

CURRICULUM VITAE



Stanley Vaughn Smith

Associate Professor

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Place of Birth: Starkville, MS

Marital Status: Married to Anne Louise Smith

Citizenship: United States of America

EDUCATIONAL BACKGROUND:

1983-1987: Mississippi State University
Starkville, MS
B.S., Biochemistry, 1987

1987-1995: The University of Mississippi Medical Center
Jackson, MS
Ph.D., Biochemistry, March 1995.

1995-2002: The National Institutes of Health, Postdoctoral
Fellowships, National Institute of
Musculoskeletal and Skin Diseases, Physical
Biology (1995-1997); The National Cancer
Institute, Molecular Carcinogenesis/Drug
Metabolism (1997-2002).

RESEARCH AND PROFESSIONAL EXPERIENCE:

Research Apprentice, Dr. Robert B. Koch (deceased), Professor, Department of Biochemistry, Mississippi State University. Funded by Army Research Organization Minority Grants during the summers of 1981 - 1984.

Laboratory Technician, Dr. Robert B. Koch (deceased), Professor, Department of Biochemistry, Mississippi State University, 1982 - 1987. Studies on Plant Lipooxygenases and Vertebrate ATPases.

Graduate Assistant, Dr. Steven T. Case, Professor, Department of Biochemistry, The University of Mississippi Medical Center, Jackson, Mississippi, 1987 - 1995, Dissertation: *"Design, Synthesis, and Characterization of rCAS, a Protein Modelled After Repeats in an Insect Silk Protein"*

Research Associate, Dr. Jonathan B. Chaires, Professor, Department of Biochemistry, The University of Mississippi Medical Center, Jackson, Mississippi, March 1995 - August 1995.

Intramural Research Traineeship Award (IRTA) Fellow, Advisor: Dr. Robert Horowitz, Research Biologist, The National Institute of Arthritis and Musculoskeletal and Skin Diseases, Laboratory of Physical Biology, The National Institutes of Health, Bethesda, Maryland, September 1995 - October 1997

IRTA/CRTA (Cancer Research Traineeship Award) Fellow, Advisor: Dr. Fred K. Friedman, Principal Investigator, The National Cancer Institute, Laboratory of Molecular Carcinogenesis/Metabolism, The National Institutes of Health, Bethesda, Maryland, October 1997 - July 2002.

Assistant Professor, The University of Mississippi Medical Center, Department of Pharmacology and Toxicology, Jackson, Mississippi, August 2002 - present.

Proteomics Director, Mass Spectrometry Core Facility (MSCF) UMMC, *ibid*, July 2010 - present.

Director, Mass Spectrometry Core Facility (MSCF) UMMC, *ibid*, July 2014 - present.

Associate Director for Mass Spectrometry Resources and Member of Executive Committee, The Mississippi Center for Heart Research (MCHR), UMMC, *ibid*, October 1, 2015

Associate Professor, The University of Mississippi Medical Center, Department of Pharmacology and Toxicology, Jackson, Mississippi, July 1, 2016 - present.

CURRENT TEACHING/COURSE DIRECTOR RESPONSIBILITIES:

Director, Medical Pharmacology (PH620/PH720), 2016 - present. Currently >80 contact hours per semester including lectures, managing reviews, team-based learning exercises, test preparation, liaisons with class officers and students, exam proctoring, and general course maintenance.

Co-Director, Medical Pharmacology (PH620/PH720), 2015 - 2016. Currently >70 contact hours per semester including lectures, managing reviews, team-based learning exercises, test preparation, liaisons with class officers and students, exam proctoring, and general course maintenance.

Associate Director, Medical Pharmacology (PH620/PH720), 2014 - 2015. 15-20 contact hours per semester including lectures, managing reviews, and team-based learning exercises. Lecturer in course since 2003.

Course Director, Dental Pharmacology/Fundamental Pharmacology (DENT626/PH726), 2011 - present. Currently >35 contact hours per semester including lectures, reviews, clinical correlations, liaisons with class officers/students, and exam proctoring. Lecturer in course since 2004.

