WALTER R. OTT, Ph.D.

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PROFESSIONAL EXPERIENCE

ASSOCIATE PROFESSOR 2005-present
PRESBYTERIAN COLLEGE, Clinton, South Carolina

ASSISTANT PROFESSOR 1998-2005
PRESBYTERIAN COLLEGE, Clinton, South Carolina

- Teaching Responsibilities:
  - Organic Chemistry (2 semester lecture and laboratory course)
  - Biochemistry (1st semester of a 2 semester of a lecture and lab course)
  - General Chemistry (2nd semester lecture and 1st and 2nd laboratory course)
  - Junior and Senior Seminar courses.

SENIOR LECTURER 1996-1998
Emory University, Atlanta, Georgia

- Teaching Responsibilities
  - Organic Chemistry (2 semester course with an average enrollment of 275 students)
  - Basic Organic Chemistry Laboratory (2 semester course with an annual budget of $20,000)
  - Advanced Organic Chemistry Laboratory (2 semester course)
  - Biochemistry (1st semester of a 2 semester course)
  - Structure Elucidation (1 semester course)

  Experimental Problem Based Learning Course (1 semester)
  Summer college preparatory course for high school students

LECTURER 1990-1996
Emory University, Atlanta, Georgia

- Performed teaching and administrative functions similar to those above for Senior Lecturer.

VISITING PROFESSOR 1988-1990
Brown University, Providence, Rhode Island
Department of Chemistry

- Taught Introductory and Advanced Organic Chemistry Laboratory
- Taught Advanced Organic Chemistry lecture course

POSTDOCTURAL RESEARCH ASSOCIATE 1986-1989
Brown University, Providence, Rhode Island
Department of Chemistry

- Conducted research with David E. Cane, Professor of Chemistry, in macrolide biosynthesis
- Supervised and trained graduate and undergraduate students in research laboratory techniques

EDUCATION

EMORY UNIVERSITY 1981-1986
Ph.D. in Chemistry
- Conducted research with Dennis C. Liotta, Professor of Chemistry, in synthetic organic chemistry

UNIVERSITY OF CENTRAL FLORIDA 1977-1981
B.A. in Chemistry

GRANTS

- "Tutorial Program Over the Network II: Expanding the Use of On-Line Tutorial Programs in the Chemistry Curriculum". 1996 Instructional Computing Program Development Fund proposal which was approved for $7,563. The funds were applied for the purchase of tutorial software applications to run over the Emory network for the introductory and intermediate level undergraduate chemistry courses and laboratories.

- "Tutorial Program Over the Network: Initiating the Use of On-Line Tutorial Programs in the Chemistry Curriculum". 1995 Instructional Computing Program Development Fund proposal which was approved for $16,746. The funds were applied for the purchase and installation of a high volume Apple Workgroup (Power PC) server.

PROFESSIONAL PUBLICATIONS

Nargenicin biosynthesis. Incorporation of polyketide chain elongation intermediates and support for a proposed intramolecular Diels-Alder cyclization. Cane, D.E.; Tan, W.; Ott, W.R. *J. Am. Chem. Soc.* **1993**, 115(2), 527-535.

Macrolide biosynthesis. 7. Incorporation of polyketide chain elongation intermediates into methymycin. Cane, D.E.; Lambalot, R.H.; Prabhakaran, P.C.; Ott, W.R. *J. Am. Chem. Soc.* **1993**, 115(2), 522-526.

Macrolide biosynthesis. 6. Mechanism of polyketide chain elongation. Cane, D.E.; Prabhakaran, P.C.; Tan, W.; Ott, W.R. *Tetrahedron Lett.* **1991**, 32(40), 5457-5460.

Biosynthesis of pyrroloquinoline quinone. 1. Identification of biosynthetic precursors using carbon-13 labeling and NMR spectroscopy. Ott, W.R.; Cane, D.E. *Chemtracts: Org. Chem.* **1989**, 2(1), 75-77.

Cell-free biosynthesis of nocardicin A from nocardicin E and S-adenosylmethionine. Ott, W.R.; Cane, D.E. *Chemtracts: Org. Chem.*. **1989**, 2(2), 135-137.

Isolation of proposed intermediates in the biosynthesis of mycinamicins. Ott, W.R.; Cane, D.E. *Chemtracts: Org. Chem.* **1988**, 1(6), 471-473.

Macrolide biosynthesis. 5. Intact incorporation of a chain-elongation intermediate into nargenicin. Cane, D.E.; Ott, W.R. *J. Am. Chem. Soc.* **1988**, 110(14), 4840-4841.

Triene cyclizations. Total synthesis of pallescensin A. Liotta, D.; Ott, W. *Synth. Commun.* **1987**, 17(14), 1655-1665.

A simple, efficient synthesis of 3-substituted furans. Liotta, D.; Saindane, M.; Ott, W. *Tetrahedron Lett.* **1983**, 24(24), 2473-2476.

Ph.D. DISSERTATION:
Methodologies toward the total synthesis of pallescensin A and model studies of the quassinoid bruceantin. Ott, W.R. *Diss. Abstr. Int. B.* **1987**, 47(11), 4527.