

## Fellowship Awardees for 2001-2002



**Aaron Aponick**

Sponsor: Schering-Plough Research Institute  
University: The University of Michigan  
Advisor: *William H. Pearson*

Aaron Aponick graduated *cum laude* from Lebanon Valley College with an B.S. degree in Chemistry. While an undergraduate, Aaron worked under the direction of Professor Carl T. Wigal, examining quinone alkylations. He then moved on to the University of Michigan, where he has explored 2-azaallyl anion cycloaddition chemistry. Aaron is currently in his fourth year of graduate study and is working on the total synthesis of the alkaloid scandine, under the supervision of Professor William H. Pearson.



**Christopher S. Callam**

Sponsor: Aventis Pharmaceuticals  
University: *Ohio State University*  
Advisor: *Todd L. Lowary*

Christopher S. Callam is a fourth year graduate student at The Ohio State University studying with Professor Todd L. Lowary. Chris' research has been directed toward the synthesis and conformational studies of novel glycosides containing furanose rings. In addition, Chris has undertaken a number of computational projects related to his experimental efforts. Chris graduated *magna cum laude* from John Carroll University, where he received his B.S. degree in Chemistry and carried out undergraduate research with L.C. Brazdil and Michael A. Nichols.



**William P. Gallagher**

Sponsor: Pfizer, Inc.

*University: Michigan State University*

*Advisor: Robert E. Maleczka*

William (Bill) P. Gallagher is a fourth year graduate student at Michigan State University working in the laboratories of Professor Robert E. Maleczka, Jr. Bill's research efforts have resulted in the discovery of a Stille coupling protocol that is catalytic in tin. In addition, Bill has developed a way to recycle the tin and is involved in demonstrating the utility of this protocol in a synthesis of kuebneromycin A. Bill received his B.S. degree in Chemistry from Rochester Institute of Technology and, while an undergraduate, carried out research at both Astra Arcus USA and Rochester Midland Corp.



**David J. Guerin**

Sponsor: Bristol-Myers Squibb

*University: Boston College*

*Advisor: Scott J. Miller*

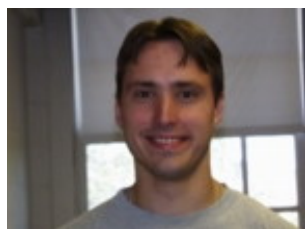
David (Dave) J. Guerin is a fourth year graduate student at Boston College studying with Professor Scott J. Miller. Dave has been investigating peptide-based catalysis for the asymmetric addition of azide ion to  $\alpha,\beta$ -unsaturated carbonyl compounds. Dave graduated from the University of Rhode Island, where he received his B.S. degree in Pharmacy. His undergraduate research with Professor Raymond P. Panzica involved the synthesis of barbituric acid-derived uridine phosphorylase inhibitors.



**Howard C. Hang**

Sponsor: DuPont Pharmaceuticals  
*University: University of California at Berkeley*  
*Advisor: Carolyn R. Bertozzi*

Howard C. Hang obtained his B.S. degree in Chemistry from the University of California, Santa Cruz, where he worked with Professor Joseph Konopelski in the area of natural products total synthesis. He then moved on to the University of California, Berkeley and joined the research group of Professor Carolyn R. Bertozzi. As part of Howard's graduate research efforts, he has prepared ketone isosteres of N-acetamidoglycosides and has discovered a new avenue for cellular engineering that exploits these structures.



**Frank W. Kotch**

Sponsor: AstraZeneca  
*University: University of Maryland*  
*Advisor: Jeffrey T. Davis*

Frank W. Kotch obtained a B.S. degree in Chemistry from Pennsylvania State University. While an undergraduate, Frank served internships at SmithKline Beecham Pharmaceuticals and Rohm and Haas Company. Frank then moved on to the University of Maryland, where he has been mentored by Professor Jeffrey T. Davis. Frank's research has focused on the synthesis, structure and function of supramolecular assemblies that coordinate cations and on the preparation of synthetic ion channels.



