

STEPHEN A. WOSKI

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Education:

Emory University	Chemistry	B.S.	1986
The University of Michigan	Chemistry	M.S.	1988
The University of Michigan	Chemistry	Ph.D.	1991
California Institute of Technology	Bioorganic Chemistry	postdoc	1991-1994

Employment:

2008-present	<i>Director of Graduate Studies</i> Department of Chemistry, University of Alabama, Tuscaloosa, AL
2000-present	<i>Associate Professor</i> Department of Chemistry, University of Alabama, Tuscaloosa, AL.
1994-2000	<i>Assistant Professor</i> Department of Chemistry, University of Alabama, Tuscaloosa, AL.
1991-1994	<i>NIH Postdoctoral Research Fellow,</i> California Institute of Technology, Pasadena, CA.

Graduate Advisor: Masato Koreeda, The University of Michigan.

Postdoctoral Supervisor: Professor Peter B. Dervan, California Institute of Technology.

Selected Publications (from 18 total, 33 presentations, and 9 invited talks):

- K. F. McKinnon, D. F. Qualley, and S. A. Woski, "Polycyclic Aromatic Hydrocarbons as Universal Bases in Peptide Nucleic Acids", *Tetrahedron Lett.* **48**: 8074-8077 (2007).
- A. Honciuc, A. Otsuka, Y.-H. Wang, S. K. McElwee, S. A. Woski, G. Saito, and R. M. Metzger. "Polarization of Charge-Transfer Bands and Rectification in Hexadecylquinolinium 7,7,8-Tricyanoquinodimethanide and its Tetrafluoro Analog", *J. Phys. Chem.* **B110**: 15085-15093 (2006).
- J. B. Vincent and S. A. Woski, "Cytochrome c: A Biochemistry Laboratory." *J. Chem. Ed.* **82**: 1211-1214 (2005).
- D. D. D. Hepburn, J. M. Burney, S. A. Woski, and J. B. Vincent. "The Nutritional Supplement Chromium Picolinate Generates Oxidative DNA Damage and Peroxidized Lipids *in vivo*." *Polyhedron* **22**: 455-463 (2003).
- K. A. Frey and S. A. Woski, "Fluoroaromatic Universal Bases in Peptide Nucleic Acids," *Chem. Commun.* 2206-2207 (2002).
- Y. Sun, J. Ramirez, S. A. Woski, and J. B. Vincent, "The Binding of Trivalent Chromium to Low-Molecular-Weight Chromium-Binding Substance (LMWCr) and the Transfer of Chromium from Transferrin and Cr(pic)₃ to LMWCr," *J. Biol. Inorg. Chem.* **5**: 129-136 (2000).
- H. Challa, M. L. Styers, and S. A. Woski, "Nitroazole Universal Bases in Peptide Nucleic Acids," *Org. Lett.* **1**: 1639-1641 (1999).
- J. G. Hacia, E. A. Novotny, R. A. Mayer, S. A. Woski, M. A. Ashlock, and F. S. Collins, "Design of Modified Oligonucleotide Probes to Detect Telomere Repeat Sequences in FISH Assays," *Nucleic Acids Res.* **27**: 4034-4039 (1999).
- U. Wichai and S. A. Woski, "Disiloxane-Protected 2-Deoxyribonolactone as an Efficient Precursor to 1,2-Dideoxy-1-b-aryl-D-ribofuranoses," *Org. Lett* **1**: 1173-1175 (1999).

J. K. Speetjens, R. A. Collins, J. B. Vincent, and S. A. Woski, "The Nutritional Supplement Chromium(III) Tris(picolinate) Cleaves DNA," *Chem. Res. Toxicol.* **12**: 483-487 (1999).

Synergistic Activities:

Co-PI and Co-Director, NSF-funded *Research Experiences for Undergraduates in Chemistry at the University of Alabama*, 2006-present.

Coauthor, "DNA and RNA: Composition and Structure" In *Textbook of Biochemistry with Clinical Correlations 5th and 6th Ed.*, T. Devlin, Ed., Wiley: New York, 2002, 2006.

Collaborators (past 5 years):

Shane Street (The University of Alabama (UA)), Robert Metzger (UA), John B. Vincent (UA), Carolyn Cassady (UA), Lowell Kispert (UA), Hank Heath (UA), Frank Schmidt (U. Missouri), Martin Klinger (Vivo Biosciences), J. A. Engler (U. Alabama at Birmingham).

Graduate Students:

Hemavathi Challa, Kathryn Frey, Tom Byrne, Uthai Wichai, Will Bonnett, Zhenkun Lou, Kris Speetjens, Eric Yandell, Valarie Stuman, Yongjun Chu, Shannon Byrd, Michelle Hunt, Cuiling Liu, Dominic Qualley, Dipali Chaudhari.

Total number: 15 (47% female, 13% underrepresented minority).

Undergraduate Research Students:

Nathaniel Cospers, Jill Swindoll, Stacey Horner, Christopher Morgan, Jess Murphy, Ken Baumhoff, Andrea Baskinger, Sarita Brackett, Jeremy Gray, Jennifer Frazer, Melanie Styers, Marcel Burney, Keith Tomich, Heather White, Stephen Colvin, Will Cunningham, John Wesley Smith, Scott Wilson, Joanie Isom, Daniel Grant, Anaurach Polek, Sam McElwee, Kim Gilbert, Anna Foust, Matt Haney, Andrika Cooper, Lindsay Wargo, Dale Becker, Kelli McNamara, Brian Ondocsin, Mahi Yarlalagadda, Angelica Trumer, Mike Karafotias-Gibson, Anton Dukeman, Patrick Montgomery, Megan Moshea.

Total number: 36 (44% female, 19% underrepresented minority).

Research Experiences for Teachers (RET) Participants:

Beth Sherrill, Virginia Cole, Shari Edwards-Jones, Deborah Harper.

Total number: 4 (100% female, 75% underrepresented minority).