of Support*: 7/1/98-6/30/03
28) *Title of Research Proposal*: Intracellular fluorescent trapping of protein radicals, *Agency Submitted to*: Bridge Grants and Research Development Grants, WVU SoM, *Principal Investigator*: Michael Gunther, *Co-Investigator*: Peter Gannett, *Amount Request*: $7,200, *Period of Support*: 7/1/03-6/30/04
29) *Title of Research Proposal*: Dapsone Activation of CYP2C9: A Molecular Modeling Study, *Agency Submitted to*: WVBRIN, *Principal Investigator*: Jarrett Aguilar, *Co-Investigator*: Peter Gannett, *Amount Request*: $26,957, *Period of Support*: 09/15/03-08/31/04
30) *Title of Research Proposal*: Methods for Identifying Drug Degradation Products Following Embalming, *Agency Submitted to*: NIJ, *Principal Investigator*: Tim Tracy, *Co-Investigator (% Effort)*: Peter Gannett, P.S. Callery, R. Haining, *Amount Requested*: $108,429, *Period of Support*: 8/15/02-9/30/04
31) *Title of Research Proposal*: Formalin Fixation Effects on DNA Fingerprinting, *Agency Submitted to*: NIJ, *Principal Investigator*: Peter Gannett, *Co-Investigator (% Effort)*: Timothy Tracy, P.S. Callery, R. Haining, *Amount Requested*: $150,000, *Period of Support*: 8/15/02-9/30/04
32) *Title*: WV Blueprint for Science and Technology: Strengthening Statewide Multidisciplinary Academic Research Infrastructure - Task 1-1, Synthesis of complex biologically active compounds for use as probe molecules on a biological sensor (incl. Beacon probe, spin probe), *Agency Submitted to*: NSF-EPSCoR, *Principal Investigator*: Edwin Rood, *Co-Investigator*: Peter Gannett, Bjorn Soderberg, *Amount Request*: $294,000, *Period of Support*: 1/1/02-12/31/04
33) *Title*: WV Blueprint for Science and Technology: Strengthening Statewide Multidisciplinary Academic Research Infrastructure - Task 1-6 NMR (600 MHz) acquistion and installation, *Agency Submitted to*: NSF-EPSCoR, *Principal Investigator*: Edwin Rood Co-Investigator: Peter Gannett, Bjorn Soderberg, *Amount Request*: $809,800, *Period of Support*: 1/1/02-12/31/04
34) *Title of Research Proposal*: Mechanisms of Atypical Drug Kinetics and Interactions, *Agency Submitted to*: NIH, *Principal Investigator*: Timothy S. Tracy, *Amount Requested*: $ 525,000 (Direct Costs), *Period of Support*: 04/01/01-03/31/05
35) *Title of Research Proposal*: Nanofilament Directional Control within a Hybrid Microelectronic Actin-Myosin Motility Assay via Integrated Electric Field Addressing, *Agency Submitted to*: NSF, *Principal* Investigator: Parviz Famouri, *Co-Investigator*: Peter Gannett, Larry Hornak, Aaron Timperman, *Amount Requested*: $129,988, *Period of Support*: 06/01/04-05/31/06
36) *Title of Research Proposal*: Nano-cantileverDetection of the Cancer Marker Proteins VEGF, VEGF-C, and MMP-9, *Agency Submitted to*: HSC RFDG Program, *Principal Investigator*: Peter M. Gannett, *Co-Investigators*: Dan Flynn and David Lederman, *Type of Submission*: New, *Amount Requested (Direct Costs)*: $10,000, Period of Support: 1/1/06-6/30/06
37) *Title of Reserach Proposal*: Training Grant in Cancer Nanotechnology, *Agency Submitted to*: WV EPSCoR, *Principal Investigor*: Dan Flynn and Peter Gannett (Co-PI), *Amount Requested*: $1,400,000, *Period of Support*: 1/1/05-12/31/08

38) *Title of Research Proposal*: WV INBRE, *Agency Submitted to*: NIH, *Principal Investigator*: Gary Rankin, *Amount Requested*:$16,779,186 (Gannett/Aguilar $770,434,Direct Costs), *Period of Support*: 06/01/04-05/31/09

B) Current Sources of Support

1) *Title of Research Proposal*: Pharmacogenetics and Drug Interactions, *Agency Submitted to*: NIH GM069753-03), *Principal Investigator*: Tim Tracy, *Co-Investigator*: Peter Gannett, *Amount Request*: $1,220,301, *Period of Support*: 08/01/04-07/31/09
2) *Title of Research Proposal*: Virginia IDeA Network of Biomedical Research Excellence (WV-INBRE) (2P20RR016477-09), *Agency Submitted to*: NIH, *Principal Investigator*: Gary Rankin, *Amount Requested*: $17,818,708 (Gannett/Aguilar $770,434,Direct Costs), *Period of Support*: 06/01/09-05/31/14.
3) *Title of Research Proposal*: Mechanisms of Atypical Drug Kinetics and Interactions, *Agency Submitted to*: NIH(GM063215-04A1), *Principal Investigator*: Timothy Tracy, *Co-Investigator*: Peter Gannett, *Amount Requested*: $1,250,000 ($265,000 to P.M. Gannett), *Period of Support*: 7/01/05-6/30/09
4) *Title of Reserach Proposal*: Training Grant in Cancer Nanotechnology, *Agency Submitted to*: WV EPSCoR, *Principal Investigor*: Peter Gannett (Co-PI), *Amount Requested*: $1,400,000, *Period of Support*: 1/1/09-12/31/12
5) *Title of Research Proposal*: International Innovation Grant: Increasing International Exposure and Collaborations for the WVNano Initiative, *Agency Submitted to*: WVEPSCoR, *Principal Investigator*: James Lewis, *Type of Submission*: New, *Amount Requested*: $40,000 (Direct Costs), *Period of Support*: 1/1/07-12/31/09
6) *Title of Research Proposal*: Electrochemical Biosensors Based on DNA/Aptamer, *Agency Submitted to*: Brown-Hott Foundation, *Principal Investigator*: Nick Wu, *Amount Requested*: $10,000 (Direct Costs), *Period of Support*: 1/1/2007-12/31/2012
7) Title of Research Proposal: REU, Agency Submitted to: NSF, *Principal Investigator*: David Lederman, *Amount Requested*: $200,000, *Period of Support*: 1/1/07-12/08
8) Title of Research Proposal: Targeted Magnetic Nanoparticles for Cancer Diagnosis and Treatment, Agency Submitted to: MBRCC, Principal Investigator: Lloyd Carroll, Type of Submission: New, Amount Requested (Direct Costs): $50,000, Period of Support: 07/01/2008-06/30/2009.
9) Title of Proposal*:* " Supramolecular Structure and Materials in Nanoscience at Jilin University", Agency Submitted to: NSF, Role in Project*:* Co-Investigator, Funds Requested*:*$145,000, Period of Funding: 1/1/09-12/31/11

C) Sources of Support Pending

1) *Title of Research Proposal*: West Virginia University (WVU)/ Norfolk State University (NSU) IGERT: Nano-bio-molecular Transport & Recognition, *Agency Submitted to*: NSF, *Principal Investigator*: Parviz Famouri, *Co-Investigators*: Carl E. Bonner (Norfolk State University, VA), Peter Gannett, David Lederman, Michelle Richards-Babb, *Type of Submission*: New (Pre-Proposal), *Amount Requested (Direct Costs)*: $3,000,000, *Period of Support*: 7/01/09-6/30/14
2) *Title of Research Proposal*: P450 Protein-Protein Interactions Determined by Selective Protein Manipulation, *Agency Submitted to*: NIH (1R01GM081348-01), *Principal Investigator*: Peter M. Gannett, *Type of Submission*: New, *Amount Requested*: $998,199 (Direct Costs), *Period of Support*: 12/1/08-11/30//12.
3) *Title of Proposal*: "SHP2 as a New Drug Target for Breast Cancer", *Agency Submitted to*: ACS, *Principal Investigator*: Y. Agazie, *Funds Requested*: $222,815, *Period of Funding*: 09/01/08-09/01/14.
4) *Title of Research Proposal*: Novel Platform for the Study of Protein-Protein Interactions, *Agency Submitted to*: WVU Research Corp – PSCoR program, *Principal Investigator*: Peter Gannett, *Type of Submission*: New, *Amount Requested*: $55,000, *Period of Support*: 10/1/2009-09/30/2010. *Funding*: Pending
5) *Title of Research Proposal*: Protein-Protein Interactions Determined by Selective Protein Manipulation, *Agency Submitted to*: NIH (1R01GM081348-01), *Principal Investigator*: Peter M. Gannett, *Type of Submission*: New, *Amount Requested*: $393,055 (Direct Costs), *Period of Support*: 09/30/2009-09/29/2009, *Funding Status*: Pending
6) *Title of Proposal*: "In silico cytochrome P450 high throughput screening models for safer th"rapeutics", *Agency Submitted to*: NIH, *Role in Project*: Co-Investigator, *Funds Requested*: $767,053, *Period of Support*: 9/30/2009-9/29/2009, *Funding Status*: Pending

PUBLICATIONS

A) Journal Publications

1) Nelsen, S.F., Gannett, P.M. and Steffek, D. "Nitrosohydrazine Conformations. The Effect of Replacing C(1)-H of 2-Nitroso-2-azabicyclo[2.2.2]octane Derivatives by Nitrogen" J. Org. Chem. (1980), **45**, 3857.
2) Nelsen, S.F. and Gannett, P.M. "Conformational Interconversions in Pentaalkylhydrazine Cation Tetrafluoroborates" J. Amer. Chem. Soc. (1981), **103**, 3300.
3) Nelsen, S.F. and Gannett, P.M. "6-Methyl-1,6-diazabicyclo[6.2.2]dodecane: An Inside, Outside 6-Atom Bridged Boat Piperidine" J. Amer. Chem. Soc. (1982), **104**, 4698.
4) Nelsen, S.F., Qualy, R.J. and Gannett, P.M. "Electron Loss from 1,3,3-Trimethyl-2-azabicyclo[2.2.2]-octane Derivatives. Is Sigma Coupling Thermodynamically Important?" J. Org. Chem. (1982), **47**, 4879.
5) Nelsen, S.F. and Gannett, P.M. "The 3,3-Dimethyl-2-azabicyclo[2.2.2]octyl System as a Bredt's Rule Kinetically Stabilized Dialkylamino Group in Electron-Transfer Studies" J. Amer. Chem. Soc. (1982), **104**, 5292.
6) Nelsen, S.F., Steffek, D.J., Cunkle, G.T. and Gannett, P.M. "One Electron Oxidation of Trialkylsulfenamides" J. Amer. Chem. Soc. (1982), **104**, 6641.
7) Nelsen, S.F., Cunkle, G.T., Gannett, P.M., Ippoliti, J.T., and Qualy, R.J. "Comparison of Free Energy Changes for Nitrogen Inversion and Electron Loss for Some Amino Nitrogen Compounds" J. Amer. Chem. Soc. (1983), **105**, 3119.
8) Van Middlesworth, F., Patel, D.V., Donaubauer, J., Gannett, P.M. and Sih, C.J. "Synthesis of the Putative Biosynthetic Triene Precursor of Monensin-A" J. Amer. Chem. Soc. (1985) **107**, 2996.
9) Patel, D.V., Van Middlesworth, F., Donaubauer, J., Gannett, P.M. and Sih, C.J. "Synthesis of the proposed Penultimate Biosynthetic Triene Intermediate of Monensin-A" J. Amer. Chem. Soc. (1986), **108**, 4603.
10) Gannett, P.M., Lawson, T. and Toth, B. "Anomalous Reaction of Adenine and p-(hydroxymethyl)benzenediazonium Ion" Tetrahed. lett. (1987), **28**, 1015.
11) Gannett, P.M., Nagel, D.L., Reilly, P., Lawson, T., Sharpe, J. and Toth, B. "The Capsaicinoids: Their Separation, Synthesis, and Metabolism" J. Org. Chem. (1988), **53**, 1064.
12) Sysel, A., Gannett, P.M., Iversen, P., Imhoff-Gannett, T., Mata, J.E. Williamson, D. "U.S. Foreign Aid and Poverty Reduction" N. Eng. J. Med. (1989), **320**:1150.
13) Toth, B., Taylor, J., Mattson, B. and Gannett, P. "Tumor induction by 4-(methyl)benzenediazonium sulfate in mice" In Vivo, (1989) **3**:17-22.
14) Lawson, T. and Gannett, P. "The Mutagenicity of Capsaicin and Dihydrocapsaicin in V79 Cells" Cancer Lett. (1989), **48**:109-113.
15) Toth, B., Patil, K., Taylor, J., Stessman, C., and Gannett, P. "Cancer Induction in Mice by 4-Hydroxybenzenediazonium Sulfate of the *Agaricus Xanthodermus* Mushroom" In Vivo (1989) **3**:301-306.
16) Toth, B., Taylor, J., Mattson, B., and Gannett, P. "Tumor Induction by 4-(Methyl)Benzenediazonium Sulfate in Mice" In Vivo (1989) **3**:17-22.
17) Gannett, P.M., Iversen, P., and Lawson, T. "Inhibition of Cytochrome P-450IIE1 by Dihydrocapsaicin" Bioorg. Chem. (1990) **18**:185-198.
18) Toth, B. and Gannett, P. "Carcinogenesis Study in Mice by 3-Methylbutanal Methylformylhydrazone of *Gyromitra Esculenta*" In Vivo (1990) **4**:283-288.
19) Gannett, P.M., Lawson, T., and Toth, B. "Chemical Oxidation and Metabolism of N-Methyl-N-formylhydrazine. Evidence for Diazenium and Radical Intermediates" Fd. Chem. Tox., (1991) **29**:49-56.
20) Mirvish, S.S., Gannett, P., Babcook, D.M., Williamson, D., and Weisenburger, D. "Synthesis and Some Properties of N-Nitrosoatrazine" J. Agric. Food Chem. (1991) **39**:1205-1210.
21) Toth, B., Taylor, J., and Gannett, P., "Tumor Induction with Hexanal Methylformylhydrazone of *Gyromitra Esculenta*" Mycopathologia, (1991) **115**, 65-71.
22) Gannett, P.M., Dalal, N.S., Shi, X., and Toth, B. "8-Hydroxy-2'-deoxyguanosine Formation During the Catalytic Oxidation of Hydrazines in the Presence of 2'-Deoxyguanosine" Chem.-Biol. Interact. (1991) **80**:57-72.
23) Shi, X., Sun, X., Gannett, P.M., and Dalal, N.S. "Deferoxamine Inhibits Cr(V)-mediated ·OH and Organic

Radical Generation from H_2O_2 and Hydroperoxides, and the Related DNA Damage: ESR and HPLC Evidence" Arch. Biochem. Biophys. (1992) **293**:281-286.