**Shaun MacMahon**

Sponsor: GlaxoSmithKline  
*University: New York University*  
*Advisor: David I. Schuster*

Shaun MacMahon is a graduate student at New York University, studying under the supervision of Professor David I. Schuster. Shaun is currently completing his third year of graduate study after having obtained a B.S. degree in Chemistry from New York University. Shaun's research as an undergraduate and as a graduate student has centered on the synthesis and photophysics of porphyrin-fullerene hybrids.



### **Tara R. Rheault**

Sponsor: Merck & Co., Inc.

*University: North Dakota State University*

*Advisor: Mukund P. Sibi*

Tara R. Rheault is currently a fourth year graduate student at North Dakota State University, working in the laboratories of Professor Mukund P. Sibi. In her graduate studies, Tara has been involved in the development of new synthetic methodology for carbon-carbon bond formation using free radical intermediates and has probed the origin of diastereoselectivity in free radical allylation reactions. Tara graduated *summa cum laude* from Minnesota State University Moorhead, where she received her B.A. degree in Chemistry.



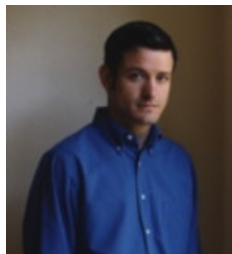
### **John E. Robinson**

Sponsor: Eli Lilly

*University: Indiana University*

*Advisor: P. Andrew Evans*

John E. Robinson is a fourth year graduate student of Professor P. Andrew Evans, engaged in research first at the University of Delaware and currently at Indiana University. John has been investigating rhodium(I)-mediated allylic alkylation and amination reactions and has been exploring a rhodium(I)-catalyzed tandem alkylation/Pauson-Khand annulation sequence for the construction of azabicycles. John received a B.S. degree in Biochemistry degree from Indiana University of Pennsylvania where he carried out undergraduate research in the laboratories of Professors John T. Wood and Roy Harding, working on the total synthesis of sordarial.



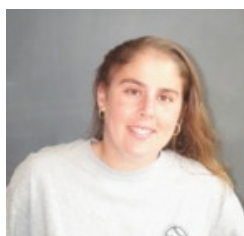
### **Anthony John Roecker**

Sponsor: Novartis

*University: The Scripps Research Institute*

*Advisor: K. C. Nicolaou*

Anthony John (A.J.) Roecker is a third year graduate student engaged in research in the laboratories of Professor K.C. Nicolaou at The Scripps Research Institute, where he has contributed to the design and construction of natural product-like combinatorial libraries and is currently working on the total synthesis of azadirachtin. A.J. received his B.S. degree in Chemistry from The Ohio State University where he conducted undergraduate research under the supervision of Professor Jonathan Parquette and investigated the synthesis and chiroptical properties of dendritic compounds.



### **Rebecca T. Ruck**

Sponsor: Albany Molecular Research, Inc.

*University: Harvard University*

*Advisor: Eric N. Jacobsen*

Rebecca T. Ruck is a fourth year graduate student, studying in the laboratories of Professor Eric N. Jacobsen at Harvard University. Rebecca has explored the mechanism of chromium(III)-catalyzed asymmetric hetero-Diels-Alder reactions. Results from these studies have led to the discovery of chromium(III)-catalyzed asymmetric hetero-ene reactions. Rebecca graduated *summa cum laude* with a B.A. degree in Chemistry from Princeton University, where she was involved in the generation and study of aliphatic carbenes while conducting undergraduate research with Professor Maitland A. Jones, Jr.



**Jennifer V. Schaus**

Sponsor: Wyeth-Ayerst  
*University: Boston University*  
*Advisor: James S. Panek*

Jennifer Schaus graduated *cum laude* from Boston University with a B.A. degree in Chemistry. As an undergraduate, Jennifer worked under the supervision of Professor James S. Panek. Following a year at Scriptgen Pharmaceuticals, Inc, Jennifer returned to Professor Panek's group where she has been investigating the stereoselective addition of chiral crotylsilanes to thionium ions and palladium catalyzed cross coupling reactions of triflyl-substituted oxazoles. Her current laboratory efforts are directed toward the total synthesis of phorboxazole-A.