Mechanisms of Drug Action: 2-4 hours contact time

Pre-clinical Advisor to Medical Students: 4 - 6 students; 12 -18 hours contact time (Discussion, e-value reports)

TEACHING HONORS/PROFESSIONAL ACTIVITIES

Nelson Order for Teaching Excellence, 2014

Author/Reviewer, Patient-Oriented Problem-Solving System (POPS) in Pharmacology Exercise, Division of Pharmacology Education, American Society for Pharmacology and Experimental Therapeutics (ASPET), 2015.

PREVIOUS TEACHING EXPERIENCE:

Laboratory Teaching Assistant, Graduate Biochemistry Course (BCH 8205), Department of Biochemistry, Mississippi State University, 1982 - 1985.

Lecturer, Summer Introduction to Biochemistry Course for Minority Students, Department of Biochemistry, University of Mississippi Medical Center, 1989-1991.

Lecturer, Medical Pharmacology (PH620), Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2003 - present.

Lecturer, Dental Pharmacology (DENT626), Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2004 - present.

Lecturer/Co-Coordinator, Molecular Toxicology (PHARM 781), Department of Pharmacology, University of Mississippi Medical Center, 2004-2010 (even years), 3 hour Graduate Level Course.

Lecturer, Core Concepts for M1s: Enzyme Kinetics II, University of Mississippi Medical Center, 2005

Lecturer/Co-Coordinator, Molecular Biology (BCH742), Department of Biochemistry, University of Mississippi Medical Center, 2006-2012 (even years).

Co-Director, Mechanisms of Drug Action (PHARM 723), Department of Pharmacology, University of Mississippi Medical Center, 2008 - 2011, 2 hour Graduate Level Course.

Lecturer, Special Topics in Pharmacology for 4th year Medical Students, Department of Pharmacology, University of Mississippi Medical Center, 2008 - 2011, Provided Reviews for M4s on Diabetes/Antidiabetic Drugs and Drug Metabolism/Biotransformation

PROFESSIONAL ACTIVITIES:

American Society for Mass Spectrometry (ASMS)

American Society for Pharmacology and Experimental Therapeutics (ASPET)

American Chemical Society (ACS)

American Association for the Advancement of Science (AAAS)

Mississippi Biophysical Consortium (MBC)

Mississippi Academy of Sciences (MAS):
Lifetime Member

STUDY SECTIONS/REVIEWER:

Ad hoc Member, Minority Programs Review Committee, Subcommittee A (MPRC-A) Study Section, February 15-16th, 2007, National Institute of General Medical Sciences (NIGMS), NIH, Bethesda, MD.

Journal of the Mississippi Academy of Sciences (*Ad hoc*)

Expert Opinions in Drug Metabolism (*Ad hoc*)

Current Drug Metabolism (*Ad hoc*)

Annals of the New York Academy of Sciences (*Ad hoc*)

WORKSHOPS/TRAINING, TEACHING EMPHASIS:

Association of American Medical Colleges (AAMC) Minority Faculty Career Development Seminar, Georgetown University, Washington, DC, September 11-13, 2004.

Alliance for Graduate Education in Mississippi (AGEM) Winter Symposium, Jackson, MS, January 20-22, 2005.

National Board of Medical Examiners (NBME) Test Question Writing Workshop for Basic and Clinical Sciences, School of Medicine, University of Mississippi Medical Center, 2005

American Cancer Society (ACS) Local and National Representatives; Discussion/Research Laboratory Tour, UMMC, August 2007

Interviewed by WJTV News in the Promotion for ``Making Strides against Breast Cancer Walk'', Jackson, MS, August 2007

National Board of Medical Examiners (NBME) Review of Pharmacology Exam, Pharmacology Department, University of Mississippi Medical Center, June 19th, 2012.

National Board of Medical Examiners (NBME) Item Writing Workshop for Basic and Clinical Sciences, School of Medicine, University of Mississippi Medical Center, July 23rd, 2014.

