

## CURRICULUM VITAE

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### CHRISTOPHER N. BODDY

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Date of Birth: 08/11/73  
Nationality: Canadian  
U.S.A. Permanent Resident

### RESEARCH EXPERIENCE

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2004-present	Syracuse University Syracuse, NY, 13244-4100	Assistant Professor Department of Chemistry
2001-2004	Stanford University Stanford, CA, 94305-5025	Post-doctoral Fellow (Prof. C. Khosla)
2001	The Scripps Research Institute La Jolla, CA, 92107	Post-doctoral Fellow (Prof. P. Dawson)
1995-2001	The Scripps Research Institute La Jolla, CA, 92107	PhD (Prof. K. C. Nicolaou)
1999	Cold Spring Harbor Laboratories Cold Spring Harbor, NY, 11724	Yeast Genetics course (Prof. D. Burke, D. Dawson and T. Sterns)
1991-1995	University of Alberta Edmonton, Alberta, Canada	BSc Honours Chemistry

### AWARDS

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Stanford University nominee for the Burroughs Wellcome Career Award in Biomedical Sciences 2004

Pfizer Fellow, Natural Product Gordon Research Conference 2002

National Research Service Award, National Cancer Institute 2001-2004

National Science and Engineering Research Council of Canada Postgraduate Fellowship (declined, tenure available in Canada only) 1995

Canada Scholarship 1991-1995

Alberta Heritage Medical Research Summer Studentship 1993-1994

## **Invited Lectures and Conferences**

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### **2007**

National Research Council of Canada  
Natural Products Gordon Research Conference  
Amherst College  
State University of New York, Oswego

### **2006**

Transatlantic Frontiers in Chemistry  
Natural Products Gordon Research Conference  
Worcester State College  
Stonehill College  
Seton Hall University

### **2005**

Upstate Medical School, Division of Infectious Disease  
Natural Products Gordon Research Conference  
NIH Mentoring Workshop in Chemical Biology  
Youngstown State University  
SUNY Environmental Science and Forestry  
Hamilton College

### **2004**

University of Cincinnati  
Ithaca College  
Syracuse University  
University of Toledo  
McGill University  
University of British Columbia  
Washington University St. Louis  
Cornell University  
Vanderbilt University  
The Ohio State University

### **2003**

Duke University  
University of Hawaii, Manoa  
University at Buffalo

### **2002**

Natural Products Gordon research Conference

## **PUBLICATIONS**

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Independent Publications

23. **A New Mechanism for Benzopyrone Formation in Aromatic Polyketide Biosynthesis** Zhang, Wenju; Wilke, Burkhardt I.; Zhan, Jixun; Watanabe, Kenji; Boddy,\* Christopher N.; Tang,\* Yi J. *Am. Chem. Soc.* **2007**, ASAP. (\* Corresponding authors)
22. **Sialic acid and N-acyl sialic acid analog production by fermentation of metabolically and genetically engineered *Escherichia coli*** Lundgren, Benjamin L.; Boddy, Christopher N. *Org. Biomol. Chem.* **2007**, 5, 1903-1909. (Evaluated by Faculty of 1000.)
21. **The thioesterase domain from the pimarin and erythromycin biosynthetic pathways can catalyze hydrolysis of simple thioester substrates.** Sharma, Krishna K.; Boddy, Christopher N. *Bioorg. Med. Chem. Lett.* **2007**, 17, 3034-3037.
20. **Total biosynthesis of antitumor nonribosomal peptides in *Escherichia coli*.** Watanabe, Kenji; Hotta, Kinya; Praseuth, Alex P.; Kotetsu, Kento; Migita, Akira; Boddy, Christopher N.; Wang, Clay C. C.; Oguri, Hiroki; Oikawa, Hideaki *Nature Chemical Biology* **2006**, 2, 423-428.
19. **Sweetening Cyclic Peptide Libraries.** Boddy, Christopher N. *Chem. Biol.* **2004**, 11, 1599-1600.

Publications as a post-doctoral fellow and graduate student

18. **Precursor-Directed Biosynthesis of Epothilone in *Escherichia coli*.** Boddy, Christopher N.; Hotta, Kinya; Tse, Martha Lovato; Watts, R. Edward; Khosla, Chaitan. *J. Am. Chem. Soc.* **2004**, 126, 7436-7437.
17. **Understanding Substrate Specificity of Polyketide Synthase Modules by Generating Hybrid Multimodular Synthases.** Watanabe, Kenji; Wang, Clay C. C.; Boddy, Christopher N.; Cane, David E.; Khosla, Chaitan *J. Biol. Chem.* **2003**, 278, 42020-42026.
16. **Epothilone C Macrocyclization and Hydrolysis Are Catalyzed by the Isolated Thioesterase Domain of Epothilone Polyketide Synthase.** Boddy, Christopher N.; Schneider, Tanya; Hotta, Kinya; Walsh, Christopher T.; Khosla, Chaitan *J. Am. Chem. Soc.* **2003**, 125, 3428-3429.
15. **Atropselective Macrocyclization of Diaryl Ether Systems: Application to the Synthesis of Vancomycin.** Nicolaou, K. C.; Boddy, Christopher N. C. *J. Am. Chem. Soc.* **2002**, 124, 10451-10455.
14. **Extending Synthetic Access to Proteins with a removable acyl transfer auxiliary.** Offer, John; Boddy, Christopher N. C.; Dawson, Philip E. *J. Am. Chem. Soc.* **2002**, 124, 4642-4646.
13. **Behind Enemy Lines.** Nicolaou, K. C.; Boddy, Christopher N. C. *Scientific American* **2001**, May, 54-61.
12. **Does CIP nomenclature adequately handle molecules with multiple stereoelements? A case study of vancomycin and cognates.** Nicolaou, K. C.; Boddy, Christopher N. C.; Siegel, Jay S. *Angew. Chem.* **2001**, 113; 723-726; *Angew. Chem. Int. Ed.* **2001**, 40, 701-704.
11. **Total Synthesis of Vancomycin: Part 2. Retrosynthetic Analysis, Synthesis of Amino Acid Building Blocks and Strategy Evaluations.** Nicolaou, K. C.; Boddy, Christopher N. C.; Li, Hui; Koumbis, A. E.; Hughes, Robert; Natarajan, Swaminathan; Jain, Nareshkumar F.; Ramanjulu, Joshi M.; Bräse, Stefan; Solomon, Michael E. *Chem. Eur. J.* **1999**, 5, 2602-2621.

