

POCC 15<sup>th</sup> Biennial Poster Day

April 21<sup>st</sup>, 2005

The Atrium, New Chemistry Building, University of Pennsylvania

**1. A Convergent Second Generation Synthesis of (+)-Phorboxazole A and Identification of Highly Cytotoxic Analogs Through SAR Studies**

Thomas M. Razler, Regina M. Meis, Jeffery P. Ciavarrì, Tomoyasu Hirose, Tomoyasu Ishikawa, and Amos B. Smith, III\*

*Department of Chemistry, Monell Chemical Senses Center, and Laboratory for Research on the Structure of Matter, University of Pennsylvania, Philadelphia, PA, USA, 19104.*

**2. Enantioselective synthesis of majusculone**

Douglass F. Taber\*, Pierre H. Storck, M. Inthikhab Sikkander  
*University of Delaware, Department of Chemistry and Biochemistry  
Academy Street, Newark, DE 19716*

**3. Progress Toward the Total Synthesis of Ritterazine N**

Karen V. Taluskie, Douglass F. Taber\*  
*Department of Chemistry & Biochemistry  
University of Delaware, Newark, DE 19716*

**4. Toward the Total Synthesis of N-Deacetylappaconitine**

Douglass F. Taber\*, Jianglin Liang  
*Department of Chemistry and Biochemistry  
University of Delaware, Newark, DE 19716*

**5. Total Synthesis of the Enediol Isofurans**

Douglass F. Taber\*, Z. Leon Zhang  
*Department of Chemistry and Biochemistry  
University of Delaware, Newark, Delaware 19716*

**6. Progress Toward The Total Synthesis of Hamigeran B**

Douglass F. Taber\*, Weiwei Tian  
*Department of Chemistry and Biochemistry  
University of Delaware, Newark, Delaware, 19716*

**7. Progress Towards the Synthesis of (-)-Sordaricin**

Douglass F. Taber\* and Kevin J. Frankowski  
*Department of Chemistry and Biochemistry  
University of Delaware Newark, DE 19716*

**8. Selectfluor Mediated Rearrangements of Azabicyclic Halides: Ring Size, Halide, and Positional Effects on Neighboring group Participation**

Ryan A. Centafont, Grant R. Krow\*, Deepa Rapolu, Weiwei Guo, and Philip E. Sonnet  
*Department of Chemistry  
Temple University, Philadelphia, Pennsylvania 19122*

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**9. Indole-Diterpenoid Synthetic Studies. Progress Towards the Total Synthesis of (-)-Nodulisporic Acid D and (+)-Nodulisporic Acid F.**

Akin H. Davulcu, Laszlo Kurti, Amos B. Smith, III \*

*Department of Chemistry, Monell Chemical Senses Center and Laboratory for Research on the Structure of Matter, The University of Pennsylvania, Philadelphia, PA, 19104.*

**10. Aza-bicyclic amino acid amides as  $\alpha 4\beta 1/\alpha 4\beta 7$  integrin receptor antagonists.**

Alexey B. Dyatkin\*, Yong Gong, Tamara A. Miskowski, Bruce E. Maryanoff, William A. Kinney, Edward S. Kimball, Rosemary J. Santulli, M. Carolyn Fisher, Pamela J. Hornby, Wei He;

*Johnson and Johnson Pharmaceutical Research and Development, L.L.C., Drug Discovery, Welsh and McKean Roads, Spring House, PA 19477-0776*

**11. Replacement of Aspartic Acid in RGD Mimetics**

Diane B. Hauze\*<sup>1</sup>, Charles W. Mann<sup>1</sup>, Kenneth L. Kees<sup>1</sup>, Horace Fletcher III<sup>1</sup>, Richard J. Murrills<sup>2</sup>, Jeanne Matteo<sup>2</sup>, and Frederick J. Bex<sup>2</sup>

<sup>1</sup>*Chemical & Screening Sciences* <sup>2</sup>*Women's Health Research Institute, Wyeth Research, 500 Arcola Road, Collegeville, PA 19426-3930, USA*

**12. Pentacyclo[4.3.0.0<sup>2,4</sup>.0<sup>3,8</sup>.0<sup>5,7</sup>]non-4(5)-ene**

Joseph P. Herres, Mark A Forman\*, Jason Stairs  
*Saint Joseph's University, Department of Chemistry  
5600 City Avenue, Philadelphia, PA 19131*

**13. Synthesis and SAR of Novel Tricyclic Indanopyrazoles with Dual Anti-angiogenesis and Tumor Cell Anti-proliferative Activity**

Chih Y. Ho, <sup>1</sup> Donald Ludovici, <sup>1</sup> Umar Maharroof, <sup>1</sup> Eric Strobel, <sup>1</sup> Laura Andraka, <sup>1</sup> Jack Yen, <sup>2</sup> Jay Mei, <sup>1</sup> Robert W. Tuman, <sup>1</sup> Ann DeVine, <sup>1</sup> Rose Tominovich, <sup>1</sup> Hong Lu, <sup>1</sup> Judith Baker, <sup>1</sup> Candace Burns, <sup>1</sup> Jan Sechler, <sup>1</sup> Dana Johnson, <sup>1</sup> and Robert A. Galemno, Jr. <sup>1</sup>

**14. Catalytic Asymmetric Methallylation of Ketones with an (H<sub>8</sub>-Binolate)Ti Based Catalyst**

Jeung Gon Kim and Patrick J. Walsh\*

*P. Roy and Diana T. Vagelos Laboratories, University of Pennsylvania, Department of Chemistry, 231 South 34th Street, Philadelphia, Pennsylvania 19104-6323*

**15. FORMATION OF IMINES FROM AMINES AND ALDEHYDES: COMPUTATIONAL AND EXPERIMENTAL STUDIES**

Philip E. Sonnet<sup>1</sup>, David R. Dalton<sup>1</sup> and Linda M. Mascavage<sup>2\*</sup>.

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**16. Selective Addition of Electrophiles to a Bis Grignard**

Rebecca Mason and Douglass F. Taber.\*

*University of Delaware*

*Newark, DE 19716*

**17. Total Synthesis of C13-C14 Cyclopropane Discodermolide**

Ming Xian and Amos B. Smith, III\*

*Department of Chemistry,*

*University of Pennsylvania, Philadelphia, PA 19104*

**18. A Hetero-Diels-Alder Approach to Deoxygenated Disaccharides.**

Tuan-Linh Nguyen, Kevin Hughes, and Robert Giuliano\*.

*Department of Chemistry*

*Villanova University, Villanova, Pennsylvania 19085*

**19. Halophenylsulfonylation of Allylic Alcohols, Vinyl Ethers, and Glycals**

Vikram Basava, Russell Wolff, Herman Schauble, and Robert Giuliano\*

*Department of Chemistry*

*Villanova University, Villanova, PA 19085*

**20. PROGRESS TOWARDS THE ASYMMETRIC SYNTHESIS OF TRANS-2,6-DISUBSTITUTED PIPERIDINES**

Davis, Franklin A.; Xu, He, Zhang, Junyi.

*Department of Chemistry*

*Temple University, Philadelphia, PA 19122. Fax: 215-204-0478.*

**21. Progress Toward the Total Synthesis of Hypocrellin A via a Copper-Catalyzed Asymmetric Biaryl Coupling Reaction**

Erin O'Brien, Marisa Kozlowski\*.

*Department of Chemistr*

*University of Pennsylvania, 231 South 34<sup>th</sup> St., Philadelphia PA, 19104*

**22. Investigations Toward the Total Synthesis of Rubromycin Family Members**

Rakeshwar Bandichhor, Stephen Paul Waters and Marisa C. Kozlowski\*

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**23. A NEW PROTECTING GROUP FOR TERTIARY AMINES. APPLICATION FOR THE SYNTHESIS OF EFFEXOR® AND EVALUATION OF PRODRUGS OF O-DESMETHYL VENLAFAXINE**

John W. Ullrich<sup>\*</sup>, Uday Jain<sup>†</sup>, Robert Singhaus, Andrew Steiner and John Yardley

*Department of Chemical and Screening Sciences*

<sup>†</sup> *Physical Chemical Characterization, Monmouth Junction, NJ 08852,*

*Wyeth Research, 500 Arcola Road, Collegeville, PA 19426*

**24. STUDY ON THE ASYMMETRIC IODOCYCLIZATION OF HOMOALLYLIC AMINES.**

Franklin A. Davis<sup>\*</sup>, Minsoo Song, Alex Augustine.

*Department of Chemistry*

*Temple University, Philadelphia, Pennsylvania 19122*

**25. New Microbial Agents: Progress Toward the Total Synthesis of the Ripostatin Antibiotics**

Andrew Maier, Cristina Hudak, Rebecca Gaugler and Frances Rose Blase<sup>\*</sup>

*Haverford College 370 Lancaster Avenue Haverford, PA 19041*

**26. Toward the Total Synthesis of Cladiellin Diterpenes Utilizing a Sml<sub>2</sub>-Mediated Cyclization Strategy**

Gary A. Molander and Barbara Czako<sup>\*</sup>

*Roy and Diana Vagelos Laboratories, Department of Chemistry,*

*University of Pennsylvania, 231 South 34<sup>th</sup> Street, Philadelphia, PA 19104-6323*

**27. Synthesis of Carba-β-L-Fructopyranose and Carbacyclic Analogs of Topiramate**

Michael H. Parker<sup>\*</sup>, Bruce E. Maryanoff, and Allen B. Reitz

*Johnson & Johnson Pharmaceutical Research and Development*

*Welsh and McKean Roads, Spring House, PA 19477-0776*

**28. Preparation of a Heavily Functionalized Bicyclic Product via the Diels-Alder Reaction**

Alma Pipic and Peter A. Wade<sup>\*</sup>

*Drexel University*

*3141 Chestnut Street, Philadelphia PA, 19104*

**29. Solid phase synthesis of vancomycin-bis(8-amido-3,6-dioxaoctanoyl)-amidopropylsiloxy-titanium implants that inhibit proliferation of *Staphylococcus aureus***

Binoy Jose<sup>†</sup>, Samuel J. King<sup>§</sup>, Allen R. Zeiger<sup>†</sup>, Christopher J. Adams<sup>§</sup>, Noreen J. Hickok<sup>§</sup>, and Eric

Wickstrom<sup>†,‡,\*</sup>

*Departments of <sup>†</sup>Biochemistry & Molecular Pharmacology, <sup>‡</sup>Microbiology & Immunology, and <sup>§</sup>Orthopedic Surgery, Thomas Jefferson University, Philadelphia, PA 19107, USA*

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**30. Neighboring Group Participation in the Synthesis and Reactions of 4-X-exo-8-anti-Iodo-6-azabicyclo[3.2.1]octanes (X=F, Cl, OH). Selectfluor and Mercuric Fluoride as Nucleofuges**

Deepa Rapolu<sup>\*</sup>, Grant Krow<sup>1</sup>, Ryan A. Centafont<sup>1</sup> and Kevin C.Cannon<sup>2</sup>

(1) Temple University, Philadelphia, PA-19122

(2) Penn State Abington, Abington, PA

**31. Improved Solution and Solid Phase Preparation of Hydroxamic Acids from Esters.**

Eric Strobel,<sup>\*</sup> Chih Y. Ho, Janet Ralbovsky and Robert A Galemmo

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**32. Synthesis and SAR of Bisarylmaleimides: Inhibitors of Protein Kinase C and Glycogen Synthase Kinase-3**

Kimberly B. White<sup>1\*</sup>, Han-Cheng Zhang<sup>1</sup>, Hong Ye<sup>1</sup>, David F. McComsey<sup>1</sup> Claudia K. Derian<sup>1</sup>, Bruce R. Conway<sup>2</sup>, Michael F. Addo<sup>1</sup>, Annette J. Eckardt<sup>1</sup>, Diane R. Croll<sup>1</sup>, Jian Li<sup>1</sup>, Leonard R. Hecker<sup>1</sup>, Lori Westover<sup>2</sup>, Richard Look<sup>2</sup>, Stuart Emanuel<sup>2</sup>, Patricia Andrade-Gordon<sup>1</sup>, Bruce P. Damiano<sup>1</sup>, Keith T. Demarest<sup>2</sup>, Bruce E. Maryanoff<sup>1</sup>.

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**33. Cobalt-Mediated Cyclotrimerization of Bis-Alkynes with Cyanamides**

Llorente V. R. Boñaga, Hong Ye, Han-Cheng Zhang, Alessandro F. Moretto, Diane A. Gauthier, Jian Li, Gregory C. Leo, Bruce E. Maryanoff<sup>\*</sup>

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