Minority Faculty Professional Development Focus Group, Office of Faculty Affairs, School

of Medicine, University of Mississippi Medical Center, September 10th, 2015.

Dental Schools Addiction Education Summit for SAMHSA Regions III and IV, ADEA Headquarters, Washington, DC, August 29th and 30th, 2017.

WORKSHOPS/TRAINING RESEARCH EMPHASIS:

Population-based Disparities in Cancer Grant Writing Workshop, Jackson Cancer Research Interest Group, University of Mississippi Medical Center, March 15th, 2006

Grantsmanship/Funding Strategy Discussion Session, National Center for Science Resources (NCRR), The National Institutes of Health, February 20th, 2007

QTRAP for Qualitative/Quantative Workflows Training, ABSCIEX Complex, Framingham, MA, May 11-14, 2010.

Global Obesity Summit, The University of Mississippi Medical Center, Jackson, MS, November 9-11, 2010.

QTRAP 5500 Training for Peptide Quant, ABSCIEX Complex, Framingham, MA, August 2 - 5, 2011.

Physiology of Cardiovascular Disease: Gender Disparities, Sponsored by the Women's Health Research Center, The University of Mississippi Medical Center, Jackson, MS October 12-14, 2011.

Proteomics Training for Q-Exactive Plus, provided by ThermoFisher, Inc., UMMC Department of Physiology, January 21-23, 2014.

INVITED SEMINARS AND PRESENTATIONS:

- Mississippi State University, Department of Biochemistry, 1995.
- Gordon Research Conference, Drug Metabolism Section, July, 1998, Holderness, NH
- The University of Kentucky, Division of Pharmaceutical Sciences, College of Pharmacy, January 22nd, 2002.
- The University of Mississippi Medical Center, Department of Pharmacology and Toxicology, March 18th, 2002.

- The University of Mississippi Medical Center, Department of Biochemistry, October 31st, 2002.
- Mississippi State University, Department of Biochemistry, April 9th, 2003.
- The University of Southern Mississippi, Department of Biological Sciences, April 30th, 2003.
- Tougaloo College, Department of Biology, October 27th, 2003.
- Jackson State University, Department of Chemistry, November 14th, 2003.
- Mississippi Functional Genomics Network (MFGN) Session at the Mississippi Academy of Sciences, Biloxi, MS, February 20th, 2004.
- Baker Donelson Law Firm, Jackson, MS, July 24, 2004
- Jackson Cancer Research Interest Group (JCRIG), The University of Mississippi Medical Center, Jackson, MS, August 26th, 2004
- Alliance for Graduate Education in Mississippi (AGEM) Symposium, Jackson State University e-Learning Center, January 21st, 2005.
- American Cancer Society ``Relay for Life`` in Simpson County, MS 2005
- American Cancer Society ``Walk for the Cure`` Breakfast, Jackson, MS August 2006
- American Cancer Society ``Walk for the Cure`` Breakfast, Jackson, MS August 2007.
- Mississippi Biophysical Consortium, Oxford, MS May 23rd, 2008.
- Increasing Minority Access to Education (IMAGE) Awards Banquet for The Louis Stokes Mississippi Alliance for Minority Participation, The University of Southern Mississippi, Hattiesburg, MS, April 24, 2013.
- The University of Mississippi Medical Center, Department of Biochemistry, April 1st, 2014.

COMMITTEE RESPONSIBILITIES:

Pharmacology Faculty Representative, Breakfast with Liaison Committee on Medical Education (LCME) during UMMC site visit, October, 2003.

Microbiology Chair Search Committee, 2003 - 2004

Member of the Multi-Cultural Enhancement Strategic Planning Subcommittee, 2006.

UMC Voluntary Health Agency Steering Committee
representing the School of Graduate Studies in
the Health Sciences, 2006

Graduate Faculty Member, The School of Graduate
Studies, The University of Mississippi Medical
Center, January, 2007.

Thesis Advisor: Ms. Stephanie M. Burks, 2007-2010.
received Master's degree (2009).