10. **Total Synthesis of Vancomycin: Part 1. Design and Development of Methodology.** Nicolaou, K. C.; Li, Hui; Boddy, Christopher N. C.; Ramanjulu, Joshi M.; Yue, Tai-Yuen; Natarajan, Swaminathan; Chu, Xin-Jie; Bräse, Stefan; Rübsam, Frank *Chem. Eur. J.* **1999**, *5*, 2584–2601.
9. **Chemistry, Biology, and Medicine of the Glycopeptide Antibiotics.** Nicolaou, K. C.; Boddy, Christopher N. C.; Bräse, Stefan; Winssinger, Nicolas *Angew. Chem.* **1999**, *111*, 2230–2287; *Angew. Chem. Int. Ed.* **1999**, *38*, 2097–2152.
8. **Total Synthesis of Vancomycin Aglycon - Part 1: Synthesis of Amino Acids 4-7 and Construction of the AB-COD Ring Skeleton.** Nicolaou, K. C.; Natarajan, Swaminathan; Li, Hui; Jain, Nareshkumar F.; Hughes, Robert; Solomon, Michael E.; Ramanjulu, Joshi M.; Boddy, Christopher N. C.; Takayanagi, Masaru *Angew. Chem.* **1998**, *110*, 2872–2878; *Angew. Chem. Int. Ed.* **1998**, *37*, 2708–2714.
7. **Probing the Ring Size of Epothilones: Total Synthesis of [14]-, [15]-, [17]-, [18]-Epothilones A.** Nicolaou, K. C.; Sarabia, Francisco; Ninkovic, Sacha; Finlay, M. Ray V.; Boddy, Christopher N. C. *Angew. Chem.* **1998**, *110*, 85–89; *Angew. Chem. Int. Ed.* **1998**, *37*, 81–84.
6. **A Suzuki Coupling-macrolactamization Approach to the AB-COD Bi-cyclic System of Vancomycin.** Nicolaou, K. C.; Ramanjulu, Joshi M.; Natarajan, Swaminathan; Bräse, Stefan; Li, Hui; Boddy, Christopher N. C.; Rübsam, Frank *Chem. Commun.* **1997**, 1899–1900.
5. **New Technology for the Synthesis of Vancomycin-type Biaryl Ring Systems.** Nicolaou, K. C.; Chu, Xin-Jie; Ramanjulu, Joshi M.; Natarajan, Swaminathan; Bräse, Stefan; Rübsam, Frank; Boddy, Christopher N. C. *Angew. Chem.* **1997**, *109*, 1551–1552; *Angew. Chem. Int. Ed.* **1997**, *36*, 1539–1540.
4. **New Synthetic Technology for the Synthesis of Aryl Ethers: Construction of C-O-D and D-O-D Ring Model Systems of Vancomycin.** Nicolaou, K. C.; Boddy, Christopher N. C.; Natarajan, Swaminathan; Yue, Tai-Yuen; Li, Hui; Bräse, Stefan; Ramanjulu, Joshi M. *J. Am. Chem. Soc.* **1997**, *119*, 3421–3422.
3. **Total Synthesis of Crystalline (±)-Fredericamycin A.** Clive, Derrick L. J.; Tao, Yong; Khodabocus, Ahmad; Wu, Yong Jin; Angoh, A. Gaetan; Bennett, Sharon M.; Boddy, Christopher N.; Bordeleau, Luc; Cantin, Michel; Kleiner, Galit; Middleton, Donald S.; Nichols, Christopher J.; Richardson, Scott R.; Vernon, Peter G. *Stud. Nat. Prod. Chem.* **1995**, *16*, 27–74.
2. **Total Synthesis of Crystalline (±)-Fredericamycin A. Use of Radical Spirocyclization.** Clive, Derrick L. J.; Tao, Yong; Khodabocus, Ahmad; Wu, Yong Jin; Angoh, A. Gaetan; Bennett, Sharon M.; Boddy, Christopher N.; Bordeleau, Luc; Kellner, Dorit; Kleiner, Galit; Middleton, Donald S.; Nichols, Christopher J.; Richardson, Scott R.; Vernon, Peter G. *J. Am. Chem. Soc.* **1994**, *116*, 11275–11286.
1. **Total Synthesis of (±)-Fredericamycin A. Use of Radical Spirocyclization.** Clive, Derrick L. J.; Tao, Yong; Khodabocus, Ahmad; Wu, Yong Jin; Angoh, A. Gaetan; Bennett, Sharon M.; Boddy, Christopher N.; Bordeleau, Luc; Kellner, Dorit; Kleiner, Galit; Middleton, Donald S.; Nichols, Christopher J.; Richardson, Scott R.; Vernon, Peter G. *J. Chem. Soc., Chem. Commun.* **1992**, 1489–1490.