**Andrew E. Taggi**

Sponsor: Organic Reactions  
*University: John Hopkins University*  
*Advisor: Tom Lectka*

Andrew E. Taggi is currently a fourth year graduate student studying with Professor Thomas Lectka at Johns Hopkins University. Andrew has been involved in the development of methodology for the catalytic asymmetric synthesis of  $\beta$ -lactams and  $\alpha$ -haloesters. Andrew obtained a B.A. degree in Chemistry from Cornell University and carried out undergraduate research under the supervision of Professor Jerrold Meinwald.



### **Ryan W. Van De Water**

Sponsor: Organic Syntheses

University: *University of California at Santa Barbara*

Advisor: *Thomas R. R. Pettus*

Ryan W. Van De Water graduated *cum laude* with a bachelors of science degree in Chemical Physics from University of California, San Diego where he carried out undergraduate research with Professor Nathaniel Finney. Ryan then continued his education at University of California, Santa Barbara where he has been working in the laboratories of Professor Thomas R.R. Pettus. Ryan has been developing methodology for the construction of enantioenriched cyclohexa-2,5-dienones via oxidative dearomatization of resorcinol derivatives and is currently exploiting this chemistry in an asymmetric synthesis of scyphostatin, a sphingomyelinase inhibitor.



### **John J.M. Wiener**

Sponsor: Pharmacia Corp.

University: *California Institute of Technology*

Advisor: *David W. C. MacMillan*

John (Jake) J. M. Wiener graduated *magna cum laude* from Harvard University with an A.B. degree in Chemistry. While an undergraduate, Jake worked under the guidance of Professor David A. Evans at Harvard University investigating the synthesis of enantiomerically pure  $\beta$ -substituted,  $\beta$ -amino acids and with Professor Peter Politzer at the University of New Orleans exploring density functional theory computations of molecular properties and transition states of reactions. He then moved on to the University of California, Berkeley and later California Institute of Technology, where he has been involved in the development of enantioselective organocatalytic 1,3-dipolar cycloadditions and in studies directed toward the synthesis of Callipeltoside A under the supervision of Professor David W.C. MacMillan.



### **Scott E. Wolkenberg**

Sponsor: Procter & Gamble  
*University: The Scripps Research Institute*  
*Advisor: Dale L. Boger*

While attending Cornell University as an undergraduate, Scott E. Wolkenberg worked in the laboratories of Professor Tadhg P. Begley, developing a flexible assay for thiaminase I activity, and Professor Harold A. Scheraga, determining the distribution of disulfide intermediates formed in the protein folding pathway of a ribonuclease A mutant. Upon graduating *summa cum laude* with a B.A. degree in Chemistry, Scott joined the Scripps Research Institute. He is currently a fourth year graduate student studying with Professor Dale L. Boger. Scott has been involved in the synthesis and evaluation of analogs of the antitumor antibiotics CC-1065 and duocarmycin SA and has been studying the scope of cycloaddition reactions involving substituted 1,3,4-oxadiazoles.



### **Aaron D. Wroblewski**

Sponsor: Abbott Laboratories  
*University: University of Kansas*  
*Advisor: Jeffrey Aubé*

Aaron D. Wroblewski is a third year graduate student working under the supervision of Professor Jeffrey Aubé at the University of Kansas. Aaron has been investigating the intramolecular reaction of benzylic azides with ketones and is currently exploiting this chemistry in natural products total synthesis. Aaron graduated from Luther College with a B.A. degree in Chemistry and Biology. While an undergraduate, Aaron worked under the guidance of Professor Adrian Docken at Luther College and, in addition, with Professor Paul R. Hanson at the University of Kansas exploring intramolecular cyclopropanation reactions.



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