Thesis Committee Member:

Dr. John K. Smith, Pharmacology
Department, Ph.D. conferred May 2008.

Dr. Sooim Shin, Biochemistry Department,
Ph.D. conferred May 2011.

Ms. Aruna Rawat, Biochemistry
Department, received Master's degree
(2010)

Ms. Valeria Zai-Rose, Biochemistry
Department, 2014-current, Doctoral
Candidate.

Dr. Edward A. Townsend, Neuroscience
Program, 2014-2017, Ph.D. conferred 2017.

Ms. Sonja Dragojevich, Biochemistry
Department, 2017 - current.

Institutional Animal Care and Use Committee (IACUC)
Member: 2007 - 2010

Dental Admissions Committee Member (Interviewer):
2007 - 2010

Publicity Chairperson, Mississippi Academy of
Sciences, 2008 - 2009.

Pharmacology Department Representative,
UMMC/Mississippi Blood Services Blood Drive, 2008
- 2010

**Pharmacology Department Graduate Admissions
Committee**, 2007 - 2010

**Pharmacology Department, Professional Education
Committee**, 2009 - present

Co-Chairperson, Mississippi Academy of Sciences Health Sciences Division, 2009 - 2010.

Member of the Board of Directors, Mississippi Academy of Sciences, 2009 - 2014.

Basic Sciences/Research Recruitment Coordinator, UMMC/Mississippi Blood Services Blood Drive, 2009 - 2010

Member of Pharmacology Faculty Search Committee, 2009 - 2015.

President-Elect, Mississippi Academy of Sciences (2012)

President, Mississippi Academy of Sciences (2013-2014)

Student Evaluation and Promotion Committee, School of Dentistry, (2012 - 2014).

Self-Study Committee for Evaluation of the Department of Pharmacology and Toxicology, 2013

Curriculum Committee, School of Dentistry (2014-present)

Search/Advisory Committee for Dean of Admissions, School of Dentistry, 2014.

Dental Admissions Committee (Application Screener) 2014 - present

Coordinator for UMMC Pharmacology Department Website Update and Maintenance, 2014 - present.

Continuous Quality Improvement (CQI) Subcommittee, School of Medicine, UMMC, 7/1/2015 - present.

Medical Neuroscience Curriculum Development Subcommittee, October 9th, 2015 - present

Institutional Climate Workgroup, Member, UMMC, 2016 - 2017.

Vice-Chancellor's Diversity Advisory Council, Member, UMMC, 2017 - present.

STUDENT MENTORING/TRAINING:

Mentor for Army Research Organization Summer Apprentices, Department of Biochemistry, Mississippi State University.

Summer of 1985: Ms. Joyce Wade; Senior,
Starkville High School, Starkville, MS

Summer of 1986: Mr. Michael Purnell; *ibid.*

Summer of 1987: Mr. Anthony Burke; *ibid.*

Young Black Men with Promise Mentoring Program, Volunteer Mentor, Highland View Elementary

School, Silver Spring, Maryland, 2000-2002.

Students: Mr. Jeremy Burgess

Mr. Dayne Bolt

Mentor for Minority Access to Research Careers (MARC) Scholar:

Ms. Patrice Miller, Tougaloo College,
2002-2003.

Mentor for Mississippi Functional Genomics Network Research Experience Opportunity and Idea Network of Biomedical Research Scholars:

2003-2015 (13 awardees total)

Delta State University-3 awardees

Ms. Jessica Revell (2004)

Ms. Jodie Reese (2004)

Ms. Heather Hilderbrand (2005)

Tougaloo College - 9 awardees

Ms. Juliette Sandifer (2003-2005)

Ms. Bianca Clark (2005)

Ms. Keila Brown (2006)

Mr. Alfred Junior, III (2007)

Ms. Kiara Richardson (2008)

Ms. Treniece Perry (2007-2008)

Ms. Brittany Brown (2009)

Mr. Terrance Rush (2009)

Ms. Trianna Humphrey (2015)

Alcorn State University - 1 awardee

Ms. Latoya Brantley (2015)

