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**Dr. Carston R. Wagner**Phone:  
612-625-2614**Chemical Biology Workshop**

**"From Bioprobes to Biomaterials"**  
**Chemical Biology Workshop, October 18, 2007**  
**9 a.m. – 4 p.m. Poster Session 4-5:30 p.m.**  
**Great Hall, Coffman Memorial Union**

**Speakers included:****Bioprobes and Biosensors – a.m. session***view lectures by clicking on the name of the speaker***Neal Zondlo, Ph.D. – Chair of Session**

Assistant Professor

Chemistry and Biochemistry, University of Delaware

***"Design of Protein Kinase-Inducible Domains as Genetically Encodable Fluorescent Sensors of Protein Kinase Activity"*****Mark DiStefano, Ph.D.**

Associate Professor

Chemical Biology: Organic Chemistry, University of Minnesota

***"Chemical Biology of Isoprenoid Utilizing Enzymes "*****Steve Kron, MD, Ph.D.**

Associate Professor

Molecular Genetics and Cell Biology, University of Chicago

***"Assaying cellular tyrosine kinase activity for diagnostics and drug discovery"*****Plenary Speaker****Milan Mrksich, Ph.D.**

Professor, Department of Chemistry

Howard Hughes Medical Institute, University of Chicago

***"Engineering Active Interfaces Between Cells and Materials"*****Biomaterials – p.m. session****Phillip B. Messersmith, Ph.D.**

Associate Professor

Biomedical Engineering/Material Science and Engineering, Northwestern University

***"Chemical Biology of Mussel Adhesion: Molecular Aspects of Adhesion and Design of Biomimetic Materials"*****Joel Schneider, Ph.D. – Chair of Session**

Associate Professor

Department of Chemistry and Biochemistry, Department of Materials Science and Engineering, University of Delaware

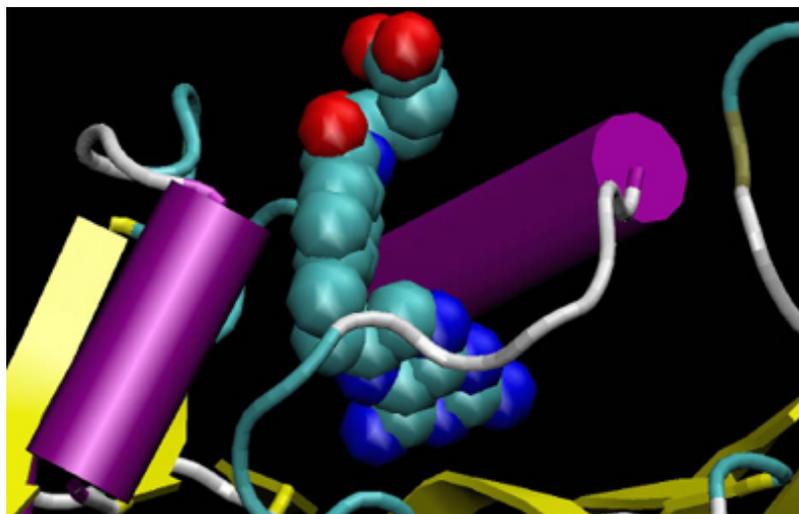
***"Self Assembled Materials for Therapeutic Applications"*****Frank Bates, Sc.D.**

Distinguished McKnight University Professor

Chemical Engineering and Material Science, University of Minnesota

***"Block Copolymer Based Dispersions"***Contact [Amy Olson](#) with any questions.

Email:  
wagne003@umn.edu



CBI Symposium 2006, "Frontiers of Drug Discovery: Chemical Library Development and Screening"

[View the 2006 lectures online here](#)

The ability to design chemical probes capable of modulating and altering biological processes in highly defined ways is essential to carrying out modern biomedical and pharmaceutical research. The aim of this workshop was to inform biomedical, pharmacological, medicinal, computational and chemical researchers at the University of Minnesota of recent advances in chemical library design and screening with the goal of fostering multidisciplinary research projects harnessing these techniques.

