Biographical Sketch

Senior Personnel

Antonie H. Rice	Chairperson	Department of Chemistry & Physics
	Associate Professor	University of Arkansas at Pine Bluff

(a) Professional Preparation

Institution and Location	Major	Degree and Year
University of Arkansas at Pine Bluff	Chemistry	B.S.- 1996
University of Kansas, Lawrence, KS	Pharmaceutical Chemistry	M.S.- 1999
University of Kansas, Lawrence, KS	Pharmaceutical Chemistry	PhD – 2002

(b) Appointments

2008-present Chair, University of Arkansas at Pine Bluff, Department of Chemistry and Physics
2006-2008 Associate Professor of Chemistry, University of Arkansas at Pine Bluff
2002-2006 Assistant Professor of Chemistry, University of Arkansas at Pine Bluff

(c) Publications

1. **Rice, Antonie**, Silverstein, P., Audus, K.L., Brain Microvessel Endothelial Cell Cultures as In Vitro Models to Study the Blood-Brain Barrier. Blood-Spinal and Brain Barriers in Health and Diseases (Sharma, H.S., Editor), Academic Press, New York, 2002.
2. **Rice, Antonie**, Michaelis,M.L., Georg, G., Liu, Y., Turunen, B., Audus, K.L., Overcoming the blood-brain barrier to taxane delivery for neurodegenerative diseases and brain tumors." Journal of Mol. Neuroscience, Jan.1, 2003; 20(3): 339-43.
3. **Rice, Antonie**, Liu, Y., Michaelis, M.L., Himes, R.H., Georg, G.I., Audus, K.L., Chemical Modification of Paclitaxel (Taxol) Reduces P-glycoprotein Interactions and Increases Permeation across the Blood-Brain Barrier in Vitro and in Situ. Journal of Med. Chemistry, 48, 832-838, 2005.
4. Michaelis, M.L., Chen, Y. Georg, G., **Rice,A**., Audus, K.L., Amyloid Peptide Toxicity and Microtubule-Stabilizing Drugs. Journal of Molecular Neuroscience, 19(1-2), 101-105, 2002.
5. Spletstoser, J. Turunen, B., Desino, K., **Rice, A**., et al., Single-site Chemical Modification at C10 of the baccatin III core of Paclitaxel and Taxol C reduces P-glycoprotein interactions in Bovine Brain Microvessel Endothelial Cells. Bioorganic & Medicinal Chemistry Letters, 16, 495-498, 2006.

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(d) Synergisitc Activities

- **<u>Principal Investigator (2005-present)</u>: NIH Arkansas IDeA Networks of Biomedical Research Excellence (INBRE) Research Grant.** This is a 5-year research grant funded by NIH in collaboration with University of Arkansas for Medical Sciences. Goal of project is enhance the research capacity of institutions through collaborative partnerships, the development of areas of potential research, staff development, and access to research resources, so they can participate more fully in the competition for NIH awards; and provide research support to faculty and undergraduate students, to build a "pipeline" toward health research careers, and to provide hands-on research experience to students at undergraduate institutions.

(e) Honors

1994-1995	Russell T. Bennett Scholarship
1994-1996	MARC Scholarship
1996-1998	Biotechnology Training Grant
1996-1999	Merck Fellowship
1998-2001	AFPE Predoctoral Fellowship
2001-2002	NIH Supplemental Training Grant
Summer 2004	BRIN/INBRE Summer Research Fellowship
Summer 2005	STEM Summer Faculty Fellowship
2005-present	NIH INBRE Research Grant
2007	INBRE Instrument Grant

(f) Collaborators

Dr. Steven Barger- Associate Professor of Geriatrics, University of Arkansas for Medical Sciences

Dr. Howard Hendrickson- Assistant Professor in Department of Pharmaceutical Sciences, University of Arkansas for Medical Sciences

Dr. Paul Adams- Assistant Professor of Chemistry, University of Arkansas at Fayetteville

Dr. Alvin Holder- Assistant Professor of Chemistry, University of Southern Mississippi

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