Mentor for Base Pair Program Scholars:

2004-2006: Mr. Jonathan Priester, Murray H.S.
High School, Jackson, MS

2007-2009: Ms. Ashley Trussell, *ibid.*

2009-2011: Ms. Britany Cavett, *ibid.*

2011-2013: Ms. Arielle Wallace, *ibid.*

Mentor for UMMC Summer Undergraduate Research Experience (SURE) Awardees:

Ms. Antrice Walker, Tougaloo College (2008)
Ms. Rhiannon K. Rowe, Univ. of Miss. (2012-2013)

**Supervised and Trained in Mass Spectrometry, Proteomics,
Sample Preparation, and Data Analysis**

Ms. Sang Won Park, Ph.D. Candidate, 2011-2012
Ms. Yoko Kojima, Visiting Research Scientist, 2012-
2013
Dr. Tomoko Muroya, Visiting Physician, 2013-2014

OUTREACH:

Science Fair Judge; Albert Einstein High School,
Silver Spring Maryland, 2001-2002.

Science Fair Judge; Montgomery Blair High School, Silver
Spring, Maryland, 2001-2002.

Science Fair Judge; Power Academic and Performing Arts
Complex, Jackson, MS

Judge, Computer Science poster category, Alliance for
Graduate Education in Mississippi (AGEM) Winter
Symposium, January 20th-22nd, 2005.

Judge, School of Health Related Professions (SHRP)
Research Day, 2005 - 2011.

Judge, School of Graduate Studies Research Day, 2008 and
2014

HONORS AND AWARDS/OTHER:

National Honor Society, Starkville High School, Starkville,
MS 1982-1983

National Merit Semifinalist/National Achievement Finalist,
Starkville High School, Starkville, MS, 1982-1983

Fisher Biotechnology Award for Best Graduate Student
Presentation, Mississippi Academy of Sciences, Division of
Cellular, Molecular, and Developmental Biology, February
1990

Fisher Biotechnology Award for Best Graduate Student
Presentation, Mississippi Academy of Sciences, Division of
Cellular, Molecular, and Developmental Biology, February
1991

Black History Month Honoree, Longview First Baptist
Missionary Baptist Church, Starkville, MS, March 1995.

**Mississippi Functional Genomics Network (MFGN) Featured
Scientist,** July 11th, 2003.

Honoree for Contributions to the Positive Advancement of Diversity by the Black History Month Committee of the State Institutions of Higher Learning (IHL) Board of Trustees, February 2007.

EXPERIMENTAL TECHNIQUES/RESEARCH INTERESTS:

Cloning, Sequencing, and Characterization of Genes
Bacterial and Insect Cell Expression Systems
Protein Purification/Biochemistry/Physical Biochemistry
Laser Photolysis and other Absorbance/Fluorescence Methods
Pharmacokinetics and Pharmacodynamics
Proteomics/Peptidomics/Lipidomics/Metabolomics
Mass Spectrometry: Methods, Data Collection and Analysis
Alcohol/Drug-Induced Hepatotoxicity Mechanisms
Characterization of Biomarkers in Human Illness/Disease

RESEARCH FUNDING/SUPPORT:

Mississippi Center of Excellence in Perinatal Research

1P20GM121334-01

PI: Dr. Jane Reckelhoff

SV Smith Role: Mass Spectrometry Core Support (5% effort)

Project Period: June 2017 - May 2022.

Role of microRNA-21 in acetaminophen-induced acute liver failure

R21DK113500

PI: Damian G. Romero, PhD; **SV Smith, Co-Investigator**

Project Period: 04/01/2017 - 03/31/2020

Cardiorenal and Metabolic Diseases Research Center

Type: COBRE

PI: Dr. John E. Hall

SV Smith Role: Core B Mass Spectrometry Support

Project Period: August 2013 - July 2018.

Development of novel combinatorial treatment to prevent chemotherapeutic resistance and enhance efficacy of riluzole in a rodent model of SCI.

