

BIOGRAPHICAL SKETCH

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|--|---------------------------------------|-----------|---------------------|
| NAME Jeffrey Shawn Goodwin | POSITION TITLE Assistant Professor | | |
| eRA COMMONS USER NAME JSGOODWIN | | | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | YEAR(s) | FIELD OF STUDY |
| Millsaps College, Jackson, MS | B.S. | 1993-1997 | Chemistry |
| University of Southern Mississippi, Hattiesburg, MS | Ph.D. | 1997-2002 | Biochemistry |
| Vanderbilt University Medical Center, Nashville, TN | Postdoctoral | 2002-2005 | Cellular biophysics |

A. Positions and Honors.**Positions and Honors:****Research and professional experience:**

- 1997-1998 Graduate Teaching Assistant, General Chemistry Laboratory, Department of Chemistry and Biochemistry, The University of Southern Mississippi, Hattiesburg, MS.
- 1998-2001 Graduate Research Assistant, Sequestration of hydrophobic liquids by SC3, Departments of Polymer Science and Chemistry and Biochemistry, The University of Southern Mississippi, Hattiesburg, MS.
- 2001-2002 Graduate Teaching Assistant, Biochemistry Laboratory II and Chemistry for Non-majors, Department of Chemistry and Biochemistry, The University of Southern Mississippi, Hattiesburg, MS.
- 2002-2005 Postdoctoral Research Fellow in the laboratory of Dr. Anne Kenworthy, Department of Molecular Physiology and Biophysics, Vanderbilt University Medical Center.
- 2005-2006 Research Specialist Senior, Cell Imaging Shared Resource, Vanderbilt University Medical Center, Nashville, TN
- 2006-present Assistant Professor of Cancer Biology, Meharry Medical College, Nashville, TN
- 2006-present Director of Morphology Core, Meharry Medical College, Nashville, TN

Honors, awards and professional society membership:**Undergraduate:**

Magna Cum Laude, American Chemical Society Affiliate member, Sigma Xi Scientific Honor Society; Chi Chi-chemistry honorary, Beta Beta Beta-biological honorary, Sigma Lambda-service and scholastic honorary, Alpha Epsilon Delta-health and premedical honorary, Phi Eta Sigma-scholastic honorary.

Graduate School/ Professional:

- 1998-2002 Mississippi Academy of Science
- 1999-present American Chemical Society
- 2000-present Biophysical Society
- 2006-present Society for Neuroscience

B. Selected peer-reviewed publications (in chronological order).

1. Cannon, Gordon, **Shawn Goodwin**, Paul Stroud, Gregory Martin, and Charles McCormick, (1999) Proteins as Amphipathic Biopolymeric Materials, *Polym. Prepr.*, **40**, 211.
2. Stroud, Paul A., **Shawn Goodwin**, Gregory G. Martin, Johanna M. Kahalley, Mark Logan, Charles L. McCormick, and Gordon C. Cannon (2001) Proteins as Amphipathic Biopolymeric Materials, *Stimuli-*

Responsive Water Soluble and Amphiphilic Polymers, ACS Symposium Series 780, 267-276, Washington, D.C.: American Chemical Society.

3. Butko, Peter, Justin P. Buford, **J. Shawn Goodwin**, Paul A. Stroud, Charles L. McCormick, and Gordon C. Cannon (2001) Spectroscopic evidence for amyloid-like interfacial self-assembly of the hydrophobin Sc3, *Biochem. Biophys. Res. Commun.*, **280**, 212-215.

4. Stroud, Paul A., **J. Shawn Goodwin**, Peter Butko, Charles L. McCormick, and Gordon C. Cannon, (2003) Experimental evidence for multiple assembled states of Sc3 from *Schizophyllum commune*, *Biomacromolecules*, **4**, 956-67.

5. **Goodwin, J. Shawn**, Kimberly R. Drake, Carl Rogers, Vi K. Chiu, Jennifer Lippincott-Schwartz, Mark R. Philips, Anne K. Kenworthy (2005) Depalmitoylated Ras traffics to and from the Golgi complex via a non-vesicular pathway, *Journal of Cell Biology*, **170**, 261-272.