24) Toth, B. and Gannett, P., "Carcinogenicity of Lifelong Administration of Capsaicin of Hot Pepper in Mice", In Vivo (1992) **6**:59-64.
25) Toth, B., Patil, K., Pyysalo, H., Stessman, C., and Gannett, P. "Cancer Induction in Mice by Feeding the Raw False Morel Mushroom *Gyromitra Esculenta*" Cancer Res. (1992) **52**:2279-2284.
26) Toth, B., Gannett, P., Rogan, E., and Williamson, J. "Bacterial Mutagenicity of Extracts of the Baked and Raw *Agaricus bisporus* Mushroom" In Vivo (1992) **6**:487-490.
27) Gannett, P.M. and Sura, T.P. "An Improved Synthesis of 8-Bromo-2'-deoxyguanosine" Syn. Commun. (1993) **23**:1611-1615.
28) Gannett, P.M. and Sura, T.P. "Base-pairs of 8-Oxoguanosine with 2'-Deoxyadenosine, 2'-Deoxycytosine, 2'-Deoxyguanosine, and Thymidine" Chem. Res. Tox. (1993), **6**:690-700.
29) Lawson, T.A. and Gannett, P. "DNA Alkylation and Mutagenicity of Related Hydroxypropylating and Methylating Agents in V79 Cells" Teratogenesis, Carcinogenesis and Mutagenesis (1993) **13**:269-275.
30) Toth, B. and Gannett, P. "*Agaricus Bisporus:* An Assessment of its Carcinogenic Potency" Mycopathologic (1993) **124**:73-77.
31) Ding, M., Gannett, P. M. and Shi, X. "One-electron Reduction of Vanadate by Ascorbate and Related Free Radical Generation at Physiological pH" Journal of Inorganic Biochemistry, (1994) **55**:101-112.
32) Liang,G., Gannett, P.M., Shi, X., Zhang, Y., Chen, F.-X., and Gold, B., "DNA Sequencing with the Hydroperoxide of Tetrahydrofuran", J. Am. Chem. Soc. (1994) **116**:1131-1132.
33) Shi, X., Dalal, N.S., Gannett, P.M. "Chromate-mediated Free Radical Generation from Cysteine, Penicillamine, Hydrogen Peroxide and Lipid Hydroperoxides" Biochim. Biophys. Acta (1994) **1226**:65-72.
34) Shi, X., Rojanasakul, Y., Gannett, P.M., Liu, K., Mao, Y., Daniel, L.N., Ahmed, N. and Saffiotti, U. "Generation of Thiyl and Ascorbyl Radicals in the Reaction of Peroxynitrite with Thiols and Ascorbate at Physiological pH" J. Inorg. Biochem. (1994) **56**:77-86.
35) Shi, X., Mao, Y., Knapton, A.D., Rojanasakul,Y., Gannett, P., Dalal, N., Liu,K. "Reaction of Cr(VI) with ascorbate and hydrogen peroxide generates hydroxyl radicals and causes DNA damage: role of Cr(IV)-mediated Fenton-like reaction", Carcinogenesis (1994), **15**:2475-2478.
36) Toth, B. and Gannett, P. "*Gyromitra Esculenta* Mushroom: A Comparative Assessment of its Carcinogenic Potency" In Vivo (1994) **8**:999-102.
37) Liang, G., Gannett, P. and Gold, B. "The Use of 2-Hydroperoxytetrahydrofuran as a Reagent to Sequence Cytosine and to Probe Non-Watson-Crick DNA Structures", Nucl. Acids Res. (1995), **23**:713-719.
38) Lawson, T., Gannett, P.M., Yau, W.M., Dalal, N.S., and Toth, B. "Different Patterns of Mutagenicity of Arenediazonium Ions in V79 Cells and *Salmonella Typhimurium* TA 102: Evidence for Different Mechanisms of Action", J. Agric. Fd. Chem. (1995) **43**:2627-2635.
39) Tryfiates, G.P., Gannett, P., Bishop, R.E., Ammons, J.R. and Arbogast, J.G., "Vitamine B_6 and Cancer: Synthesis and Occurrence of Adenosine-N6-Diethylthioether-N-pyridoximine-5'-Phosphate, A Circulating Human Tumor Marker" Cancer Res. (1996) **56**:3670-3677.
40) Gannett, P.M., Lawson, T., Miller, M., Thakkar, D.D., Lord, J.W., Yau, W.-M. and Toth, B., 8-Arylguanine Adducts from Arenediazonium Ions and DNA, Chemico-Biological Interactions (1996) **101**:149-164.
41) Wang, K., Wang, Z. Tarli, A. and Gannett, P.M. "Cascade Radical Cyclizations via Biradicals generated from (Z)-1,2,4-Heptatrien-6-ynes" J. Am. Chem. Soc. (1996) **118:**10783-10791.
42) Fodor, G., Gannett, P. M., and Sura, T. "An NMR Study of the Configuration of the Two Racemates of 2-Methyl-2,5-dimethoxy-2,5-dihydrofuran" Models in Chemistry, (1996) **133**:449-459.
43) Tryfiates, G.P. and Gannett, P.M. "Vitamine B6 and Cancer: A Novel Vitamin Conjugate Marker in Blood for Human Cancer Detection" Recent Res. Devel. Nutrition, (1996) **1**:145-150.
44) Toth, B., Erickson, J., Gannett, P.M., Patil, K. "Carcinogenesis by the Cultivated Baked *Agaricus bisporus* Mushroom in Mice", Oncology Reports. (1997), **4**:931-936.
45) Toth, B., Erickson, J. and Gannett, P. "Lack of Carcinogenesis by the Baked Mushroom *Agaricus bisporus* in Mice: Different Feeding Regimen" In Vivo (1997) **11**:227-232.
46) Gannett, P.M., Shi, X., Lawson, T., Kolar, C., Toth, B. "Aryl Radical Formation During the Metabolism of Arylhydrazines by Microsomes" Chem. Res. Tox. (1997) **10**:1372-1377.
47) Toth, B., Gannett, P.M., Visek, W.J., Patil, K. "Carcinogenesis studies with the lyophilized mushroom *Agaricus bisporus* in mice" In Vivo, (1998), **12**:239-244.
48) Shi, X., Leonard, S.S., Liu, K.J., Zang, L., Gannett, P.M., Rojanasakul, Y., Castranova, V. and Vallyathan, V. "Cr(III)-mediated hydroxyl radical generation via Haber-Weiss cycle", J. Inorg. Biochem. (1998), **69**:263-268.
49) Toth, B., Patil,K., Erickson,J. and Gannett, P. "Carcinogenesis by Benzenediazonium Sulfate in Mice" In Vivo (1998) **12**:379-382.

50) Leonard, S., Gannett, P.M., Rojanasakul, Y., Schwegler-Berry, D., Castranova, V., Vallyathan, V., Shi, X. "Cobalt-mediated generation of reactive oxygen species and its possible mechanism" J. Inorg. Biochem. (1998), **70**:239-244.
51) Gannett, P.M., Powell, J., Rao, R., Shi, X., Lawson, T., Kolar, C., and Toth, B. C^8-Aryladenine formation in calf thymus DNA from arenediazonium ions. (1999) Chem. Res. Toxicol. **12**:297-304.
52) Toth, B., Patil,K., Erickson, J., Gannett, P. "Cancer Induction Studies Using Different Administrations of Benzenediazonium Sulfate in Mice" (1999) In Vivo **13**:125-128.
53) Makarov,S.V., Mundoma, C., Svarovsky, S.A., Shi, X., Gannett, P.M., Simoyi, R.H., Reactive Oxygen Species in the Aerobic Decomposition of Sodium Hydroxymethanesulfinate. (1999) Arch. Biochem. Biophys. **367**: 289-296.
54) Abate,M.A., Stout, P.J., Stamatakis, M.K., Gannett, P.M., Nardi, A.H., Dunsworth, T.S. "Development and Evaluation of Computerized Problem-Based Learning Cases Emphasizing Basic Sciences Concepts" (2000) Amer. J. Pharmaceut. Ed. **64**:74-82.
55) Gannett, P.M., Shi, X., Ye, J., Powell, J., Darian, E., Daft, J. "Activation of AP-1 through the MAP Kinase Pathway: A Potential Mechanism of the Carcinogenic Effect of Arenediazonium Ions" (2000) Chem. Res. Toxicol., **13**:1020-1027.
56) Smith C, Stamm SC, Riggs JE, Stauber W, Harsh V, Gannett PM, Hobbs G, Miller MR Ethanol-Mediated CYP1A1/2 Induction in Rat Skeletal Muscle Tissue, (2000) Exp. Mol. Pathol, **69**:223-232.
57) Powell, J.H., Johnson, II, E.M., and Gannett, P.M. "Improvement of a Critical Intermediate Step in the Synthesis of a Nitroxide-Based Spin-Labeled Deoxythymidine Analog", (2000) Molecules, **5**:1244-1250.
58) Gannett, P.M., Darian, E., Powell, J.H. and Johnson, III, E.M. "A Short Procedure for Synthesis of 4-ethynyl-2,2,6,6-tetramethyl-3,4-dehydro-piperidine-1-oxyl Nitroxide" (2001) Syn. Commun. **31**:2137-2141.
59) Gannett, P.M., Hailu, S., Daft, J., James, D., Rybeck, B., Tracy, T.S. "In Vitro Reaction of Formaldehyde with Fenfluramine: Conversion to N-Methyl Fenfluramine" (2001) J. Anal. Toxicol. **25**:88-92.
60) Tracy, T.S., Rybeck, B.F., James, D.G., Knopp, J.B., Gannett, P.M. "Stability of Benzodiazepines in Formaldehyde Solutions" (2001) J. Anal. Toxicol. **25**:166-173.
61) Peter M. Gannett, Ph.D., Jonathan R. Daft, B.S., Devona James, M.S.,Blanche Rybeck, B.S., James B. Knopp, B.S., and Timothy S. Tracy, Ph.D. "In Vitro Reaction of Barbiturates with Formaldehyde" (2001) J. Analytical Toxicology, **25**:443-449.
62) Schenck, F.J., Callery, P., Gannett, P.M., Daft, J.R. and Lehotay, S.J., "How Dry is Dry? Removal of Water from Pesticide Extracts from Foods After Salting Out. (2001) FDA Laboratory Information Bulletin #4264.
63) Powell, J.H., and Gannett, P.M. "Mechanisms of Carcinogenicity of Aryl Hydrazines, Aryl Hydrazides, and Arenediazonium Ions." (2002) J. Environ. Pathol. Toxicol. Oncol. **21**:1-32.
64) Gannett, P.M., Powell, J.H., Johnson, III, E.M., Darian, E., Dalal, N., Norton, M., Budil, D. "Solid Phase DNA Annealing Characterization by EPR Spectroscopy"(2002) Tetrahed. Lett.,**43**:1931-34.
65) Schenck, F.J., Callery, P.S., Gannett, P.M., Daft, J., Lehotay, S.J. "How Dry is dry? Removal of Water from Pesticide Extracts of Foods After Salting Out", (2002) J AOAC International, **85**:1177-1180.
66) Gannett, P.M., Darian, E., Powell, J.H., Johnson, III, E.M., Mundoma, C., Greenbaum, N.L., Ramsey, C.M., Dalal, N.S., Budil, D.E. "Probing Triplex Formation by EPR Spectroscopy Using a Newly Synthesized Spin Label for Oligonucleotides", (2002) Nucl. Acids Res. **30**:5328-5337.
67) Gannett, P.M., Johnson, II, E.M., Grimes, M.A., Myers, A.L., Deavers, III, R.E., Tracy, T.S. (2003) "Synthesis of Deuterated 4,4'-Diaminodiphenylsulfone (Dapsone) and Related Analogs" J. Labelled Compds Radiopharmaceut, **46**:107-114.
68) Taylor, M.D., Antonini, J.M., Roberts, J.R., Leonard, S.S., Shi, X., Gannett, P.M., Hubbs, A.F., Reasor, M.J. "Intratracheal Amiodarone Administration to F344 Rats Directly Damages Lung Airway and Parenchymal Cells", (2003) Am. J. Resp. Cell and Mol. Biol., **188**:92-103.
69) Gannett, P.M., Darian, E., van Tol, H., Dalal, N.S., "High Field Aqueous EPR of Spin Adducts and Oligonucleotides", (2003) NHMFL 2002 Annual Research Review, Chemistry, 68.
70) Western, E.C., Daft, J.R., Johnson, II, E.M. and Gannett, P.M., and Shaughnessy, K.H. Efficient One-Step Suzuki Arylation of Unprotected Halonucleosides, Using Water-Soluble Palladium Catalysts. (2003) J. Org. Chem. **68**:6767-6774.
71) Gannett, P.M., Heavner, S., Daft, J.R., Shaughnessy, K., Epperson, J.D., Greenbaum, N.L. "Synthesis, Properties, and NMR Studies of a C8-Phenylguanine Modified Oligonucleotide that Preferentially Adopts the Z-DNA Conformation." (2003) Chem. Res. Toxicol. **16**:1385-1394.
72) Tracy, T.S., Hummel, M.A., Gannett, P.M., Aguilar, J.S. "Effector-Mediated Alteration of Substrate Orientation in Cytochrome P450 Enzymes." (2004) Biochemistry, **43**:7207-7214.
73) Darian, E. and Gannett, P.M. 'Application of Molecular Dynamics to Spin-labeled Oligonucleotides',

(2005) J. Biomolecular Structure and Dynamics, **22**:579-594.

74) Tirumalai, P.S., Gannett, P.M., Callery, P.S., Bland, T.M., Tracy, T.S. "Conversion of Methamphetamine to N-Methyl-Methamphetamine in Formalin Solutions." (2005) J. Anal. Toxicol. **29**:48-53.

75) Heavner, S. and Gannett, P.M. 'Molecular Dynamics and Free Energy Calculations of the B and Z Forms of C8-Arylguanine Modified Oligonucleotides', (2005) J. Biomolec. Struct. Dyn. **23**:203-219.

76) Hummel, M.A., Locuson, C.W., Gannett, P.M., Rock, D., Mosher, C., Rettie, A.E., Tracy, T.S. 'CYP2C9 Genotype-Dependent Effects on In Vitro Drug-Drug Interactions: Switching of Benzbromarone Effect from Inhibition to Activation in the CYP2C9.3 Variant' (2005) Molec. Pharmacol. **67**:644-651.

77) Sanga, M., Younis, I.R., Tirumalai, P.S., Bland, T.M., Banaszewska, M., Konat, G.W., Tracy, T.S., Gannett, P.M., Callery, P.S. 'Epoxidation of the Methamphetamine Pyrolysis Product, *trans*-Phenylpropene, to *trans*-Phenylpropylene Oxide by CYP Enzymes and Stereoselective Glutathione Adduct Formation', (2006) Toxicol. Appl. Pharmacol. **211**:148-156.

78) Mohler, D.L., Downs, J.R., Hurley-Predecki, A.L., Sallman, J.R., Gannett, P.M., Shi, X. 'DNA Cleavage by the Photolysis of Cyclopentadienyl Metal Complexes: Mechanistic Studies and Sequence Selectivity of Strand Scission by $CpW(CO)_3CH_3$', (2005) J. Org. Chem. **70**:9093-9102.

79) Shakleya, D.M., Kraner, J.C., Kaplan, J.A., Gannett, P.M., and Callery, P.S. (2005) 'Identification of N,N-Dimethylamphetamine Formed by Methylation of Methamphetamine in Formalin Fixed Liver Tissue by Multistage Mass Spectrometry', Forensic Sci. International, **157**:87-92.

80) Locuson, C.W., Gannett, P.M., Tracy, T.S. "Heteroactivator Effects on the Coupling and Spin State Equilibrium of CYP2C9" (2006) Arch. Biochem. Biophys. **449**:115-129.

81) Gannett, P.M., Kabulski, J., Perez, F.A., Liu, Z., Lederman, D., Locuson, C.W., Ayscue, R.R., Thomsen, N.M., Tracy, T.S. "Preparation, Characterization, and Substrate Metabolism of Gold-Immobilized Cytochrome P450 2C9" (2006) J. Amer. Chem. Soc. **128**:8374-8375.

82) Martirosyan, A., Leonard, S., Shi, X., Griffiths, B., Gannett, P.M., Strobl, J. 'Dual Roles for Reactive Oxygen Species in MCF-7 Human Mammary Tumor Cell Differentiation and Cell Death Produced by an Experimental Agent, NSC3852', (2006) J. Pharmacol. Exp. Therapeutics **317**:546-552.

83) Locuson, C.W., Gannett, P.M., Ayscue, R.R., Tracy, T.S., "Discovery of Heteroactivators of Cytochromes P450 Using Virtual Library Screening", J. Med. Chem.. **50**:1158-1165 (2007).

84) Gannett, P.M., Miller, L., Daft, J., Locuson, C., Tracy, T.S. "Synthesis of Deuterated Naproxens", J. Labelled Compds. Pharmaceut. **50**:1272-1275 (2007).

85) Gannett, P.M., Kabulski, J., Wollenberg, L., Gu, J., Li, D., Lederman, D., Tracy, T.S. "Cytochrome P450-Gold Nanobiochip Platform for Basic Science Research and Practical Applications", Proceedings of the 15th International Conference on Cytochromes P450, Bled, Slovenia, Jun 17-21, 2007.

86) Hummel, M.A., Gannett, P.M., Aguilar, J., and Tracy, T.S. "Substrate proton to heme distances in CYP2C9 allelic variants and alterations by the heterotropic activator, dapsone. Arch. Biochem. Biophys. **475** 175-183 (2008).

87) Wang, H., Cheatham, T.E., III, Gannett, P.M., Lewis, J.P. "Dynamics of A-B Transition of the DNA Double Helices", Soft Matter, **5** 685-690 (2009) DOI:10.1039/B800462E

88) Yang, M., Kabulski, J.L., Wollenberg, L., Chen, X., Tracy, T.S., Gannett, P.M., Wu, N.N. "Electrocatalytic Drug Metabolism by Cytochrome P450 Enzyme Bonded to a Self-assembled Monolayer Modified Electrode", (2009) Drug Metab. Disposition. **37**:892-899.

B) Journal Articles Submitted, Accepted, or In Press

1) Vongsutilers, V., Phillips, D.J., Shaughnessy, K.H., Thomsen, N.M., Lewis, J.P., Gannett, P.M., "The Effect of C8-Arylguanine Adducts on the B/Z-DNA Equilibriuim and the Potential Role of Z-DNA in Aryl Hydrazine Carcinogenesis, Chem. Res. Toxicol. Submitted 8/12/2008.

2) Li, D., Gannett, P.M., and Lederman, D., "Myoglobin-based Single-Electron Transistors: Single electron transistor behavior was observed in electronic devices based on single myoglobin proteins.' (2008) Science, Submitted 9/08.

3) Glump, D.A., Yu, J.Y., Cho, Y., Gao, R., Jett, J., Zot, H., Clump, A.G., Shockey, B.S., Gannett, P.M., Coad, J.E., Shurina, R., Figg, W.D., Reed, E., and Flynn, D., "A single nucleotide polymorphism in AFAP-110 enables it to efficiently activate cSrc" (2008) Cancer Cell, Submitted 9/08.

C) Book Chapters

1) Callery, P.S. and Gannett, P.M. "Cancer and Cancer Chemotherapy" In *Principles of Medicinal*

Chemistry, 5th edition, Foye, W.O., Lemke, T.L., Williams, D.A., eds, Williams and Wilkins, Philadelphia, PA, Chap 38, pp 924-951.

D) Abstracts

1) Lawson, T., Gannett, P. and Toth, B. "DNA-Adduct Formation by an Ingredient of *Agaricus Bisporus* (**AB**) and Carcinogenesis by the Mushroom **AB**" Fed. Proc. (1986) **45**:A3151.
2) Gannett, P. and Lawson, T. "Involvement of Oxygen Radicals in Nitrosamine Activation" The Nebraska Medical Journal (1987) 72 (2), 58.
3) Lawson, T., Sharp, J. and Gannett, P. "The Metabolism of Capsaicin: A Putative Carcinogen Derived from Red Pepper" The Nebraska Medical Journal (1987), 72 (2), 63.
4) Lawson, T., Gannett, P.M., Toth, B. "Metabolism of Capsaicin: A Component of Hot Red Peppers and a Putative Carcinogen" Fed. Proc. (1987) **46**:A2497.
5) Gannett, P., Lawson, T. and Toth, B. "Interactions of Diazonium Ions with Adenine and Tumor Induction with an Ingredient of the Cultivated Mushroom *Agaricus bisporus*" Proc. Am. Assoc. Cancer Res. (1987) **28**:A364.
6) Toth, B., Gannett, P. and Lawson, T. "Hydrazines and Diazonium Ions of Mushroom Origin and Cancer" The FASEB J. (1987) **1**:A****.
7) Gannett, P.M., Nagel, D. and Toth, B. "Isolation, Synthesis, and Metabolism of the Capsaicinoids" 1987 Spring meeting of the American Chemical Society, Denver, CO., Organic Division Abstracts # 64.
8) Toth, B., Gannett, P. and Lawson, T. "Hydrazines and Diazonium ions of Mushroom Origin and Cancer" 9th Meeting of Europ. Assoc. Cancer Res., Helsinki, Finland, Meeting Abstracts, 119, 1987.
9) Gannett, P.M., Lawson, T., Sharpe, J., Reilly, P. and Toth, B. "Metabolism and the Putative Ultimate Carcinogen Derived from Capsaicin" The Faseb J. (1988) **2**:A4989.
10) Gannett, P.M., and Lawson T. "Synthesis and Mutagenicity of Conformationally Frozen E- and Z-Nitrosamines" Advances in the Biology and Chemistry of N-Nitroso and Related Compounds, Omaha, NE, May 19-23, 1988.
11) Lawson, T. and Gannett, P. "The Reaction of Benzene Diazonium Ions with DNA In Vitro" Advances in the Biology and Chemistry of N-Nitroso and Related Compounds, Omaha, NE May 19-23, 1988.
12) Lawson, T., Gannett, P. and Toth, B. "Chemical and Carcinogenesis Studies with the Diazonium Ions Related to the Cultivated Mushroom Agaricus bisporus (AB)" Proc. Am. Assoc. Cancer Res. (1988) **29**:A375.
13) Gannett, P.M., Nagel, D., Tempero, M., Rennard, S., Armitage, J.O. "Early Detection of Cancer by NMR Analysis of Blood Plasma" Proc. Am. Assoc. Cancer Res. (1988) **29**:A690.
14) Gannett, P.M., Reilly, P., Sharpe, J. and Toth, B. "An Electrochemical Model for the Metabolism of Capsaicin" 195th American Chemical Society Meeting; Third Chemical Congress of North America, Toronto, Canada, June 5-10, 1988.
15) Toth,B. and Gannett, P. "*Agaricus Bisporus* Mushroom and its Toxins: Biological Actions and Chemistry" II Intern. Conf. of Anticancer Res., Saronis, Greece, Abstracts, 1067, 1988.
16) Gannett, P.M., Lawson, T., and Toth, B. "Chemical and Enzymatic Oxidation of Hydrazines Derived from the Edible Mushroom *Gyromitra Esculenta*" The FASEB J. (1989) **3**:A4052.
17) Gannett, P.M., Nagel, D.L., Tempero, M.A., Rennard, S.I., Armitage, J.O. and Kolar, C. "Early Detection of Cancer by NMR Analysis of Blood Plasma" Third Nebraska Symposium on Cancer and Smoking-Related Diseases, Omaha, NE, March 30-31, 1989, Abstract # 8.
18) Gannett, P.M., Lawson, T. and Toth, B. "Intermediates and Products from the Chemical and Biological Oxidation of Methyl Formyl Hydrazine" 197th Annual meeting of the American Chemical Society, Dallas, TX, April 9-14, 1989, Abstract # 21.
19) Toth, B., Taylor, J., Mattson, B., Gannett, P.M., and Lawson, T. "Carcinogenesis Studies with Naturally Occurring and Synthetic Diazonium Salts" Proc. Am. Assoc. Cancer Res. (1989) **30**:A530.
20) Toth, B. and Gannett, P.M. "Biological and Chemical Studies with Hydrazine Ingredients of Several Mushroom Species" European Association for Cancer Research Tenth Biennial Mtg., Galway, Ireland, September 10-13, 1989.
21) Toth, B. and Gannett, P.M. "Carcinogenicity and Chemistry Studies with Hydrazones of the *Gyromitra Esculenta* (GE)" The FASEB J. (1990) **4**:A1357.
22) Toth, B. and Gannett, P. "Carcinogenesis by feeding the raw *Gyromitra esculenta* (GE) mushroom in mice" Proc. Am. Assoc. Cancer Res. (1990) **31**:A605.
23) Gannett, P.M. and Toth, B. "Hydroxylation of Guanosine by Hydrazines Catalyzed by Copper" 200th Annual mtg of the American Chemical Society, Washington, D.C., August 25-31, 1990, Abstract # 325.

24) Gannett, P.M. and Toth, B. "Heat Sensitivity of Chemicals of the *Agaricus bisporus* (AB) Mushroom" Proc. Am. Assoc. Cancer Res. (1991) **32**:A694.
25) Gannett, P.M., Toth, B. and Nunnally, J. "Mutagenesis by Extracts of Baked and Unbaked Cultivated Mushroom *Agaricus Bisporus* (AB)" FASEB J. (1991) **5**:A1571.
26) Toth, B. and Gannett, P. "Tumor Induction with Capsaicin of Hot Pepper in Mice", The FASEB J. (1992) **6**:A1393.
27) Gannett, P.M. and Sura, T.P. "Base-pairing of 8-Oxoguanosine with 2'-Deoxyadenosine" 203rd Meeting of the American Chemical Society, Medicinal Chemistry Division, Abstract # 21, San Francisco, CA, April 5-10, 1992.
28) Gannett, P.M., Sura, T.P., and Toth, B. "Base-pairing Properties of 8-Oxo-2'-deoxyguanosine (8-Oxo-dG)" Proc. Am. Assoc. Cancer Res. (1992) **33**:A856.
29) Gannett, P.M., Sura, T.P. "Base-pairing of 8-Oxoguanosine with Thymidine" 204rd Meeting of the American Chemical Society, Organic Division, Abstract # 310, Washington, D.C., August 23-28, 1992.
30) Gannett, P.M., Sura, T.P., and Thakkar, D.D. "Base-pairing of 8-Oxoguanosine with Adenosine and Thymidine" 204rd Meeting of the American Chemical Society, Organic Chemistry Division, Abstract # 311, Washington, D.C., August 23-28, 1992.
31) Toth, B. and Gannett, B. "Four Mushroom Families: Carcinogenic Hydrazines and Their Mode of Action" 4th International Conference on Anticancer Research, 1992, Crete, Greece.
32) Ammons, J., Gannett, P.M., and Tryfiates, G. "The Synthesis of Adenosine-N^6-diethylthioether-N'-pyridoximine-5'-phosphate (**A**), a Potential Biomarker for Cancer", 14th Annual Undergraduate Research Seminar, Morgantown, WV, Oct 9, 1992.
33) Toth, B., Gannett, P. and Nagel, D. "A comparative assessment of the carcinogenic potencies of the *Gyromitra esculenta* (GE) mushroom and its six hydrazine ingredients" The FASEB J. **7**:A716 (1993).
34) Toth, B., Gannett, P. and Nagel, D. "An assessment of the cancer-inducing potencies of the cultivated mushroom *Agaricus bisporus* (AB) and its four ingredients" Cancer Res. **34**:A116 (1993).
35) Thakkar, D.D., Gannett, P.M., and Sura, T.P. "The Structure and Stability of dC:dG:dN Nucleoside Triplets by NMR" 25th Central Regional Meeting, American Chemical Society, Pittsburgh, PA, October 4-6, 1993.
36) Yau, W.-M. and Gannett, P.M. "An Improved Synthesis of 8-Hydroxy-2'-deoxyguanosine and its 3'-phosphoramidite-5'dimethoxytrityl Ether" 25th Central Regional Meeting, American Chemical Society, Pittsburgh, PA, October 4-6, 1993.
37) Gannett, P.M., Shi, X., Liang, G., Zhang, Y., Chen, F.-X., Gold, B. "DMPO Trapped Radicals Derived from Tetrhydrofuran Hydroperoxide and Their Reaction with Cytosine in DNA" 4th International Symposium on Spin Trapping and Organic EPR Spectroscopy with Applications in Chemistry, Biology and Medicine, Oklahoma City, OK, October 23-27, 1993.
38) Shi, X., Gannett, P.M. "Generation of Free Radicals and Reactive Chromium Intermediates in the Reaction of Cr(VI) with Ascorbate and Hydrogen Peroxide" 4th International Symposium on Spin Trapping and Organic EPR Spectroscopy with Applications in Chemistry, Biology and Medicine, Oklahoma City, OK, October 23-27, 1993.
39) Liang, G., Gannett, P., Shi, X., Zhang, Y., and Gold, B. "Autooxidation of Tetrahydrofuran: Formation of a THF-Hydroperoxide, a Cytosine-Specific DNA-Cleaving Agent" 28th ACS Midwest Regional Meeting, American Chemical Society, Columbia, MO, November 10-12, 1993.
40) Gannett, P.M., Toth, B., Lawson, T. "Arylradicals from aryldiazonium ions in the mushroom *Agaricus bisporus*" 85th Annual AACR meeting, San Francisco, CA, April 10-13, 1994.
41) Gannett, P.M., Toth, B., Lawson, T. "Arylhydrazine-induced DNA Damage and Mutagenicity", The FASEB J. (1994) **8**:A406.
42) Toth, B., Lawson, T., and Gannett, P. "Edible Mushroom *Agaricus Bisporus*: Carcinogenesis and Chemistry, XIII European Association for Cancer Research meeting, Berlin, Germany, Programme and Abstract Book, 159, (1994).
43) Gannett, P.M., Lawson, T., Toth,B. "C-8-Arylation of guanine in DNA from aryl diazonium ions found in the mushroom *Agaricus bisoporus*", 86th Annual AACR meeting, Toronto, Ontario, Canada, 3/18-3/22, Proc. Am. Assoc. Cancer Res. (1995) **36**:A796.
44) Lawson, T., Gannett, P.M., Toth, B. and Thakkar, D. "Aryl Radical DNA Damage From Aryl Diazonium Ions Found in the Mushroom *Agaricus bisporus*", FASEB meeting, The FASEB J. (1995) **9**:A842.
45) Gannett, P.M. "Base Pairing and Stacking Properties of 8-Oxoguanine", NIH conference and workshop one the AREA grant program, April 9-10, 1995, Ball State University, Indianapolis, IN.
46) Toth, B., Gannett, P.M., Lawson, T., and Erickson, J. "Baked and Lyophilized *Agaricus Bisporus* (**AB**) Mushroom Carcinogenesis Studies. Mode of Action of Some Mushroom Chemicals, 5th International Conference of Anticancer Research, Corfu, Greece, 8/95, Abstract #1819.

47) Thakkar, D.D. and Gannett, P.M. "Stability Studies of 8-Oxoadenine Based Triplex DNA, Targeted to Block Gene Expression" Pharmceut. Res. (1995) **12**(S):81.
48) Thakkar, D.D. and Gannett, P.M. "Radical Based DNA Damage Produced by Arene Diazonium Compounds Found in *Agaricus bisporus*", Pharmceut. Res. (1995) **12**(S):90.
49) Gannett, P.M. "Multidisciplinary Collaboration in Health Sciences Research: Why Bother?" Collaboratories: Technological Approaches for Geographical Information, Molecular Modeling and Educational Practices, West Virginia University, Mar 29-30, 1996.
50) Toth, B. and Gannett, P., Carcinogenesis Studies with the Baked Mushroom *Agaricus bisporus*, Proc. Am. Assoc. Cancer Res. (1996) **37**:A749.
51) Gannett, P.M., Lawson, T., Lord, J.W. and Toth, B., Role of aryl radicals in the formation of C8-aryl guanine adducts by aryl diazonium ions, Proc. Am. Assoc. Cancer Res. (1996) **37**:A815.
52) Toth, B., Gannett, P. and Lawson, T. "Cancer Induction Studies with the Lyophilized Agaricus bisporus (AB) Mushroom", The FASEB J. (1996) **10**:A1351.
53) Toth, B., Gannett, P., Lawson, T. "*Agaricus bisporus* (AB) Mushroom Toxins: Carcinogenesis and Their Mode of Action", Proc. Abs., Intern. J. Oncol., (1996) **9**(S):856.
54) ASBMB/ASIP/AAI Joint meeting abstract "Cancer Induction Studies with the Lyophilized *Agaricus Bisporus* (AB) Mushroom" Toth, B., Gannett, P. and Lawson, T., The FASEB J. (1996) **10**:A1351.
55) Toth, B., Gannett, P., Lawson, T. "*Agaricus bisporus* (AB) Mushroom Toxins: Carcinogenesis and their Mode of Action", Proc. Abs., Intern J. Oncol., (1996) **9**(S):856.
56) Thakkar, D.D. and Gannett, P.M. "The Delivery, Development, and Targeting of Novel DNA Forming Oligonucleotides to Inhibit Ha-*ras* Oncogene Expression", Pharm. Res. (1996) **13** (Suppl.) A:PDD 7614 (p. S-386).
57) Toth, B., Erickson, J., Gannett, P., Lawson, T. "Baked *Agaricus bisporus* (**AB**) Mushroom Carcinogenesis in Mice: Another Experimental Approach" FASEB J. (1997) **11**:A577
58) Toth, B., Gannett, P., Lawson, T., and Erickson, J. "Baked *Agaricus bisporus* mushroom carcinogenesis study in Swiss mice" (1997) Proc. Amer. Assoc. Cancer Res. **38**:A3108
59) Gannett, P., Yau, W.M., Lawson, T., Lord, J., Kolar, C., and Toth, B. "Formation of C-8-aryladenine adducts from arenediazonium ions and DNA" (1997) Proc. Amer. Assoc. Cancer Res. **38**:A2233
60) Peter M. Gannett, Xiangling Shi, Terence Lawson, Jim Lord, C. Kolar, James Erickson, and Bela Toth, "The formation of C8-Arylpurine adducts in DNA from arenediazonium ions: Mechanism and Genotoxicity.", First Virtual Congress about Pharmacy, University of Granada, Spain, 1/98-12/98.
61) Toth, B., Gannett, P., Lawson, T., Visck, W.J., and Patil, K. "Carcinogenic activities of lyophilized *Agaricus bisporus* (AB) mushroom in mice. Proc. Am. Assoc. Cancer Res. (1998) **39**:331.
62) Powell, J.H., Duffy, J.W., Gannett, P.M., Lawson, T., Kolar, C. and Toth, B. Aryltriazene formation and depurination of DNA caused by arenediazonium ions. Proc. Am. Assoc. Cancer Res. (1998) **39**:23.
63) Toth, B. and Gannett, P. "Cancer Induction by Benzenediazonium Sulfate (BD) in Mice", The FASEB J. (1998) 12:A812.
64) Toth, B., Gannett, P.M., Lawson, T. "Agaricus Bisporus (AB) Mushroom Feeding Studies: Carcinogenesis and Mode of Action of Mushroom Hydrazines", VI. Intern. Conf. Anticancer Research, Kallithea, Greece, Abstracts, 18:4962, 1998.
65) Gannett, P.M. and Powell,J., "AP-1 Induction by Arenediazonium Ions and Aryl Radicals, March 19, 1999, Morgantown, WV
66) Powell,J. and Gannett, P.M. , "Synthesis and analysis of a nitroxide-based spin probe-labeled triplex forming oligonucleotide", March 19, 1999, Morgantown, WV.
67) Toth, B., Erickson, J., Gannett, P., Lawson, T. "Additional cancer induction studies with benzenediazonium sulfate (BD) (1999) Proc. Am. Assoc. Cancer Res. **40**, 347.
68) Toth, B., Erikson, J., Gannett, P., Lawson, T. "Feeding the ram, baked and lyophilized *Agaricus bisporus* (AB) mushrooms: Evaluation of the results of carcinogenesis. (1999) The FASEB J. **13**, A187.
69) Powell, J. and Gannett, P.M. "Synthesis and Analysis of a Nitroxide-based Spin Probe-labeled Triplex-forming Oligonucleotide" 32nd Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Buffalo, NY, July 11-13, 1999.
70) Darian, E. and Gannett, P.M. Molecular Dynamics Simulation Study of Nitroxide Spin-labeled DNAs, 32nd Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Buffalo, NY, July 11-13, 1999.
71) Daft, J.R., Gannett, P.M., James, D.G., Rybeck, B.F., Tracy, T.S. "Drug Reactions in the Presence of Formaldehyde", (1999) ISSX Proceedings A:431.
72) Darian, E. and Gannett, P.M. "Molecular Dynamics Simulation Study of Nitroxide Spin-Labeled DNAs" (1999) ISSX Proceedings A:82.
73) Powell, J. and Gannett, P.M. "Synthesis and Analysis of a Nitroxide-based Spin Probe-labeled

Triplex-forming Oligonucleotide" (1999) ISSX Proceedings A:429.

74) Gannett, P.M., Shi, X., Ye, J., Zhang, Y., and Toth, B. "AP-1 Induction by Arenediazonium ions and Aryl Radicals *In Vitro* And *In Vivo*" (1999) ISSX Proceedings A:144.
75) Johnson, II, E.M., Powell, J.H., Gannett, P.M. "Synthesis of a Nitroxide-based Spin Probe-labeled thymine Analog used to Analyze the Formation of Triplex DNA", (1999) 21st Pharmacy Student Research conference - Eastern States, Paper 3, Morgantown, WV.
76) Toth, B. and Gannett, P. "Carcinogenesis Studies by Various Administrations of benzenediazonium sulfate in mice" (2000) Proc. Am. Assoc. Cancer Res., **41**:836-837.
77) Gannett, P.M., Powell, J., Daft, J., Shi, X., Ye, J., and Toth, B. "Aryl radicals from arenediazonium ions induce AP-1 *in vitro* and *in vivo*" (2000) The FASEB J. **14**:A447.
78) Gannett, P.M., Ye, J., Ding, M., Shi, X., Powell, J.H., Darian, E., Daft, J. "ESR Evidence for the Mechanism of AP-1 Induction by Arenediazonium Ions", WVU Research Day 2000, A62.
79) Darian, E., Gannett, P.M. "Molecular Dynamics Simulation Study of the Stability and Conformation of Spin-probe Labeled DNAs" WVU Research Day 2000, A65.
80) Heavner, S., Daft, J., Darian, E., and Gannett, P.M. "Conformational Affects Induced by C8-Arylation of Guanine in DNA as Determined by Molecular Modeling and NMR." WVU Research Day 2000, A61.
81) Powell, J.H., Gannett, P.M., Ye, J., Ding, M., Shi, X., Darian, E., and Daft, J. "Mechanism of AP-1 Induction by Arenediazonium Ions", 33rd Annual Mid-Atlantic Graduate Student Symposium, Pittsburgh, PA, July 9-11, 2000.
82) Schenck, F.J., Callery, P.S., Gannett, P.M., Daft, J.R. "How Dry is Dry? Isolation of pesticide Residues from Foods by Salting Out", The 114th AOAC International Meeting and Exposition Sept. 10-14, 2000, Philadelphia, PA.
83) Johnson, II, E.M., Powell, J.H., Darian, E., and Gannett, P.M. "Developing and Refining the Synthesis of a Nitroxide-based Spin Probe-labeled Thymine Analog Used to Study Novel Drug Therapy Techniques" Merck Undergraduate Symposium, Morgantown, WV, Oct 14-15, 2000.
84) Toth, B. and Gannett, P. "The Assessment of the Use and Production of Synthetic Carcinogenic Hydrazines and Related Chemicals" (2001) The FASEB J. **15**:A584.
85) Toth, B. and Gannett, P.M. "Natural Occurrences of Some Carcinogenic Hydrazines and Related Chemicals in the Agaricaceae Mushroom Family", (2001) Proc. Am. Assoc. Cancer Res. **42**:605.
86) Darian, E., Johnson, II, E.M., Powell, J.H. and Gannett, P.M. "Improved and Short Procedure for Synthesis of Nitroxide Based Spin-Labeled Phosphoramidite", 34th Graduate Student Symposium in Medicinal Chemistry, 6/28/01-6/30/01, Columbus, OH.
87) Daft, J., Gannett, P.M., Ye, J., Ding, M., Powell, J., Zhang, Y., Darian, E., Shi, X. "Arenediazonium Ion Carcinogenesis: Activation of AP-1 and p53, 34th Graduate Student Symposium in Medicinal Chemistry,, The Ohio State University-School of Pharmacy, Columbus, OH, June 28-30, 2001.
88) Darian, E. and Gannett, P.M., Molecular Dynamics Simulation and EPR Studies of Spin-probe labeled DNAs, Model(l)ing 2001, The Annual International Meeting of the Molecular Graphics and Modelling Society, 9/17/01-9/21/01, Erlangen, Germany.
89) Johnson, II, E.M.; Darian, E., Powell, J.H.; Gannett, P.M. "The Use of Spin Probe Technology in Developing Novel DNA Scanning Techniques (DNA Chips)" 23rd Annual Pharmacy Student Research Conference - Eastern States, 10/13/2001-10/14/2001, Morgantown, WV 26506.
90) Tracy, T.S., Gannett, P.M., James, D.G., James, M.S., Rybeck, B.F., Knopp, J.B. "Decomposition of Opiate Analgesics in the Presence of Formaldehyde" American Academy of Forensis Sciences Annual Meeting, Feb 11-16, 2002, Atlanta, GA.
91) Heavner, S., Daft, J., Darian, E., Johnson, II, E.M., Gannett, P.M., and Strobl, J. "Conformational Affects Induced by C8-Arylation of Guanine in DNA: Molecular Modeling and Synthesis of Stabilized Z DNAs" HSC Research Day, April 12, 2002
92) Heavner, S., Daft, J., Darian, E., Johnson, II, E.M., Gannett, P.M., Strobl, J. "Conformational Affects Induced by C8-Arylation of Guanine in DNA: Molecular Modeling and Synthesis of Stabilized Z DNAs. 35th Graduate Student Symposium in Medicinal Chemistry, The University of Toledo, Toledo, OH, June 27-29, 2002.
93) Shaughnessy, K.H., Western, E.C., Gannett, P.M., Daft, J.R., Johnson, II, E,M. "Modification of Unprotected Nucleosides Using Water-Soluble Palladium Catalysts." 224th ACS National Meeting, Boston, MA Aug 18-22, 2002.
94) Budil, D.E., Micalizzi, M., Darian, E., Gannett, P.M. "Diffusive Step Method for Determining the Fully Anisotropic Rotational Diffusion Tensors of Tethered Label Molecules", 224th ACS National Meeting, Boston, MA Aug 18-22, 2002.
95) Gannett, P.M., Darian, E., Greenbaum, N.L., Dalal, N.S. "Do spin labels in oligodeoxynucleosides modify their structure", EMR Workshop, National High Field Magnet Laboratory, Tallahassee, FL. Dec

13-15, 2002.

96) Daft, J.R., Gannett, P.M., Heavner, S., and Callery, P.S. “Synthesis, Properties, and NMR of C8-Arylguanine Modified Oligonucleotides Derived from Carcinogenic Arylhydrazines”. (2003) Proceedings of the Amer Assoc Cancer Res. **44**:A453.

97) Toth, B., Lee, I.P., Daft, J. and Gannett, P.M. “Analysis of Carcinogens in *Agaricus blazei* Murill K, Its Antitumor Effects, and Two-Year Tumor Bioassay.” (2003) Proceedings of the Amer Assoc Cancer Res. **44**:A558.

98) Hummel, M.A., Gannett, P.M., and Tracy, T.S. “Evaluation of Proton to Heme Distances of Flurbiprofen and Dapsone within the Active-site of CYP2C9", Hummel, M.A., Gannett, P.M., and Tracy, T.S., **35**:201 (2003).

99) Gannett, P.M., Hummel, M.A., Aguilar, J.S., and Tracy, T.S. “T1 Relaxation Time Based Evaluation of Proton to Heme Distances of Flurbiprofen and Dapsone within the Active Site of CYP2C9", 33rd Southeastern Magnetic Resonance Conference (October 17-19, 2003, Tallahassee, Florida) p. 48.

100) Ayscue, R.R., Gannett, P.M., ‘EPR and Molecular Modeling Studies of Spin Labeled DNA Antisense Agents’, E.J. Van Liere Convocation and Research Day, West Virginia University, April 29-30, 2004, Morgantown, WV.

101) Daft, J. and Gannett, P.M. ‘C^8-Arylpurine Oligonucleotide Synthesis and Modeling: An Investigation into Chemical Carcinogenesis’, E.J. Van Liere Convocation and Research Day, West Virginia University, April 29-30, 2004, Morgantown, WV.

102) Heavner, S.E. and Gannett, P.M. ‘Molecular Modeling and Experimental Determination of the Structure of C8-Arylguanine Modified Oligonucleotides the Preferentially Adopt the Z-DNA Conformation’, E.J. Van Liere Convocation and Research Day, West Virginia University, April 29-30, 2004, Morgantown, WV.

103) Myers, A.L., Daft, J.R., Gannett, P.M., Callery, P.S. Mercapturic Acid Derivative of a Cocaine Pyrolysis Product, 3-(N-Acetylcystein-S-yl)Anhydroecgonine Methyl Ester, Drug Metab. Rev. 36:A446 (2004).

104) Hummel, M.A., Gannett, P.M., Tracy, T.S. ‘Effect of Diclofenac on Flurbiprofen Metabolism and Orientation Within CYP2C9 Active Site’, Drug Metab. Rev. 36:A557 (2004).

105) Hummel, M.A., Gannett, P.M., Tracy, T.S. ‘Comparison of Proton to Heme Distances of Flurbiprofen in CYP2C9.1 and CYP2C9.3', Drug Metab. Rev. 36:A220 (2004).

106) Deshmukh, R.S., Ericksen, S.S., Gannett, P.M., Szklarz, G.D., ‘Orientation of Phenacetin and Acetaminophen within the Active Site of Human Cytochrome P450 1A1 and 1A2', Drug Metab. Rev. 36:A135 (2004).

107) Ayscue, R., Gannett, P.M. ‘EPR and Molecular Modeling Studies of Spin-Labeled DNA Antisense Agents’, E.J. Van Liere Convocation and Research Day, West Virginia University, April 28-29, 2005, Morgantown, WV.

108) Deshmukh, R., Ericksen, S.S., Gannett, P.M., Szklarz, G.D. ‘Orientation of Phenacetin and Acetaminophen within the Active Site of Human Cytochrome P450 1A1 and 1A2', E.J. Van Liere Convocation and Research Day, West Virginia University, April 28-29, 2005, Morgantown, WV.

109) Ayscue, R., Gannett, P.M. ‘Nanobiosensors: Cytochrome P450s Attached to Au’, E.J. Van Liere Convocation and Research Day, West Virginia University, April 28-29, 2005, Morgantown, WV.

110) Ayscue, R.R., Smith, M.C., Gannett, P.M., Darian, E. ‘EPR and Molecular Modeling Studies of Spin-Labeled DNA Antisense Agents’, 38th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry’ Duquesne University, Pittsburgh, PA, June 19-21, 2005.

111) Kabulski, J., Gannett, P.M., Lederman, D., Gu, J., Tracy, T.S. ‘Nanobio Metabolism Chips for Cytochrome P450-Drug Interaction Screening’, 38th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry’ Duquesne University, Pittsburgh, PA, June 19-21, 2005.

112) Vongsuitlers, V., Gannett, P.M. ‘Synthesis of 8-Carboxy Phenyl-2'deoxyguanosine Containing CG Decamers ’, 38th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry’ Duquesne University, Pittsburgh, PA, June 19-21, 2005.

113) Famouri, P., Takatsuki, H., Hornak, L.A., Brown, K., Chilakamarri, R., Timperman, A., Lenke, J., Gannett, P., Kohama, K. ‘Nanofilament Directional Control within a Hybrid Microelectronic Actin-Myosin Motility Assay via Integrated Electric Field Addressing’ 2005 NSTI BioNano Conference and Trade Show, Anaheim, CA, May 8-12, 2005.

114) Gu, J., Li, D., Kabulski, J., Liu, Z, Perez, F.A., Gannett, P.M., Lederman, D. “Magnetoelectronic Properties of Cytochrome Proteins”, The MAR06 Meeting of The American Physical Society, Baltimore, MD, 3/12-3/16, 2006.

115) Li, D., Gu, J., Chye, Y., Lederman, D., Kabulski, J., Gannett, P.M., Tracy, T.S., ‘Exploring the Electrical Conductivity of Cytochrome P450 by Nano-Electrode and Conductive Atomic Force Microscopy’, The MAR06 Meeting of The American Physical Society, Baltimore, MD, 3/12-3/16, 2006.

116) Gu, Li, D., Y., Lederman, D., Kabulski, J., Gannett, P.M., Flynn, D., ‘Specifically Detect Vascular

Endothelial Growth Factor (VEGF) with Micro Cantilever Resonator', The MAR06 Meeting of The American Physical Society, Baltimore, MD, 3/12-3/16, 2006.

117) Aguilar, J., Hartman, Z.R., Niehaus, A.G., Gannett, P.M., Tracy, T.S. 'Distance dependence of flurbiprofen and dapsone in the CYP 2C9 active site as studied by molecular dynamics', Division of Computers in Chemistry, 231st American Chemical Society Mtg,, Atlanta, GA, Mar 26-30, 2006.

118) Hartman, Z.R., Fry, J.L., Gardner, B.L., Aguilar, J.S., Gannett, P.M., Tracy, T.S. ''Molecular dynamics of hydrogen bonding interactions of dapsone and flurbiprofen within the CYP 2C9 active site', Division of Computers in Chemistry, 231st American Chemical Society Mtg,, Atlanta, GA, Mar 26-30, 2006.

119) Ayscue, R. and Gannett, P.M., "Predicting Atypical Kinetics in P450 Reactions Using A Computational Approach: Comparison of Three Popular Docking Algorithms", HSC Research Day and Van Liere Convocation, April 27-28, 2006, Morgantown, WV.

120) Jett, John, Gannett, P.M., and Flynn, D. "The Amino-Terminal Pleckstrin Homology Domain of the Src-Binding Partner AFAP-110 as a Target for Drug Deign", HSC Research Day and Van Liere Convocation, April 27-28, 2006, Morgantown, WV.

121) Kabulski, J., Gannett, P.M., Lederman, D., "Characterization, Electrochemistry and Substrate metabolism Gold-Immobilized Cytochrome P450 2C9", HSC Research Day and Van Liere Convocation, April 27-28, 2006, Morgantown, WV.

122) Vongsutilers, V. and Gannett, P.M. "Molecular Dynamics of the B and Z Forms of C8-carboxyph)enylguanine Modified Oligonucleotides", HSC Research Day and Van Liere Convocation, April 27-28, 2006, Morgantown, WV.

123) Jett, J.E., Flynn, D.C., Zot, H.G., Gannett, P.M. "Structure-based Drug Design Against the Amino-Terminal Pleckstrin Homology Domain of AFAP-110 as a Method for the Inhibition of Cancer Metastasis", 39th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Columbus, OH, June 18-20, 2006.

124) Ayscue, R.R. and Gannett, P.M. "EPR and Molecular Modeling Studies of Spin-Labeled DNA Antisense Agents", 39th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Columbus, OH, June 18-20, 2006.

125) Vongsutilers, V. and Gannett, P.M. "The Synthesis of the Carcinogenic C^8-Carboxyphenyl & C^8-Hydroxymethylphenyl Guanine Adducts and Their Effect on DNA Conformation", 39th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Columbus, OH, June 18-20, 2006.

126) Wollenberg, L., Kabulski, J., Gannett, P.M., Perez, F.A., Liu, Z., Lederman, D., Locuson, C.W., Ayscue, R.R., Thomsen, N.M., Tracy, T.S. "Preparation, Characterization, and Substrate Metabolism of Gold-Immobilized Cytochrome P450 2C9", 39th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Columbus, OH, June 18-20, 2006.

127) Kabulski, J., Gannett, P.M., Perez, F.A., Liu, Z., Lederman, D., Locuson, C.W., Ayscue, R.R. "Preparation, Characterization, and Substrate Metabolism of Gold-Immobilized Cytochrome P450 2C9, 30th National Medicinal Chemistry Symposium, Jun 25-30, 2006, Seattle, WA.

128) Vongsutilers, V. and Gannett, P.M. "The Synthesis of the Carcinogenic C^8-Carboxyphenyl & C^8-Hydroxymethylphenyl Guanine Adducts and Their Effect on DNA Conformation", 30th National Medicinal Chemistry Symposium, Jun 25-30, 2006, Seattle, WA.

129) Ayscue, R.R. and Gannett, P.M., "EPR and molecular modeling studies of spin-labeled DNA antisense agents", 30th National Medicinal Chemistry Symposium, Jun 25-30, 2006, Seattle, WA.

130) Gannett, P.M. "Analysis for Carcinogens and the Safety of *Agaricus blazei Murill* (ABMK), Functional Foods Symposium, Tokyo, Japan, June 30-July 2, 2006.

131) Gannett, P.M., Kabulski, J.L., Perez, F.A., Liu, Zhongyuan, L., Lederman, D., Locuson, C.W., Ayscue, R.R., Thomsen, N.M., Tracy, T.S., "Gold-immobilized Cytochrome P450 2C9 metabolism: On chip technology", 232nd ACS National Meeting, San Francisco, CA, Sept 10-14, 2006.

132) Ayscue, R.R. and Gannett, P.M., "EPR and molecular modeling studies of spin-labeled DNA antisense agents", 232nd ACS National Meeting, San Francisco, CA, Sept 10-14, 2006.

133) Vongsutilers, V. and Gannett, P.M., "Synthesis of the carcinogenic C8-carboxyphenyl & C8–hydroxymethylphenyl guanine adducts and their effect on DNA conformation", 232nd ACS National Meeting, San Francisco, CA, Sept 10-14, 2006.

134) Jett, J., Flynn, D.C., Zot, H.G., and Gannett, P.M. "Characterizing binding interactions of the PH1 domain of AFAP-110: A precursor to anticancer therapeutic design", 232nd ACS National Meeting, San Francisco, CA, Sept 10-14, 2006.

135) Kumar, V., Locuson, C.W., Gannett, P.M., and Tracy, T.S. "Choosing Docking Poses for Use in Predicting CYP2C9 Inhibition with 3D-QSAR Models", ISSX mtg, Oct 17-21, 2006, Puerto Rico.

136) Hensel, R., Edwards, B., Shremshock, M., Carroll, L., Hornak, L., Jackson, K., Gannett, P., Cullison, A., "Introduction to Nanotechnology Design", ASEE North Central Section Conference, Marriott Town

Center, Hotel, Charleston, WV, Mar30-32, 2007.

137) Hensel, R., Edwards, B., Shremshock, M., Carroll, L., Hornak, L., Jackson, K., Gannett, P., Cullison, A., "Introduction to Nanotechnology Design", ASEE North Central Section Conference, Marriott Town Center, Hotel, Charleston, WV, Mar30-32, 2007

138) Ayscue, R. and Gannett, P.M., "Atypical Kinetic Behavior As A Function of Substrate-Protein Interactions: A Computational Approach" HSC Research Day & Van Liere Convocation, Morgantown, WV, Apr 24-25, 2007.

139) Vongsutilers, V. and Gannett, P.M., "The Role of Z-DNA in Arylhydrazine Carcinogenesis", HSC Research Day & Van Liere Convocation, Morgantown, WV, Apr 24-25, 2007.

140) Wollenberg, L. and Gannett, P.M., "Analysis of Substrate Metabolism for Immobilized CYP2C9: A Potential Bioreactor Application", HSC Research Day & Van Liere Convocation, Morgantown, WV, Apr 24-25, 2007.

141) Jett, J. and Gannett, P.M. "Nanostructured Electrochemical Biosensors for Cisplatin Detection", HSC Research Day & Van Liere Convocation, Morgantown, WV, Apr 24-25, 2007.

142) Kabulski, J. and Gannett, P.M., HSC Research Day & Van Liere Convocation, Morgantown, WV, Apr 24-25, 2007.

143) Vongsutilers, V. and Gannett , P.M. "Role of Z-DNA in arylhydrazine carcinogenesis", 234th ACS National Meeting, Boston, MA, August 19-23, 2007.

144) Wollenberg, L, Kabulski, J.L., Tracy, T.S., Lederman, D., and Gannett, P.M., "Analysis of substrate metabolism for an immobilized CYP2C9 construct: A potential bioreactor application", 234th ACS National Meeting, Boston, MA, August 19-23, 2007.

145) Kabulski, J.L., Wollenberg, L., Yang, M., Wu, N., Tracy, T.S., Lederman, D., and Gannett, P.M., "Enzyme characterization at the nano-bio interface", 234th ACS National Meeting, Boston, MA, August 19-23, 2007.

146) Jett, J.E., Wu, N., Li, H., and Gannett, P.M., "Nanobio-based Electrochemical Biosensors for Cisplatin Detection", 234th Annual American Chemical Society Mtg,, Boston, MA, Aug. 19-23, 2007.

147) Gannett, P.M., Kabulski, J., Wollenberg, L., Gu, J., Li, D., Lederman, D., Tracy, T.S. "Cytochrome P450-Gold Nanobiochip Platform for Basic Science Research and Practical Applications", 15th International Conference on Cytochromes P450, Bled, Slovenia, Jun 17-21, 2007. Awarded 2nd place for meeting posters.

148) Aguilar, J.S., Hartman, Z.R., Danhart, E.M., Lee, M.R., Gannett, P.M., Tracy, T.S. "Molecular Dynamics of Dapsone Analogs and Distance Correlation to Flurbiprofen Activation in CYP2C9", 15th International Conference on Cytochromes P450, Bled, Slovenia, Jun 17-21, 2007.

149) Gannett, P.M., "Gold-Immobilized Cytochrome P450s: Functionality and Application to the Study of Protein-Protein Interactions", Jilin University-West Virginia University Bilateral Symposium on Nanoscience and Supramolecular Materials, Changchun, P.R. China, Sept 1-2, 2007.

150) Ayscue, R. and Gannett, P.M. "Atypical Kinetic Behavior as a Function of Substrate-Protein Interactions", 30th MAGSS, Morgantown, WV, June 10-12, 2007.

151) Vongsutilers, V. and Gannett, P.M. "The Role of Z-DNA in Arylhydrazine Carcinogenesis", 30th annual MAGSS, Jun 10-12, Morgantown, WV

152) Vongsutilers, V., Gannett, P.M., Phillips, D.J., "Role of Z-DNA in Aryl Hydrazine Carcinogenesis", STaR Symposium, Sept 18, 2007, Morgantown, WV

153) Jett, J.E., Li, H., Wu, N., Gannett, P.M. "Designing an Aptamer-based, Nanostructured Electrochemical Biosensor for the Detection of the Anticancer Drug Cisplatin, Great Lakes Symposium, Aug 2007, Pittsburgh, PA.

154) Jonathan Proto, Vorasit Vongsutilers, Peter M. Gannett, "The Relationship of Abasic Site Formation to Aryl Hydrazine Carcinogenesis", 2007 Annual Biomedical Research Conference for Minority Students (ABRCMS) November 7-10, 2007, Austin, TX.

155) Jarod L. Kabulski, Lance Wollenberg, Mingli Yang, Nick Wu, Nissa Thomsen, Timothy S. Tracy, and Peter M. Gannett, "Au-Bound P450 Platform: An In-vitro Tool for Predicting In-vivo Cancer Drug Toxicity, Translational Research in Cancer Center Consortium Annual mtg, Morgantown, WV, Feb 21-22, 2008.

156) Jett, J.E., Wu, N., Li, H., and Gannett, P.M., "Nanobiobased electrochemical biosensors for cisplatin detection", Translational Research in Cancer Center Consortium Annual mtg, Morgantown, WV, Feb 21-22, 2008.

157) Gannett, P.M., "Controlling the B/Z DNA Conformational Equilibrium Using C8-Arylguanine Substitution" Multifunctional Nanomaterials International Symposium, Apr 11-12, 2008, Stonewall Jackson Resort, Roanoke, WV.

158) Wang, H., Cheatham, T., Gannett, P.M., and Lewis, J. "Dynamics of A-B transition of the DNA double helices", Amer. Phys. Soc. MARO* meeting, New Orleans, LA, March 10-14, 2008.