Type: DOD

PI: Dr. Raymond J. Grill; **SV Smith, Co-Investigator** (10% Salary, Mass Spectrometry Core Support)

Project Period: 10/1/2015 - 9/30/2017

Sildenafil for the Treatment of Delayed Cerebral Ischemia Following Subarachnoid Hemorrhage.

Type: Intramural Research Support Program (IRSP)

PI: Dr. Chad Washington; **SV Smith Co-Investigator**

Completed Research Support

Genomics and Lipidomics of CYP Eicosanoids in Kidney Disease in African-Americans

Type: UMC Intramural Research Support Program (IRSP); \$30,000

Role: Co-Investigator (PI is Dr. Albert W. Dreisbach, MD)

Project Period: May 1, 2011 - April 30, 2012

Structure/Function Relationships in the Breast Cancer Molecular Target Aromatase

Type: American Cancer Society (ACS) Institutional Research Grant

Role: Principal Investigator

Project Period: July 1, 2003 - June 30th, 2004

HPLC Purification and Characterization of Hepatic Cytochrome P450 Isoforms

Type: Mississippi Functional Genomics Network Small Instrumentation Grant

Role: Principal Investigator

Project Period: October 1, 2003 - September 30th, 2004

PUBLICATIONS AND BOOK CHAPTERS:

1. Koch, R. B., **Smith, S.**, and Glick, B. (1991) Effects of several selected odorants on the sodium- and potassium-dependent adenosine triphosphatase activities of two different chicken olfactory tuberinals., *Poult. Sci.* 70, 1269-1272.
2. **Smith, S. V.** and Case, S. T. (1993) Over-expression of a core repeat from an insect silk protein that forms intramolecular disulfide bonds., in *Biomolecular Materials* (Viney, C., Case, S. T., and Waite, J. H., Eds.) pp 93-98, Materials Research Society Press, Pittsburgh, PA ISBN: 1-55899-187-5.
3. Case, S. T. and **Smith, S. V.** (1994) Synthetic and recombinant domains from a midge's giant silk protein: Role of disulfide bonds., in *Silk Polymers: Materials Science and Biotechnology* (Kaplan, D., Adams, W. W., Farmer, B., and Viney, C., Eds.) pp 91-97, American Chemical Society Press, Washington, DC ISBN: 0-8412-2743-8.
4. Case, S. T., **Smith, S. V.**, and Bratton, M. R. (1994) Disulfide bonds in recombinant repeat units from an aquatic insect's silk protein., in *Biomolecular Materials by Design* (Alper, M., Bayley, H., Kaplan, D., and Navia, M., Eds.) pp 31-36, Materials Research Society Press, Pittsburgh, PA ISBN: 1-55899-229-4.

5. **Smith, S. V.**, Correia, J. J., and Case, S. T. (1995) Disulfide bonds in a recombinant protein modeled after a core repeat in an aquatic insect's silk protein., *Protein Sci.* 4, 945-954.
6. Omata, Y., Dai, R., **Smith, S. V.**, Robinson, R. C., and Friedman, F. K. (2000) Synthetic peptide mimics of a predicted topographical interaction surface: the cytochrome P450 2B1 recognition domain for NADPH-cytochrome P450 reductase, *J. Protein Chem.* 19, 23-32.
7. **Smith, S. V.**, Koley, A. P., Dai, R., Robinson, R. C., Leong, H., Markowitz, A., and Friedman, F. K. (2000) Conformational modulation of human cytochrome P450 2E1 by ethanol and other substrates: a CO flash photolysis study, *Biochemistry* 39, 5731-5737.
8. Piro, M. C., Militello, V., Leone, M., Gryczynski, Z., **Smith, S. V.**, Brinigar, W. S., Cupane, A., Friedman, F. K., and Fronticelli, C. (2001) Heme pocket disorder in myoglobin: reversal by acid-induced soft refolding, *Biochemistry* 40, 11841-11850.
9. **Smith, S. V.**, Robinson, R. C., Smith, T. G., Burks, S. M., and Friedman, F. K. (2006) Rapid conformational dynamics of cytochrome P450 2E1 in a natural biological membrane environment., *Biochemistry* 45, 15617-15623. (*Biochemistry* "Hot Article" for January 2007).
10. Kyle, P.B., **Smith, S.V.**, Baker, R.C. and Kramer, R.E. (2012). Mass spectrometric detection of CYP450 adducts following oxidative desulfuration of methyl parathion, *J. Applied Toxicol* Jan 23. doi: 10.1002/jat.1792. PMID: 22271348 [Epub ahead of print]
11. Dreisbach, A.W., **Smith, S.V.**, Kyle, P.B., Ramaiah, M., Amenuke, M., Garrett, M.J., Lirette, S.T., Griswold, M.E., and Roman, R.J. (2014). Urinary CYP Eicosanoid Excretion Correlates with Glomerular Filtration in African-Americans with Chronic Kidney Disease, *Prostaglandins Other Lipid Mediat. Prostaglandins Other Lipid Mediat.*, Aug 21. pii: S1098-8823(14)00033-1. doi: 10.1016/j.prostaglandins.2014.08.002. [Epub ahead of print] PMID: 25151892 [PubMed - as supplied by publisher]
12. Fan, F., Geurts, A.M., Pabbidi, M.R., **Smith, S.V.**, Harder, D.R., Jacob, H., and Roman, R.J. (2014). Zinc-finger nuclease knockout of dual-specificity protein phosphatase-5

enhances the myogenic response and autoregulation of cerebral blood flow in FHH.1.BN rats., *PLoS One*, 9(11):e112878

13. Lindsey ML, Gomes AY, **Smith SV**, de Castro Bras LE. *How to Design a Cardiovascular Proteomics Experiment*, p. 33-57. In: Agnetti G, Lindsey ML, and Foster DB, editors. *Manual of Cardiovascular Proteomics*. New York: Springer Berlin Heidelberg; 2016 (ISBN 978-3-319-31828-4).
14. Poole, A.R., Enwerem, I.I., Vicino, I.A., Coole, J.B., **Smith, S.V.**, and Hebert, M.D. (2016). Identification of processing elements and interactors implicate SMN, coilin and the pseudogene-encoded coilp1 in telomerase and box C/D scaRNP biogenesis, *RNA Biology*, 13(10): 955 - 972.

MEETING ABSTRACTS:

1. **Smith, S.V.**, Glick, B., and Koch, R.B. (1985) Chicken ATPase Activities from Five Different Chicken Tissue Preparations. *J. Mississippi Academy of Sciences*, 30:20.
2. Koch, R.B. and **Smith, S.V.** (1987) Purification and Comparison of Lipxygenase Enzymes: Properties and Activities from Five Different Legume and Corn Seeds. *J. Mississippi Academy of Sciences*, 32:17.
3. Koch, R.B., Glick, B., and **Smith, S.V.** (1988) Comparison of the Effects of Odorants and Amino Sugars on the ATPase Activities of Chicken Olfactory and Chicken Brain Preparations. *J. Mississippi Academy of Sciences*, 33:19.
4. **Smith, S.V.** and Case, S.T. (1992) High-Level Expression in *E. coli* of a Recombinant Core Repeat from a *Chironomus tentans* Secretory Protein. *J. Mississippi Academy of Sciences*, 37:30.
5. **Smith, S.V.** and Case, S.T. (1994) Evidence for Intramolecular Disulfide Bonds in a Recombinant spIa Core Repeat Protein from *Chironomus tentans*. *J. Mississippi Academy of Sciences*, 39:33.
6. **Smith, S.V.** and Case, S.T. (1995) Disulfide Bonds in a Recombinant Repeat From an Aquatic Insect's Silk Protein. *Biophys. J.*, 68:A342.
7. **Smith, S.V.**, Robinson, R.C., Koley, A.P., Dai, R., and Friedman, F.K. (1999) Effects of Ethanol and Other Substrates on the Conformation and Dynamics of Cytochrome P450 2E1. *Biophys. J.*, 76:A119.

8. Fronticelli, C., Piro, C., Karavitis, M., Arosio, D., **Smith, S.V.**, Friedman, F.K. and Brinigar, W.S. (2000) Conformational and Functional Relevance of the COO-Terminal Residues in Sperm Whale Myoglobin. *Biophys. J.*, 78:A281.
9. Robinson, R.C., Friedman, F.K., and **Smith, S.V.** (2001) Unique Conformational Ensembles of Different Human Cytochromes P450. *Biophys. J.*, 80:A403-404.
10. Sandifer, J. Bishop, G.R., and **Smith, S.V.** (2004) Optical Difference Spectroscopy to Measure Binding of Warfarin Enantiomers to Cytochrome P450 3A4. *J. Mississippi Academy of Sciences*, 49(1):27.
11. Priester, J. and **Smith, S.V.** (2005). Using Difference Spectroscopy to Investigate the Interactions of Selected Inhibitors with the Breast Cancer Molecular Target Cytochrome P450 Aromatase. *J. Mississippi Academy of Sciences*, 50(1):45.
12. Priester, J., and **Smith, S.V.** (2006). Ligand Binding Properties of the Breast Cancer Molecular Target Aromatase. *J. Mississippi Academy of Sciences*, 51(1):35.
13. Hilderbrand, H.J., Smith, T.G., and **Smith, S.V.** (2006) The Effects of Several Selected Breast Cancer Drugs on Aromatase Activity. *J. Mississippi Academy of Sciences*, 51(1):43.
14. Brown, K., **Smith, S.**, Levison, V., Purser, C.A., Smith, T.G., and Baker, R.C. (2007) Hepatic Cytochrome P450 Activity in a Zebrafish Alcoholic Liver Disease Model. *J. Mississippi Academy of Sciences*, 52(1):54-55.
15. Levison, V.L., Baker, R.C., Brown, K., **Smith, S.V.**, Purser, C.A., Smith, T.G., and Tucci, M. (2007) Development of a Model for Alcoholic Liver Disease. *J. Mississippi Academy of Sciences*, 52(1):104.
16. Burks, S.M., Levison, V., Knight, E., Baker, R.C., and **Smith, S.V.** (2008). Pharmacological Effects of Ethanol and Other Drugs on Zebrafish. *SEPS 28th Annual Meeting*, 50(1):67-68.
17. Harvey, K.L., Trussell, A.N., **Smith, S.V.**, and Wellman (2009) Purification and Reconstitution of Bacterially Expressed Aromatase. *J. Mississippi Academy of Sciences*, 54(1):37.
18. Love, J.A., Smith, T.G., Freeman, M.L., Yoder, Z.J., Purser, C.A., Burks, S.M., Couch, D.B., **Smith, S.V.**, and Baker, R.C. (2009) A Zebrafish Model of Short- and Long-Term Ethanol Exposure. *J. Mississippi Academy of Sciences*, 54(1):67.
19. Richardson, K., Walker, A., Burks, S., Baker, R., and **Smith, S.** (2009). Effects of Binge and Chronic Alcohol Exposure on

Zebrafish Grouping Behavior. *J. Mississippi Academy of Sciences*, 54(1):79.

20. Rush, T., Brown, B., Purser, C., and **Smith, S.** (2010). *In Vitro* Metabolomics of the Breast Cancer Drug Tamoxifen. *J. Mississippi Academy of Sciences*, 55(1):90.

21. Burks, S. and **Smith, S.** (2010). Probing Cytochrome P450s: Insights into Conformational Dynamics Using Laser Flash Photolysis. *J. Mississippi Academy of Sciences*, 55(1):90.

22. Dreisbach, A., **Smith, S.V.**, Kyle, P.B., Ramaiah, M., Garrett, M.R., Amenuke, M., Griswold, M.E., and Roman, R.J. (2012) Urinary CYP Eicosanoid Excretion Correlates with Glomerular Filtration in African-Americans with Chronic Kidney Disease. *Hypertension*, 60:A348.