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Current Position

Associate Professor, Department of Chemistry and Physics, Louisiana State University,
Shreveport, LA 71115 (commenced August 20, 2003).

Education and Professional Experience

- 1996-2003 Assistant Professor, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208.
- 1993 - 1996 NIH Postdoctoral Fellow (October 1993 - June 1996)
Yale University, Department of Chemistry with Professor James Prestegard
Research: Synthetic and NMR conformational studies of isotopically labeled oligosaccharides in an oriented liquid crystalline medium which mimics their natural environment.
- 1987 - 1993 Ph.D., Organic Chemistry (awarded December 1993)
University of Pennsylvania, Philadelphia, PA 19104-6323
Research advisor: Professor Amos B. Smith III,
Chairman, Department of Chemistry
Dissertation Title: *Progress Toward the Total Synthesis of (+) Calyculin A*
1983 - 1987 B.S., Chemistry (*Magna Cum Laude*, May 1987)
- 1983-1987 The University of Michigan, Ann Arbor, MI 48109
Research advisor: Professor Leroy B. Townsend,
Chairman, Department of Medicinal Chemistry
Honors Thesis: *The Synthesis of a New Class of Chalcone Analogs as Antifilarial Agents.*

Publications

1. "Vitamin E analogues: A New Class of Inducers of Apoptosis with Selective Anti-Cancer Effects", Neuzil, J.; Tomasetti, M.; Mellick, A.S.; Alleva, R.; Salvatore, B.A.; Birringer, M.; Fariss, M.W., *Current Cancer Drug Targets* 267-283 (2004).
2. "Origin of Archosaurian Integumentary Appendages: the Bristles of the Wild Turkey Beard Express Feather-Type Beta Keratins", Sawyer, R.H.; Washington L.D.; Salvatore, B.A.; Glenn, T.C.; Knapp, L.W. *J. Exp. Zoology (Mol. Dev. Evol)*, **297**, 27-34, (2003).
3. "Vitamin E analogs as Inducers of Apoptosis: Structure-Function Relationship", Birringer, M.; EyTina, H.J.; Salvatore, B.A.; Neuzil, J. *British J. Cancer*, **88**, 1948-1955, (2003).
4. "Origin of Feathers: Feather Beta (β) Keratins Are Expressed in Discrete Epidermal Cell Populations of Embryonic Scutate Scales", Sawyer, R.H.; Salvatore, B.A.; Potylicki, T.-T.F.; French, J.O.; Glenn, T.C.; Knapp, L. *J. Exp. Zoology (Mol. Dev. Evol)*, **295**, 12-24, (2003).
5. "NMR Spectroscopy-II", Salvatore, B.A. *Annual Reports on the Progress of Chemistry, Royal Society of Chemistry*, **95**, 395, (1999).
6. "Total Synthesis of (+)-Calyculin A and (-)-Calyculin B: Asymmetric Synthesis of the C(9-25) Spiroketal Dipropionate Subunit", Smith, A.B., III; Friestad, G.K.; Barbosa, J.; Bertounesque, E.; Hull, K.G.; Iwashima, M.; Qiu, Y.P.; Salvatore, B.A.; Spoons, P.G.; Duan J.J.W. *J. Am. Chem. Soc.*, **121**, 10468 (1999)."
7. "Total Synthesis of (+)-Calyculin A and (-)-Calyculin B: Cyanotetraene Construction, Asymmetric Synthesis of the C(26-37) Oxazole, Fragment Assembly, and Final Elaboration", Smith, A.B., III; Friestad, G.K.; Barbosa, J.; Bertounesque, E.; Duan, J.J.W.; Hull, K.G.; Iwashima, M.; Qiu, Y.P.; Spoons, P.G.; Salvatore, B.A. *J. Am. Chem. Soc.*, **121**, 10478 (1999).
8. "Total Synthesis of (+)-Calyculin A and (-)-Calyculin B", Smith, A.B., III; Friestad, G.K.; Duan, J.J.W.; Barbosa, J.; Hull, K.G.; Iwashima, M.; Qiu, Y.; Spoons, P.G.; Bertounesque, E.; Salvatore, B.A. *J. Org. Chem.*, **63**, 7596 (1998).
9. "Synthesis of a ^{15}N , ^{13}C -Labeled Lactam Analog of a $\text{G}_{\text{M}4}$ -Lactone Cell-Surface Glycolipid", Salvatore, B.A.; Prestegard, J.H. *Tetrahedron Lett.*, **39**, 9319 (1998).
10. "NMR Spectroscopy", Salvatore, B.A. *Annual Reports on the Progress of Chemistry, Royal Society of Chemistry*, **94**, 361(1998).
11. "Total Synthesis of (+)-Acutiphycin and (+)-*trans*-20, 21-Didehydroacutiphycin", Smith, A.B., III; Chen, S.S.-Y.; Nelson, F.C.; Reichert, J.M.; Salvatore, B.A. *J. Am. Chem. Soc.* **119**, 10935 (1997).
12. "NMR Studies of a ^{13}C , ^{15}N -Labeled $\text{G}_{\text{M}4}$ -Lactam Glycolipid at an Oriented Model-Membrane Interface", Salvatore, B.A.; Ghose; R.; Prestegard, J.H. *J. Am. Chem. Soc.*, **118**, 4001 (1996).
13. "Total Synthesis of (+)-Acutiphycin and (+)-*trans*-20, 21-Didehydroacutiphycin", Smith, A.B., III; Chen, S.S.-Y.; Nelson, F.C.; Reichert, J.M.; Salvatore, B.A. *J. Am. Chem. Soc.*, **117**, 12013 (1995).
14. "Calyculin Synthetic Studies. 3. Enantiomeric Purity Determination for the C(26)-C(32) Oxazole Segment via the Silks-Odom ^{77}Se NMR Method", Salvatore, B.A.; Smith, A.B., III *Tetrahedron Lett.*, **35**, 1329 (1994).
15. "Calyculin Synthetic Studies. 2. Stereocontrolled Assembly of the C(9)-C(13) Dithiane and C(26)-C(37) Oxazole Intermediates", Smith, A.B., III; Salvatore, B.A.; Hull, K.,G.; Duan, J.J.W. *Tetrahedron Lett.*, **32**, 4859 (1991).
16. "Calyculin Synthetic Studies. Stereoselective Construction of the C(14)-C(25) Spiroketal Subunit", Smith, A.B., III; Duan, J.J.W.; Hull, K.G.; Salvatore, B.A. *Tetrahedron Lett.*, **32**, 4855 (1991).