159) N. Wu, M. Yang, J. Kabulski, P. Gannett and T. Tracy, "Electrochemical Studies on Wafarin Metabolism by Immobilized Cytochrome P450 2C9 Enzyme", 214th ECS Meeting, Honolulu, HI, Oct 12-17, 2008.
160) Phillips, D.J., Vongsutilers, V., Gannett, P.M., "Synthesis and characterization of a C8-methoxymethylphenylguanine modified DNA oligonucleotide to study B form to Z form transitions in DNA secondary structure", 236th ACS National mtg., Philadelphia, PA, August 17-21, 2008.
161) Jett, J.E., Wu, N., Li, H., Gannett, P.M. "Electrochemical biosensors for cisplatin detection", 236th ACS National mtg., Philadelphia, PA, August 17-21, 2008.
162) Kabulski, J.L., Wollenberg, L., Yang, M., Wu, N., Thomsen, N., Tracy, T.S., Gannett, P.M. "Au-bound P450 platform: An in vitro tool for predicting in vivo drug metabolism", 236th ACS National mtg., Philadelphia, PA, August 17-21, 2008.
163) Wollenberg, L., Kabulski, J.L., Yang, M., Wu, N., Powell, M., Martin, L., Thomsen, N., Tracy, T.S., Gannett, P.M., "Immobilized Cytochrome P450 enzyme constructs: A potential Bioreactor Application", 236th ACS National mtg., Philadelphia, PA, August 17-21, 2008.
164) Kramer, M.A., Locuson, C.W., Gannett, P.M., Tracy, T.S. "Kinetic Isotope Studies to Evaluate Whether Two Naproxen Molecules Occupy the Active Site of Cytochrome P450 2C9 Simultaneously", Gordon Research Conference, Holderness, NH, July 6-11, 2008
165) Kabulski, J., "Au-Bound P450 Platform: An *In vitro* Tool for Predicting *In vivo* Drug Metabolism", Charleston, WV, Apr 14-15, 2009.
166) Jett, J.E., "Developing nano-based biosensors for quick and accurate detection of *in vivo* anticancer drug concentrations", Charleston, WV, Apr 14-15, 2009.
167) Li, Debin, Gannett, P., Lederman, D. "Electron Transfer in Myoglobin-based Single-Electron Transitors", American Physical Society, MAR09 Meeting, Mar 16-20, 2009, Pittsburgh, PA.
168) STaR meeting, Wollenberg, L. and Gannett, P.M.., "Immobilized Cytochrome P450 enzymes: A biosynthetic approach to production of drug metabolites, Charleston, WV, Apr 14-15, 2009.

E) Abstracts in Press

1) N/A

F) Abstracts Submitted

1) N/A

G) Patents and Disclosures of Invention

1) Disclosure of Invention: "Cytochrome P-450 Biometabolism Chips", Co-inventors: David Lederman, Tim Tracy, Jarod Kabulski.
2) Divisional Patent Application, "Peptides and Chemical Compound for Inhibition of SHP2 Function", Inventor: Y. Agazie, Co-inventor, P.M. Gannett
3) Disclosure of Invention: "A Drug Targeting the PH Domain of AFAP Modeled on Phosphatidic Acid. Inventor: Daniel C. Flynn. Co-Inventor: Peter Gannett
4) Wu, N., Petros, W.P., Flynn, D.C., Gannett, P.M., "Nanostructured Electrochemical Biosensor with Aptamer as Molecular Recognition Probe", US Patent Application Publication US 2008/0156646, July 3, 2008. http://www.patents.com/Nanostructured-electrochemical-biosensor-aptamer-molecular-recognition-probe/US20080156646/en-US/
5) Lederman, D., Flynn, D., Gannett, P.M., Myers, O.C.N., "Functionalized Microcantilever Sensor and Associated Method for Detection of Targeted Analytes",US Patent Application Publication, US2008/0160638 A1, July 3, 2008.
6) Flynn, D.C. and Gannett, P.M. "Methods and compositions for targeting AFAP", US Patent Application Number 12/077,653, 03/20/2008

H) Other Publications

1) Gannett, P.M. "The DNA's the Thing", in The 1991 Inquiry Annual Report, Office of Sponsored programs, West Virginia University, pp. 25-27.
2) Gannett, P.M. "Making Sense of Antisense," in The 1998-1999 Inquiry Annual Report, Office of Sponsored Programs, West Virginia University, pp. 6-7.
3) Gannett, P.M., Darian, E., van Tol, H., Dalal, N.S. High Field Aqueous EPR of Spin Adducts and

Oligonucleotides. NHMFL 2002 Annual Research Review. 68 (2003).

INVITIED SEMINARS AND MEETING PRESENTATIONS

A) Invited Seminars

1) "Base-pairing of 8-Hydroxy-2'-deoxyguanosine with 2'-Deoxyadenosine and 2'-Deoxythymidine", Department of Chemistry, West Virginia University, Morgantown, WV, March 30, 1992.
2) "The Base Pairing Properties of 8-Oxo-2'-deoxyguanosine (8-OxodG): Formation, Structure, and Stability of 8-OxodG Base Pairs with Adenosine, Cytosine, Guanosine and Thymidine", National Cancer Institute, Frederick Cancer Research and Development Center, Frederick, MD, March 12, 1993.
3) "Cytosine Specific DNA Cleaving Agents Derived from Tetrahydrofuran", School of Pharmacy, West Virginia University, Morgantown, WV, October 13, 1993.
4) "Free Radical Intermediates as a Focal Point for Multi-Disciplinary Research in the Biosciences", WVU Research Workshop, Bio-Research Interdisciplinary Research Focus Group, West Virginia University, April 21, 1994.
5) Guest on "Here's to your Health" (National Talk Show). Topic: Hot Peppers, Carcinogenic or Anti-carcinogenic. March 25, 1994.
6) "Free Radical Intermediates as a Focal Point for Multi-Disciplinary Research in the Biosciences", WVU Research Workshop, Bio-Research Interdisciplinary Research Focus Group, West Virginia University, April 21, 1994.
7) "Free Radical Intermediates as a Focal Point for Multi-Disciplinary Research in the Biosciences", WVU Research Workshop, Bio-Research Interdisciplinary Research Focus Group, West Virginia University, April 21, 1994.
8) "The use of 2-Hydroperoxytetrahydrofuran as a Reagent to Sequence Cytosine and to Probe Non-Watson-Crick DNA Structures" Dept. of Biochemistry, WVU, Nov. 30, 1994.
9) "The Chemistry of the Cytosine Specific DNA Sequencing Reagent 2-Hydroxyperoxytetrahydrofuran" West Virginia University, Department of Chemistry, April 24, 1995.
10) "Multidisciplinary Collaboration in Health Sciences Research: Why Bother?" Collaboratories: Technological Approaches for Geographical Information, Molecular Modeling and Educational Practices, West Virginia University, Mar 29-30, 1996.
11) Eppley Cancer Research Institute, Univ. of Nebr. Med. Center, Omaha, NE, "Design and Delivery of DNA Triplex Agents Based on 8-Oxoadenine", Sept. 26, 1996.
12) School of Pharmacy, West Virginia University, Morgantown, WV, "The Role of Arene Diazonium Ions and Aryl Radicals in Aryl Hydrazine Carcinogenesis", October 23, 1996.
13) Gannett, P.M., Shi, X., Lawson, T., Lord, J., Kolar, C., Erickson, J., and Toth, B. "The formation of 8-arylpurine adducts in DNA from arenediazonium ions: Mechanism and Genotoxicity, Invited article, First Virtual Congress about Pharmacy, Jan 1, 1998-Dec. 31, 1998.
14) Gannett, P.M., "Molecular Modeling in a CAVE environment", presented to the Collaborative Medical Imaging Laboratory Group, WVU, May 18, 1998, Morgantown, WV 26506.
15) Business Opportunities in Biomolecular Modeling, National Energy Technology Laboratory (NETL), Morgantown, WV, January 20, 2000.
16) The Role of Free Radicals in Aryl Hydrazine Carcinogenesis, Department of Pharmacology and Toxicology, WVU, Morgantown, WV, March 20, 2000.
17) The Role of Free Radicals in Aryl Hydrazine Carcinogenesis, Northeastern University, Boston, MA, Apr 27, 2000.
18) The Role of Free Radicals in Aryl Hydrazine Carcinogenesis, Northeastern University, Boston, MA, Apr 27, 2000.
19) Aryl Hydrazine Chemistry and Carcinogenesis, Plenary Lecture, Massachusetts College of Pharmacy and Health Sciences, Boston, MA, Apr 28, 2000.
20) WV/EPSCoR Virtual Environments, Immersive Visualization of the Molecular Sciences, ECSE, Morgantown, WV, May 16, 2000.
21) University of Alabama – Tuscaloosa, Aryl Hydrazine Carcinogenesis and the role of Aryl Radicals, April 6, 2001.
22) West Virginia University, Spin Probe Labeled Oligonucleotides: Synthesis, Separation and Spectra, Sept 27, 2001.
23) National High Magnetic Field Laboratory, "Do Spin Labels in Oligonucleotides Modify Their Stability or

Structure", EMR Developments and Applications in Chemistry, Biology, and Materials Science, 12/13-12/15, Tallahassee, FL.

24) "EPR and Molecular Dynamics (MD) of Spin Labeled Oligonucleotides", Department of Physics, WVU, 11/6/2003.
25) "The Role of Free Radicals in Aryl Hydrazine Carcinogenesis", Department of Chemistry, UPR, San Juan, Puerto Rico, 09/24/04.
26) "WVNano, Nanotechnology and Nanoscience", Systems Biology, Morgantown, WV, 09/28/04
27) Gannett, P.M., "B/Z DNA Equilibrium and Energetics of Purine C8-Arylated Oligonucleotides", The 2005 Madison Organic Chemistry Symposium, June 3-4, 2005, Madison, WI.
28) Molecular Modeling and Electron Paramagnetic Resonance of Spin Labeled DNA, Institute of Theoretical Chemistry, Jilin University Key Lab for Supramolecular, Structure, and Materials, Jilin University, Changchun, China, May 23, 2006.
29) Molecular Modeling and Nanoscience Applications of C8-Arylpurine Modified DNA, Institute of Theoretical Chemistry, Jilin University Key Lab of Theoretical and Computational Chemistry, Jilin University, Changchun, China, May 24, 2006.
30) Analysis for Carcinogens and the Safety of *Agaricus blazei Murill* (ABMK), Functional Foods Symposium, Tokyo, Japan, June 30-July 2, 2006.
31) Nanotechnology, 2007 Annual MBRCC Retreat, Stonewall Jackson Resort, Roanoke, WV, July 23-24, 2007.
32) Gannett, P.M., "Gold-Immobilized Cytochrome P450s: Functionality and Application to the Study of Protein-Protein Interactions", Jilin University-West Virginia University Bilateral Symposium on Nanoscience and Supramolecular Materials, Changchun, P.R. China, Sept 1-2, 2007.
33) "Controlling the B/Z DNA Conformational Equilibrium Using C8-Arylguanine Substitution" Multifunctional Nanomaterials International Symposium, Apr 11-12, 2008, Stonewall Jackson Resort, Roanoke, WV.
34) "Prediction of Spin Labeled DNA Correlation Times by Molecular Dynamics and Comparison with Experiment", 37th Southeastern Magnetic Resonance Conference, Tallahassee, FL, Oct 19-20, 2008.
35) In Silico Lead Discovery and Drug Development, Drug Design Group, HSC, WVU, Dec. 15, 2008

B) Meeting Presentations

1) The Missouri Academy of Science (Collegiate Division), "$MgSO_4$-Catalyzed Thermolysis of 1,3-Dioxan-2-ones – A New Synthesis of Homoallylic Alcohols", St. Louis, Mo., 4/77.
2) Chemical Bonding Seminar Series, "Bonding in Amino and Hydrazine Radical Cations", Department of Chemistry-University of Wisconsin-Madison, 7/80).
3) Second Nebraska Symposium on Cancer and Smoking Related Diseases 1986, "The Metabolism of Capsaicin: A Putative Carcinogen Derived from Red Pepper", Terence Lawson, Jody Sharp, and Peter M. Gannett, Omaha, NE, 11/86.
4) Second Nebraska Symposium on Cancer and Smoking Related Diseases 1986, "Involvement of Oxygen Radicals in Nitrosamine Activation.", Peter Gannett and Terence Lawson, Omaha, NE, 11/86.
5) American Chemical Society 193rd meeting, "Isolation, Synthesis, and metabolism of the Capsaicinoids", Peter M. Gannett, Donald L. Nagel, and Bela Toth, Denver, CO, 4/87.
6) American Association for Cancer Research 1987 meeting, Atlanta, GA, "Interactions of Diazonium Ions with Adenine and Tumor Induction with an Ingredient of the Cultivated Mushroom *Agaricus bisporus*", P. Gannett, T. Lawson, and B. Toth, Atlanta, GA, 5/87.
7) Advances in the Biology and Chemistry of N-Nitroso and Related Compounds, "The Reaction of Benzene Diazonium Ions with DNA *in vivo*", Terence Lawson and Peter M. Gannett, Omaha, NE, May 19-23, 1988.
8) "Early Detection of Cancer by NMR Analysis of Blood Plasma", Peter M. Gannett, Donald Nagel, Margaret Tempero, Stephen Rennard, James Rennard, 79th Annual Meeting of the American Association for Cancer Research, New Orleans, Louisiana, May 25-28, 1988.
9) "Chemical and Carcinogenesis Studies with the Diazonium Ions Related to the Cultivated Mushroom *Agaricus bisporus* (AB)", Terence Lawson, Peter Gannett and Bela Toth, 79th Annual Meeting of the American Association for Cancer Research, New Orleans, Louisiana, May 25-28, 1988.
10) "An Electrochemical Model for the Metabolism of Capsaicin", Peter M. Gannett, Pam Reilly, Jody Sharpe, and Bela Toth, 195th American Chemical Society Meeting; Third Chemical Congress of North America, Toronto, Canada, June 5-10, 1988.
11) "Chemical and Enzymatic Oxidation of Hydrazines Derived from the Edible Mushroom *Gyromitra Esculenta*", P.M. Gannett, T. Lawson, and B. Toth, 73rd meeting of the Federation of American Societies of Experimental Biology, New Orleans, March 19-23, 1989.