6. **Goodwin, J. Shawn**, Kimberly R. Drake, Catha L. Remmert, Anne K. Kenworthy (2005) Ras diffusion is sensitive to plasma membrane viscosity, *Biophysical Journal*, **89**, 1398-1410.

7. **Goodwin, J. Shawn** and Anne K. Kenworthy (2005) Photobleaching approaches to investigate diffusional mobility and trafficking of Ras in living cells, *Methods*, **37**, 154-164.

8. Brown, La'Nissa A., Habibeh Khoubouei, **J. Shawn Goodwin**, Charletha V. Irvin-Wilson, Aramandla Ramesh, Liu Sheng, Monique M. McCallister, George C. T. Jiang, Michael Aschner, and Darryl B. Hood (2007) Down-regulation of Early Ionotropic Glutamate Receptor Subunit Developmental Expression as a Mechanism for the Observed Plasticity Deficits Following Gestational Exposure to Benzo(a)pyrene Neurotoxicology, *Neurotoxicology*, **28(5)**, 965-978.

9. Wu, DongFang, Chakradhari Sharan, Hong Yang, **J. Shawn Goodwin**, Lichun Zhou, Gregory A. Grabowski, and ZhongMao Guo (2007) Apolipoprotein E-deficient lipoproteins induce foam cell formation by downregulation of lysosomal hydrolases in macrophages, *J. Lipid Res.*, **48(12)**, 2571-2578.

10. Ding, Yun, Li Zhang, **J. Shawn Goodwin**, Ziqing Wang, Bingdong Liu, Jingwu Zhang, Guo-Huang Fan (2008) Plectin regulates the signaling and trafficking of the HIV-1 co-receptor CXCR4 and plays a role in HIV-1 infection, *Exp Cell Res.*, **314**: 590-602.

11. DongFang Wu, Hong Yang, YanFeng Zhao, Chakradhari Sharan, **J. Shawn Goodwin**, Lichun Zhou, Yang Guo and ZhongMao Guo (2008) 2-Aminopurine inhibits apolipoprotein E-deficient lipoprotein-induced foam cell formation, *J Pharmacol Exp Ther*, **326(2)**: 395-405.

12. Ding, Yun, Aimin Qiao, Ziqing Wang, **J. Shawn Goodwin**, Eun-Sook Lee, Michelle L. Block, Matthew Allsbrook, Michael McDonald, and Guo-Huang Fan (2008) Retinoic Acid Attenuates beta-Amyloid Deposition and Rescues Memory Deficits in an Alzheimer Disease Transgenic Mouse Model, *J Neurosci*, Nov 5;**28(45)**:11622-34.

13. **Goodwin, J. Shawn**, Namita Sen, Jonathan A. Javitch, Louis J. DeFelice, Habibeh Khoshbouei (2009) *In vitro* and *in vivo* studies reveal differential effects of methamphetamine and amphetamine on dopamine transporter functions, *J Biol Chem*. Jan 30;**284(5)**:2978-89.

14. Mines, Marjelo A., **J. Shawn Goodwin**, Lee E. Limbird, Fei-Fei Cui, Guo-Huang Fan (2009) Deubiquitination of CXCR4 by USP14 is critical for both CXCL12-induced CXCR4 degradation and chemotaxis but not ERK activation, *J Biol Chem*. Feb 27;**284(9)**:5742-52.

C. Research Support

Ongoing Research Support:

5U54NS041071 (Rucker) PI

09/30/2006-08/31/2011

NIH/NINDS

SNRP Project at Meharry Medical College.

Role: Core Managing Director

The goal of this project is to achieve excellence in brain and behavioral research from bench to bedside, synergistically engaging institutional resources and extramural funding for research and training.

Pending:

S10RR025497 (Goodwin) PI

04/01/2010-03/31/2011

NIH/NCRR

Live-cell imaging confocal microscope

Completed: