DEPARTMENT OF CHEMISTRY

Presents

2010 R. BRYAN MILLER SYMPOSIUM

established in remembrance of R. Bryan Miller (1940 – 1998)

Christopher T. Walsh
2010 Miller Symposium Plenary Speaker

University of California, Davis
UC Davis Conference Center
www.chem.ucdavis.edu/miller

FRIDAY, APRIL 9, 2010
8:30am  Registration and Continental Breakfast
9:00am  Welcome and Introductions
Winston Ko, Dean, Division of Math & Physical Science
College of Letters and Science
9:10am  Heike Wulff, Associate Professor, Department of Pharmacology,
University of California, Davis
“Potassium Channel Modulators: Potential New Drugs for
Immunosuppression and Cardiovascular Diseases”
9:55am  Break
10:10am Gregory D. Vite, Director, Oncology Chemistry for Bristol-Myers
Squibb R&D
“Discovery of IXEMPRA (ixabepilone), an Epothilone Analogue
for Treatment of Metastatic Breast Cancer”
10:55am Gary A. Flynn, Research Professor, Pharmacology & Toxicology,
The University of Arizona
“Revival of the Chemo-centric Approach: Back to the Future”
11:40am Catered Lunch
1:00pm  Sarvajit Chakravarty, Vice President, Medicinal Chemistry,
Medivation, Inc.
“TGF beta Receptor Kinase inhibitors as Chemotherapeutics:
A case study. The best science does not always yield viable drugs”
1:45pm  Brian M. Stoltz, Ethel Wilson Bowles & Robert Bowles Professor
of Chemistry, Division of Chemistry & Chemical Engineering,
California Institute of Technology
“Complex Natural Products as a Driving Force for
Discovery in Organic Chemistry”
2:30pm  Arthur Wellman, Esq.
Special Address
3:15pm  Break and Student Poster Presentations
4:00pm  PLENARY SPEAKER
Christopher T. Walsh, Hamilton Kuhn Professor of Biological
Chemistry and Molecular Pharmacology, Harvard Medical School
“Nature’s Remarkable Ability to Morph Peptide Scaffolds:
The Thiazolyl Peptide Antibiotics”
5:15pm  Award Presentations
5:30pm  Symposium Concludes
Christopher Walsh is the Hamilton Kuhn Professor of Biological Chemistry and Molecular Pharmacology at Harvard Medical School.

Professor Walsh’s research is focused on biological catalysis, with an emphasis on the design of inhibitors and the elucidation of the chemistry underlying the biosynthesis of a wide range of medicinally active natural products. He and his group have authored over 700 research papers and three influential books: *Enzymatic Reaction Mechanisms; Antibiotics: Origins, Actions, Resistance; Posttranslational Modification of Proteins: Expanding Nature’s Inventory*.

Professor Walsh is a member of the National Academy of Sciences, the Institute of Medicine, the American Academy of Arts and Sciences, and the American Philosophical Society, and his achievements have been recognized by many prestigious awards, including the Cope Scholar, Repligen, Bader and Murry Goodman awards from the American Chemical Society, the Eli Lily and Fritz Lipmann Awards from the American Society of Biological Chemistry and Molecular Biology, and the Promega Award from the American Society of Microbiology.

Professor Walsh has served as Head of the MIT Chemistry Dept. (1982-1987) and the Harvard Medical School Biological Chemistry & Molecular Pharmacology Dept. (1987-1995) and has served as President of the Dana Farber Cancer Institute (1992-1995). He has been a consultant/advisor/director for government, industrial, venture capital and academic institutions, including NIGMS, the Whitehead Institute, the Helen Hay Whitney Foundation, the Howard Hughes Medical Institute, Merck, Roche, Eisai, Abbot, Genzyme, Immunogen, Kosan Biosciences, Sirtis, Millennium, Vicuron, Clarus, MPM Capital, and Health Care Ventures. He has also served on the editorial boards of journals such as *Science* and *Proceedings of the National Academy of Sciences*.

Professor Walsh has taught biochemistry, chemical biology, pharmacology and organic chemistry to graduate students, medical students and undergraduates. He has trained ~70 PhD students and twice as many postdoctoral fellows, and he is faculty director of the Harvard Integrated Life Sciences graduate program, which encompasses 12 graduate programs and serves more than 1000 doctoral students.

**PLEASE MARK YOUR CALENDARS FOR THE 2011 R. BRYAN MILLER SYMPOSIUM**
Thursday, April 7 and Friday, April 8 at UC Davis. We hope you will join us next year!
2010 R. Bryan Miller Symposium
Established in remembrance of R. Bryan Miller (1940–1998)

Over the past 12 years, family, friends, colleagues and industry sponsors have continued to generously support the R. Bryan Miller Memorial Fund. This endowment supports research fellowships for chemistry graduate and undergraduate students, and also helps support the annual Miller Symposium. In 2008, a second endowment was created, the R. Bryan Miller Symposium Endowment, by alumni Sundeep Dugar and Cathy Dugar Angell to secure long-term support for the Miller Symposium, and to help the Miller Committee attract world-class speakers and to expand the program in the years to come.

THANK YOU to all of our donors for supporting this important program!

If you would like to donate to the Miller Memorial Fund, please send your tax-deductible contribution, payable to the UC Regents, to: UC Davis, Department of Chemistry, Attn: R. Bryan Miller Memorial Fund, One Shields Avenue, Davis, CA, 95616. THANK YOU!

PREVIOUS PLENARY SPEAKERS

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<tr>
<th>Year</th>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>2009</td>
<td>Stuart Schreiber</td>
<td>Broad Institute of Harvard &amp; MIT</td>
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<td>2008</td>
<td>Peter Dervan</td>
<td>Department of Chemistry, California Institute of Technology</td>
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<td>2007</td>
<td>Ronald Breslow</td>
<td>Department of Chemistry, Columbia University</td>
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<td>2006</td>
<td>Robert Grubbs</td>
<td>Department of Chemistry, California Institute of Technology</td>
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<td>2005</td>
<td>Madeleine Joullie</td>
<td>Department of Chemistry, University of Pennsylvania</td>
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<td>2003</td>
<td>Larry Overman</td>
<td>Department of Chemistry, University of California, Irvine</td>
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<td>2002</td>
<td>Clayton Heathcock</td>
<td>Dean, College of Chemistry, University of California, Berkeley</td>
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<td>2001</td>
<td>Steven Weinreb</td>
<td>Department of Chemistry, Pennsylvania State University</td>
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<td>2000</td>
<td>Gilbert Stork</td>
<td>Department of Chemistry, Columbia University</td>
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