12) "Early Detection of Cancer by NMR Analysis of Blood Plasma", P.M. Gannett, D.L. Nagel, M.A. Tempero, S.I. Rennard, J.O. Armitage, and C. Kolar, Third Nebraska Symposium on Cancer and Smoking-Related Diseases, Omaha, NE, March 30-31, 1989.
13) "Intermediates and Products from the Chemical and Biological Oxidation of Methyl Formyl Hydrazine", P.M. Gannett, Terence Lawson, and Bela Toth, 197th Annual meeting of the American Chemical Society, Dallas, TX, April 9-14, 1989.
14) "Hydroxylation of Guanosine by Hydrazines Catalyzed by Copper" Gannett, P.M., Toth, B. 200th Annual mtg of the American Chemical Society, Washington, D.C., August 25-31, 1990.
15) "Heat Sensitivity of Chemicals of the *Agaricus bisporus* (AB) Mushroom" Gannett, P.M., Toth, B. 1991 Annual meeting, Houston, TX, May 15-18, 1991.
16) "Tumor Induction with Capsaicin of Hot Pepper in Mice", Toth, B. and Gannett, P., 1992 FASEB mtg., April 5-10, Annaheim, CA.
17) "Base-pairing of 8-Oxoguanosine with 2'-Deoxyadenosine", Gannett, P.M. and Sura, T.P., 203rd Annual American Chemical Society meeting, Medicinal Chemistry Division, April 5-10, San Francisco, CA.
18) "Base-pairing Properties of 8-Oxo-2'-deoxyguanosine (8-Oxo-dG)", Gannett, P.M., Sura, T.P., and Toth, B., Annual American Association for Cancer Research Meeting, San Diego, CA, May 20-23, 1992.
19) "Base-pairing of 8-Oxoguanosine with Thymidine", Gannett, P.M., Sura, T.P., 204rd Meeting of the American Chemical Society, Organic Division, Washington, D.C., August 23-28, 1992.
20) "Base-pairing of 8-Oxoguanosine with Adenosine and Thymidine", Gannett, P.M., Sura, T.P., and Thakkar, D.D., 204th Meeting of the American Chemical Society, Washington, D.C., August 23-28, 1992
21) "A comparative assessment of the carcinogenic potencies of the *Gyromitra esculenta* (GE) mushroom and its six hydrazine ingredients", Toth, B., Gannett, P. and Nagel, D., 1993 FASEB meeting.
22) "An assessment of the cancer-inducing potencies of the cultivated mushroom *Agaricus bisporus* (AB) and its four ingredients", Toth, B., Gannett, P. and Nagel, D., 1993 Annual meeting of the American Association for Cancer Research, Orlando, FL, May 19-23, 1993.
23) "Arylradicals from aryldiazonium ions in the mushroom *Agaricus bisporus*", Gannett, P.M., Toth, B., Lawson, T., 85th Annual AACR meeting, San Francisco, CA, April 10-13, 1994, Proc. Am. Assoc. Res. Cancer (1994) **35**:A669.
24) "Free Radical Intermediates as a Focal Point for Multi-Disciplinary Research in the Biosciences", Gannett, P.M., WVU Research Workshop, Bio-Research Interdisciplinary Research Focus Group, West Virginia University, April 21, 1994.
25) "C-8-Arylation of guanine in DNA from aryl diazonium ions found in the mushroom *Agaricus bisoporus*", Gannett, P.M., Lawson, T., Toth,B., 86th Annual AACR meeting, Toronto, Ontario, Canada, 3/18-3/22, 1995.
26) "Multidisciplinary Collaboration in Health Sciences Research: Why Bother?" , Gannett, P.M., Collaboratories: Technological Approaches for Geographical Information, Molecular Modeling and Educational Practices, West Virginia University, Mar 29-30, 1996.
27) "Carcinogenesis Studies with the Baked Mushroom *Agaricus bisporus*," Toth, B. and Gannett, P. 87th Annual Meeting of the American Association for Cancer Research, April 20-24, 1996, Washington, D.C.
28) "Role of aryl radicals in the formation of C8-aryl guanine adducts by aryl diazonium ions," Gannett, P.M., Lawson, T., Lord, J.W. and Toth, B., 87th Annual Meeting of the American Association for Cancer Research, April 20-24, 1996, Washington, D.C.
29) Toth, B., Erickson, J., Gannett, P., Lawson, T. "Baked *Agaricus bisporus* (**AB**) Mushroom Carcinogenesis in Mice: Another Experimental Approach" FASEB meeting, (1997)
30) Toth, B., Gannett, P., Lawson, T., and Erickson, J. "Baked *Agaricus bisporus* mushroom carcinogenesis study in Swiss mice" (1997), 88th Annual AACR meeting, San Diego, CA Apr 12-16.
31) Gannett, P., Yau, W.M., Lawson, T., Lord, J., Kolar, C., and Toth, B. "Formation of C-8-aryladenine adducts from arenediazonium ions and DNA" (1997), 88th Annual AACR meeting, San Diego, CA Apr 12-16.
32) Powell, J.H., Duffy, J.W., Gannett, P.M., Lawson, T., Kolar, C. and Toth, B. Aryltriazene formation and depurination of DNA caused by arenediazonium ions. AACR Annual Mtg, 3/28-4/1, 1998, New Orleans.
33) Toth, B. and Gannett, P. "Cancer Induction by Benzenediazonium Sulfate (BD) in Mice", 1998 Annual FASEB mtg., 4/18-4/22, San Francisco, CA.
34) Gannett, P.M. and Powell,J., "AP-1 Induction by Arenediazonium Ions and Aryl Radicals, Health Sciences Research Day, 3/19/99, Morgantown, WV
35) Powell,J. and Gannett, P.M. , "Synthesis and analysis of a nitroxide-based spin probe-labeled triplex forming oligonucleotide", Health Sciences Research Day, 3/19/99, Morgantown, WV.
36) Toth, B., Erickson, J., Gannett, P., Lawson, T. "Additional cancer induction studies with

benzenediazonium sulfate (BD) 1999 Annual AACR Mtg., Philadelphia, PA.

37) Toth, B., Erikson, J., Gannett, P., Lawson, T. "Feeding the ram, baked and lyophilized *Agaricus bisporus* (AB) mushrooms: Evaluation of the results of carcinogenesis. 1999 Annual FASEB mtg.
38) Gannett, P.M., Shi, X., Ye, J., Zhang, Y., and Toth, B. "AP-1 Induction by Arenediazonium ions and Aryl Radicals *In Vitro* And *In Vivo*", 9th Annual ISSX mtg, Nashville, TN, Oct 24-28, 1999.
39) Gannett, P.M., "Building and manipulating complex structures in an Immersive environment." WV/EPSCoR Virtual Environments, Immersive Visualization of the Molecular Sciences, ECSE, Morgantown, WV, May 16, 2000.
40) Gannett, P.M.., Darian, E., Dalal, N.S., Mundoma, C., Greenbaum, N.L., "Do Spin Labels in Oligonucleotides Modify Their Stability or Structure", EMR Developments and Applications in Chemistry, Biology, and Materials Science, 12/13/02-12/15/02, National High Magnetic Field Laboratory, Tallahassee, FL.
41) Toth, B., Lee, I.P., Daft, J. and Gannett, P.M. "Analysis of Carcinogens in Agaricus blazei Murill K, Its Antitumor Effects, and Two-Year Tumor Bioassay." 94th Annual mtg of the AACR, Toronto, CA, 4/5/03-4/10/03.
42) Daft, J.R., Gannett, P.M., Heavner, S., and Callery, P.S. "Synthesis, Properties, and NMR of C8-Arylguanine Modified Oligonucleotides Derived from Carcinogenic Arylhydrazines". 94th Annual mtg of the AACR, Toronto, CA, 4/5/03-4/10/03.
43) Gannett, P.M., "Computational Biochemistry and High Performance Computing" Cluster Computing: Software and Systems for High Performance Computing, Workshop Spring 2003, SERC Showcase, May 16, 2003, Morgantown, WV.
44) Gannett, P.M., "B/Z DNA Equilibrium and Energetics of Purine C8-arylated Oligonucleotides", The 2005 Madison Organic Chemistry Symposium, June 3-4, 2005, Madison, WI.
45) Gannett, P.M. "Analysis for Carcinogens and the Safety of *Agaricus blazei Murill* (ABMK), Functional Foods Symposium, Tokyo, Japan, June 30-July 2, 2006.
46) Gannett, P.M., Kabulski, J., Wollenberg, L., Gu, J., Li, D., Lederman, D., Tracy, T.S. "Cytochrome P450-Gold Nanobiochip Platform for Basic Science Research and Practical Applications", 15th International Conference on Cytochromes P450, Bled, Slovenia, Jun 17-21, 2007.
47) Nanotechnology, 2007 Annual MBRCC Retreat, Stonewall Jackson Resort, Roanoke, WV, July 23-24, 2007.
48) Gannett, P.M., "Gold-Immobilized Cytochrome P450s: Functionality and Application to the Study of Protein-Protein Interactions", Jilin University-West Virginia University Bilateral Symposium on Nanoscience and Supramolecular Materials, Changchun, P.R. China, Sept 1-2, 2007
49) "The Effect of C8-Aryl Guanine Adducts on Z-DNA Stability: Implications for Carcinogenesis and Nanoscience", Seminar Presentation, Bethany College, WV, February 14, 2008.
50) "Controlling the B/Z DNA Conformational Equilibrium Using C8-Arylguanine Substitution" Multifunctional Nanomaterials International Symposium, Apr 11-12, 2008, Stonewall Jackson Resort, Roanoke, WV.
51) "Prediction of Spin Labeled DNA Correlation Times by Molecular Dynamics and Comparison with Experiment", 37th Southeastern Magnetic Resonance Conference, Tallahassee, FL, Oct 19-20, 2008.

C) Meetings Attended

1980 International Conference on Conformational Analysis, Durham, NH
1982 Synthesis 1982, Madison, Wisconsin
1983 American Chemical Society Fall Meeting, Atlantic City, NJ
1985 Ralph F. Hirschmann Lectures, Madison, Wisconsin October, 21-22
1986 1) American Association for Cancer Research, Los Angeles, CA
2) Second Nebraska Symposium on Cancer and Related Diseases, UNMC, Omaha, NE, Nov 21-22
1987 1) American Chemical Society Spring Meeting, Denver, CO., April 5-10
2) American Association for Cancer Research, Atlanta, GA
1988 1) Advances in the Biology and Chemistry of N-Nitroso and Related Compounds, Omaha, NE, May 19-22
2) American Association for Cancer Research, New Orleans, May 24-28
3) American Chemical Society, Third Chemical Congress of North America, Toronto, Canada, June 5-10
1989 1) 73rd Annual Meeting of the Federation of American Societies of Experimental Biologists, New Orleans, LA, March 19-23
2) Third Annual Nebraska Symposium on Smoking and Smoking-Related Diseases, Omaha, NE,

March 30-31
3) American Chemical Society, 197th Annual meeting of the American Chemical Society, Dallas, TX, April 9-14

1990 1) Mid-Atlantic Regional Medicinal Chemistry Graduate Students Meeting, Pittsburgh, PA, June 30-July 1
2) American Chemical Society, 200th Annual meeting of the American Chemical Society, Washington, D.C., August 25-31

1991 1) American Association for Cancer Research, 1991 Annual Meeting, Houston, TX, May 15-18

1992 1) American Association for Cancer Research, 1992 Annual Meeting, San Diego, CA, May 20-23
2) American Chemical Society, 204th Meeting of the American Chemical Society, Organic Division, Washington, D.C., August 23-28

1993 1) American Association for Cancer Research, 1993 Annual Meeting, Orlando FL, May 19-23
2) 25th Central Regional Meeting, American Chemical Society, Pittsburgh, PA, October 4-6, 1993

1994 1) 85th Annual AACR meeting, San Francisco, CA, April 10-13, 1994
2) WVU Research Workshop, Bio-Research Interdisciplinary Research Focus Group, West Virginia University, April 21, 1994

1995 1) WVU EPSCOR meeting, Jan 31-Feb. 1, 1995, Charleston, WV
2) AMS-AACP meeting, March 3-5, 1995 Washington, D.C.
3) 86th Annual AACR meeting, Toronto, Ontario, Canada, 3/18-3/22, 1995
4) 28th Annual Mid-Atlantic Regional Medicinal Chemistry Graduate Students Meeting, Pittsburgh, PA, June 25-June 27

1996 1) Collaboratories: Technological Approaches for Geographical Information, Molecular Modeling and Education Practicies, West Virginia University, Morgantown, WV March 29-30, 1996
2) American Association for Cancer Research, Washington, D.C., April 20-24, 1996

1997 1) American Association for Cancer Research, 88th Annual Meeting, San Diego, CA, April 12-16, 1997

1998 1) 5th Annual WV EPSCoR meeting, Charleston, WV, February 19-20, 1998
2) 89th Annual American Association for Cancer Research meeting, New Orleans, LA, 3/28-4/1/98
3) AAAS-EPSCoR meeting, "Networking Resources for Collaborative Research In the Southeast", Atlanta, GA 6/3/98-6/5/98

1999 1) WV State EPSCoR annual meeting, Charleston, WV 2/25/99-2/26/99
2) WVU-HSC Research Day, March 19, 1999, WVU, Morgantown, WV
3) Morgantown Molecular Modeling Group Meeting (Organizer), Morgantown, WV, 3/23/99
4) 32nd Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry, Buffalo, NY, July 11-13, 1999
5) 9th North American ISSX Meeting, Nashville, TN, October 24-28, 1999

2000 1) National Energy Technology Laboratory Russian Delegation Meeting, Morgantown, WV, Jan 20, 2000
2) WV EPSCoR 7th Annual State Conference, Charleston, WV, Feb 13-15, 2000
3) WVU/EPSCoR Virtual Environments, Morgantown, WV, May 16, 2000
4) 33rd Annal Mid-Atlantic Graduate Student Symposium, Pittsburgh, PA, July 9-11, 2000

2002 1) WVU-HSC Research Day, April 12, 2002, WVU, Morgantown, WV
2) 3rd International Conference on Oxygen/Nitrogen Radicals: Cell Injury and Disease, Morgantown, WV June 1-5, 2002
3) EMR Developments and Applications in Chemistry, Biology, and Materials Science, 12/13-12/15, National High Magnetic Field Laboratory, Tallahassee, FL.

2003 1) 94th Annual mtg of the AACR, Toronto, CA, 4/5/03-4/10/03.
2) Cluster Computing: Software and Systems for High Performance Computing, Workshop Spring 2003, SERC Showcase, May 16, 2003, Morgantown, WV.
3) 33rd Southeastern Magnetic Resonance Conference, October 17-19, 2003, Tallahassee, Florida

2004 1) WV EPSCoR annual mtg, May, 2004, Charleston, WV

2005 1) The 2005 Madison Organic Chemistry Symposium, Jun 3-4, 2005, Madison, WI
2) 38th Annual Mid-Atlantic Graduate Student Symposium in Medicinal Chemistry' Duquesne University, Pittsburgh, PA, June 19-21, 2005.
3) National NSF-EPSCoR mtg, Sept 25-29, 2005, Puerto Rico

2006 1) Functional Foods Symposium, Tokyo, Japan, June 30-July 2, 2006.
2) 232nd National American Chemical Society Meeting, San Francisco, CA, Sept 10-14, 2006
3) WV-INBRE-COBRE annual meeting, Stonewall Jackson Resort, Roanoke, WV, Nov 16-17, 2006.

2007 1) International Conference on Cytochromes P450, Bled, Slovenia, Jun 17-21, 2007.
2) 2007 MBRCC Annual retreat, Stonewall Jackson Resort, Roanoke, WV, July 23-24, 2007.