The Chemical Biology Workshop was held at the University of Minnesota in Minneapolis, Minnesota May 17, 2006 in the Coffman Memorial Union Theater.

The workshop included the following:

- [Program](#)
- [Speaker Information](#)

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Email:

## Chemical Biology Workshop Program

### Frontiers of Drug Discovery: Chemical Library Development and Screening Coffman Memorial Union Theater (1st Floor)

7:30 a.m.	<b>Registration</b>
8:15 a.m.	<b>Welcome</b>  Carston R. Wagner, Ph.D. University of Minnesota
8:30 a.m.	<b>Library Screening</b>
8:30 a.m.	Anton Simeonov, Ph.D. National Institutes of Health <u>"Quantitative High-Throughput Screening at the NIH Chemical Genomics Center"</u>
9:15 a.m.	Gunda Georg, Ph.D. University of Kansas <u>"Academic Experiences with Chemical Libraries as Research Tools and for Drug Discovery"</u>
9:45 a.m.	<b>Break</b>
10:05 a.m.	Bryan Roth, M.D., Ph.D. Case Western Reserve University <u>"Mining the Receptorome with Small Molecules: A Powerful Approach for Drug Discovery"</u>
10:50 a.m.	Thomas Hoye, Ph.D. University of Minnesota <u>"The Sea Lamprey Migratory Pheromone Story: A Tale of Two Disciplines"</u>
11:20 a.m.	<b>Roundtable Discussion</b>  All Morning Speakers
11:40 a.m.	<b>Lunch: Provided for all Registrants</b>
12:40 p.m.	<b>Chemical Library Development and Natural Products</b>

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12:40 p.m. Derek Tan, Ph.D.  
Memorial Sloan-Kettering Cancer Center  
"Natural Product-based Strategies in Diversity-Oriented Synthesis"

1:25 p.m. Robert Fecik, Ph.D.  
University of Minnesota  
"Structure-based Catalyst Design for Combinatorial Biosynthesis"

1:55 p.m.

**In Silico Library Methods**

1:55 p.m. Matthew Jacobson, Ph.D.  
University of California, San Francisco  
"In Silico Prediction of Ligand Binding and Membrane Permeability Moving Beyond Empiricism"

2:40 p.m. **Break**

3:00 p.m. George Karypis, Ph.D.  
University of Minnesota  
"Structure-Based Virtual Screening and Retrieval Algorithms Drug Discovery"

3:30 p.m.

**Small Molecules as Biological Tools**

3:30 p.m. Junying Yuan, Ph.D.  
Harvard University  
"Dissecting Cell Death Signaling Using Small Molecules"

4:15 p.m. Scott Selleck, M.D., Ph.D.  
University of Minnesota  
"Modulating the Function of Heparan Sulfate with Small Molecule Effectors of Biosynthesis: From Chemical Libraries to Zebrafish Embryos"

4:45 p.m.

**Roundtable Discussion**

Afternoon Speakers

5:05 p.m.

**Closing Remarks**

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## Chemical Biology Workshop: Speakers



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University of Minnesota  
Welcome



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National Institutes of Health  
Library Screening  
["Quantitative High-Throughput Screening at the NIH Chemical Genomics Center"](#)



[Gunda Georg, Ph.D.](#)  
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["Academic Experiences with Chemical Libraries as Research Tools and for Drug Discovery"](#)



[Bryan Roth, M.D., Ph.D.](#)  
Case Western Reserve University  
Library Screening Mining

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"Mining the Receptorome with Small Molecules: A Powerful Approach for Drug Discovery"



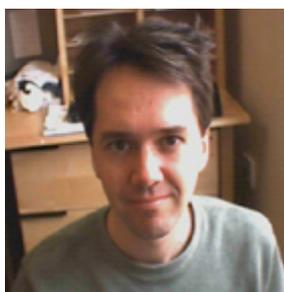
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