3) Jilin University-West Virginia University Bilateral Symposium on Nanoscience and Supramolecular Materials, Changchun, P.R. China, Sept 1-2, 2007

2008 1) Cancer Nanotechnology STEM Graduate Training Program", MBRCC-NIOSH Scientific Retreat, Waterfront Place, Morgantown, WV, Feb 12, 2008
2) Multifunctional Nanomaterials International Symposium, Apr 11-12, 2008, Stonewall Jackson Resort, Roanoke, WV.
3) AACP Institutue meeting, May 19-22, 2008, Landsdown, Virginia.
4) AACP Annual meeting, July 18-23, 2008, Chicago, Il
5) 37th Southeastern Magnetic Resonance Conference, Tallahassee, FL, Oct 19-20, 2008.
6) Nanobiotechnology Conference and Workshop, Cornell University, N.Y. Oct 26-27, 2008

D) Meeting Organizer

1) Morgantown Molecular Modeling Group Meeting (Organizer), Morgantown, WV, 3/23/99
2) 3rd International Conference on Oxygen/Nitrogen Radicals: Cell Injury and Disease, Morgantown, WV June 1-5, 2002
3) 2nd Annual WV CoBRE/INBRE Conference, Roanoke, WV, Nov 16-17, 2006

TEACHING EXPERIENCE

A) Undergraduate Courses

1) Teaching Assistant for Organic Chemistry 6/76-5/77, University of Missouri-Columbia
2) Teaching Assistant for Organic Chemistry 8/77-5/78, University of Wisconsin-Madison
3) Pharmacy 271, Medicinal Chemistry, West Virginia University, 1990-1998
4) Pharmacy 270, Medicinal Chemistry, West Virginia University, 1991-1998
5) Pharmacy 280, Drugs, Nutrients and Health, West Virginia University, 1991-1996
6) Pharmacy 289, Pharmaceutical Investigations I and II (1992,1993,1995,1997)
7) Pharmacy 290, Advanced Medicinal Chemistry, West Virginia University, 1992-1993
8) Chemistry 192D, Careers in Chemistry, West Virginia University, 1996-98
9) Pharmacy 358, Chemical Properties of Drugs, West Virginia University, 1999
10) Pharmacy 363, Chemistry of Drug Action, West Virginia University, 1999
11) Pharmacy 711, Chemical Properties of Drugs, West Virginia University, 2000-Present
12) Pharmacy 712, Pharmaceutical Care Lab II, West Virginia University, 1998-Present
13) Pharmacy 716, Chemistry of Drug Action I, West Virginia University, 2000-2001
14) Pharmacy 723, Pharmaceutical Care Lab III, West Virginia University, 1998-Present
15) Physics 293, Introduction to Nanotechnology Design, 2007

B) Graduate Courses

1) Biochemistry 860, University of Nebraska Medical Center, 1988-1989
2) Pharmacy 390, Advanced Medicinal Chemistry, West Virginia University, 1992-1993
3) Pharmacy 484, Special Topics in Medicinal Chemistry, West Virginia University, 1991-1999
4) Pharmacy 390-B, Instruments and Techniques, West Virginia University, 1992
5) Chemistry 448, Advanced Physical Chemistry, West Virginia University, 1992
6) Biochemistry 491, Advanced Protein Chemistry and Enzymology, WVU, 1996, 1998
7) Pharmacy 491, Introduction to Molecular Modeling, WVU, 1999
8) Pharmacy 793E, Pharmaceutical Sciences, Bench to Shelf, WVU, 2000-2002
9) Pharmacy 793B, Introduction to Molecular Modeling, WVU, 2001-present
10) Pharmacy 794, Sp. Topics in Medicinal Chemistry, WVU, 1997-present
11) Pharmacy 779, Drug Discovery and Design, 2005
12) Physics 691, Seminar in Nanoscience

C) Graduate students

Student	Degree	Start Date	Graduation Date
Wai-Ming Yau	Ph.D. Pharmacy	1/92	8/96
Deepak Thakkar	Ph.D. Pharmacy	1/92	10/97
Jeannine Harrison	Ph.D. Pharmacy	4/96	5/03
Eva Darian	M.S. Physics	5/98	7/99
Eva Darian	Ph.D. Pharmacy	7/99	08/02
Sue Heavner	Ph.D. Pharmacy	8/97	5/04
Jonathan Daft	Ph.D. Pharmacy	8/98	05/05
Robyn Ayscue	Ph.D. Pharmacy	2/03	04/08
Jarod Kabulski	Ph.D. Pharmacy	1/04	
Vorasit Vongsutilers	Ph.D. Pharmacy	1/05	04/03
John Jett	Ph.D. Pharmacy	4/05	
Lance Wollenberg	Ph.D. Pharmacy	4/06	
Nissa Thomsen	MD/Ph.D. Pharmacy	9/07	
Train, Brian	Ph.D. Pharmacy	5/08	

D) Post-doctoral fellows

Name	Dates of Service
Tushar Sura	1/91-12/93
Padma Tirumalai	8/02-3/04
Y. Gu	8/04-8/06

E) Graduate committees

1) Past (West Virginia University)

Name	Degree Program	Status
Yung-Cheng Chen	M.S. Pharmacy	Member (Grad5/92)
Kim D. Kim	Ph.D. Chemistry	Member (Grad 5/93)
Chen Zhu	Ph.D. Chemistry	Member (Grad 2/94)
Member (Grad 2/94)	Ph.D. Chemistry	Member (Grad 11/94)
Zhongguo Wang	Ph.D. Chemistry	Member (Grad 3/95)
K. Gary Barnette	Ph.D. Pharmacy	Member (Grad 3/95)
Deepa Deshpande	Ph.D. Pharmacy	Member (Grad 4/96)
Sunil Prabhu	Ph.D. Pharmacy	Member (Grad 6/96)
Wai-Ming Yau	Ph.D. Pharmacy	Chair (Grad 8/96)
Chuanyin Ding	M.S. Pharmacy	Member (Grad 12/96)
Sridhar Chittur	Ph.D. Pharmacy	Member (Grad 5/97)
Anna Tarli	Ph.D. Chemistry	Member (Grad 8/97)
Deepak Thakkar	Ph.D. Pharmacy	Chair (Grad 10/97)
Claudius Mundoma	Ph.D. Chemistry	Co-Chair (Grad 5/99)
Eva Darian	M.S. Physics	Co-Chair (Grad 7/99)
Chongsheng Shi	Ph.D. Chemistry	Member (Grad 6/99)
Hai-Ren Zhang	Ph.D. Chemistry	Member (Grad 12/99)
Girish Gudi	Ph.D. Pharmacy	Member (Grad 5/01)
Trisha Scott	Ph.D. Chemistry	Member (Grad 7/01)
Suwei Wang	Ph.D. Pharmacy	Member (Grad 1/01)
Matt Hutzler	Ph.D. Pharmacy	Member (Grad 12/01)
Honghe Wan	Ph.D. Chemistry	Member (Grad 1/02)
Jason Southall	Ph.D. Biochemistry	Member (Grad 5/02)
Oluwarotimi Olojo	Ph.D. Chemistry	Member (Grad 8/02)
Steve Leonard	Ph.D. Pharmacy	Member (Grad 9/02)
Eva Darian	Ph.D. Pharmacy	Chair (Grad 8/02)
Jeannine Powell	Ph.D. Pharmacy	Chair (Grad 5/03)
Zhou Zhang	Ph.D. Pharmacy	Member (Grad 5/03)
Madalina Chirila	Ph.D. Physics	Member (Grad 6/03)
Xiaoling Lu	Ph.D. Chemistry	Member (Grad 5/04)
Madhu Sanga	Ph.D. Pharmacy	Member (Grad 5/04)
Yanzhong Zhang	Ph.D. Chemistry	Member (Grad 5/04)

Jeff Walker	Ph.D. Chemistry	Member (Grad 5/04)
Sue Heavner	Ph.D. Pharmacy	Chair (Grad 5/04)
Jeffrey Wallace	Ph.D. Chemistry	Member (Grad 5/04)
Anna Martirosyan	Ph.D. Biochemistry	Member (Grad 5/04)
Jonathan Daft	Ph.D. Pharmacy	Chair (Grad 5/05)
Spencer Ericksen	Ph.D. Pharmacy	Member (Grad 5/05)
Alan Meyers	Ph.D. Pharmacy	Member (Grad 7/05)
Weixiang Dai	Ph.D. Chemistry	Member (Grad 5/05)
Peter Zehr	Ph.D. Chemistry	Member (Grad 5/05)
Ping Li	Ph.D. Pharmacy	Member (Grad 5/07)
Robyn Ayscue	Ph.D. Pharmacy	Chair (Grad 05/08)
Lily Wang	Ph.D. Chemistry	Member (Grad 8/08)
Daehwan Kim	Ph.D. Chemistry	Member (Grad 8/08)
Jeremiah Hubbard	Ph.D. Chemistry	Member (Grad 12/08)
Vorasit Vongsutilers	Ph.D. Pharmacy	Chair (Grad 05/09)

2) Present (West Virginia University)

Student	Degree Program	Status
Hongbin Li	Ph.D. Chemistry	Member
Li Shi	Ph.D. Chemistry	Member
Hua Yang	Ph.D. Chemistry	Member
Miaosheng Li	Ph.D. Chemistry	Member
Jarod Kabulski	Ph.D. Pharmacy	Chair
Ronald Clawson	Ph.D. Chemistry	Member
Dong Gao	Ph.D. Chemistry	Member
Christopher Dacko	Ph.D. Chemistry	Member
Serge Banini	Ph.D. Chemistry	Member
Yu-Hsuan Wang	Ph.D. Chemistry	Member
John Jett	Ph.D. Pharmacy	Chair
Sobha Gorugantula	Ph.D. Chemistry	Member
Sujata Senqupta	Ph.D. Chemistry	Member
Bo Wen	Ph.D. Chemistry	Member
Lance Wollenberg	Ph.D. Pharmacy	Chair
Nissa Thomsen	Ph.D. Pharmacy	Chair
Swati Sarda Kunduri	Ph.D. CCB (Weed)	Member
Brian Train	Ph.D. Pharmacy	Chair
Tricia Lewis	Ph.D. Immunology (Barnett)	Member
Alysa M Frank	Ph.D. (Chemistry, Holland)	Member

F) Undergraduate Students

Jason Ammons	1992	Vit. B Cancer Marker
Megan Straight	1997-1998	Spin Probe
Sabil Hailu	1999-2000	
Edward M. Johnson, II	1999-2002	Spin Probe Syn
Joshua Campbell	2002-2003	
Robert Deavers	2002-2003	
Andrew Gross	2003	
Nicole MacEwan	2003	
Beth Bailey	2004, 2007	Spin Probe Syn
Michael Frazier	2004	
Sarah Workman	2004	Spin Probe Syn
Mark C. Smith	2004, 2005	Spin Probe Syn
Corey Delaney	2004-2005	DNA synthesis
Jonathan Proto	2006, 2007	Aryl hydrazine adducts
Laura Miller	2006-07	Naproxen-d3 syn
Brooke Adams	2007-08	MD proteins
Greg McKelvey	2007-08	Mod dG and MD

David Schafer	2007	
Nathan Wilson	2008	Modified dG synthesis
Hellen Nditsi	2008	G-Quartet
Kimberly Schrock	2008	Nanobiochips
A Nara….	2008-09	McNair Scholar, cisplatin
	2009	REU Summer Student

COMMITTEE SERVICE

A) Previous Committee Assignments

1) University of Nebraska Medical Center

Committee	Status	Dates of Service
Suggestion Committee	Member	6/87-3/90
Safety Committee	Member	6/88-3/90
Chancellor's Committee on Minority Student Affairs	Member	8/88-3/90
Ad Hoc Computer Utilization	Member	7/89-3/90

2) West Virginia University

Committee	Status	Dates of Service
Curriculum Review (Elective subcommittee)	Member	12/1/90-9/1/91
Accreditation Self-Study Curriculum & Degrees	Member	8/91-2/92
Faculty Campaign	Chair	2/14/90-5/15/91
Faculty Search Committee	Member	5/30/91-3/1/92
Faculty Evaluation Committee	Member	9/91-8/92
Faculty Evaluation Committee	Chair	9/92-8/93
Faculty Evaluation Committee	Chair	9/94-8/95
Douglas Glover Professorship Review	Member	1/95-4/95
Kellogg Initiative, School of Pharmacy Curriculum	Chair	9/6/91-3/95
Research Subcommittee of the Strategic Planning	Member	3/94-9/94
Strategic Planning Committee on Research Subcommittee on Graduate Education	Chair	3/94-9/94
Faculty Evaluation Committee	Member	9/95-12/95
HSC Strategic Planning/SOP Strategic Planning subcommittee on work environment	Chair	10/95
Collaboratories Organizing Committee	Member	10/95-4/96
Graduate Program Guidelines	Chair	10/93-5/96
Ad hoc committee for development of the WVU-SOP WWW home page	Member	10/95-10/96
HSC Faculty Development	Member	9/97
BPS Faculty Search Committee	Member	9/97
Promotion and Tenure Criteria	Member	6/15/95-7/97
Promotion and Tenure Guidelines	Member	3/25/96-7/97
Executive Council Committee (SOP)	Member	1/96-9/97
BPS Department Chairperson Search committee	Chair	8/95-9/2/97
Health Sciences Center Strategic Planning Committee	Member	2/95-10/97
Graduate Admissions	Member	4/90-9/97
Curriculum Design Committee, 1st Year	Member	1/96-11/97
ACPE Accreditation Self-Study Steering Committee	Member	9/96-11/97
ACPE Accreditation Self-Study Faculty and Prof. Staff	Member	9/96-11/97
Biometric Curriculum Committee	Member	3/98-5/99
Assessment committee - Chemical Properties of Drugs Image Analysis Subcommittee	Chair	10/97-9/98
Collaborative Medical Informatics Lab	Member	5/98-4/99
Ad hoc committee on Promotion and Tenure	Chair	9/97-5/02
Recruitment Committee (PharmD/Graduate)	Member	9/97-8/98
Advisory Council to the Office of Sponsored Programs	Member	6/98-5/99

PharmD Assessment Committee - Faculty team for Chemical Properties of Drugs	Chair	4/98-5/99
Ad hoc Committee to Study Computer Needs for the PharmD Curriculum	Member	7/98-6/99
Assesment committee	Member	10/99-2/01
Graduate Research Advisory Committee	Member	09/01-08/02
PSP Departmental Promotion and Tenure	Chair	09/02-8/03
AACP Accreditation Committee - Faculty	Chair	09/02-10/03
HSC Web Advisory Committee	Member	01/02-01/03
01/02-01/03	Member	9/97-08/03
SOP Awards Committee	Member	09/02-8/03
Curriculum Committee	Member	03/03-9/03
BPS Faculty Search Committee	Chair	03/03-9/03
Committee on computing research environment	Member	10/98-9/00
WVU Strategic Planning Committee (IT)	Member	02/05-4/04
Chemistry Search Committee (NMR)	Member	03/05-6/05
Academic & Professional Standards	Chair	09/04-8/05
Chemistry Search Committee (Biophysics)	Member	02/05-8/06
Technology Committee	Member	09/01-09/03
NMR Core Facility Committee	Member	08/03-08/05
WVNano Biophysicist Search Committee	Chair	01/05-08/07
SoP ad hoc Promotion and Tenure Committee	Chair	09/05-08/08
BPS Research Specialist Search Committee	Member	06/07-02/08

B) Current Committee Assignments

Committee	Status	Date of Appointment
School Safety Committee	Chair	12/90
Health Sciences Center Safety Committee	Member	09/93
BPS Dept Computer Support Contact	Member	09/97
WV Nanoscience Initiative	Member	05/03
HSC Graduate Admissions Committee	Member	02/04
HSC Graduate Curriculum Committee	Member	05/04
Graduate Research Advisory Committee	Member	09/04
SoP Promotion and Tenure Guidelines Committee	Chair	09/08
WVNano Executive Committee	Member	07/08