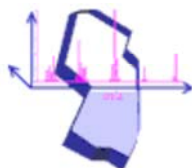


**NJ-ACS** *North Jersey Section*  
**American Chemical Society**

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*Mass Spectrometry Discussion Group*



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**Benefactors & Sponsors**

**We need your help**  
**For more info contact:**  
**Chair – Duxi Zhang**



**Our 2008 Benefactors**

The Benefactors have sponsored an MSDG meeting in 2008



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**The NJ Mass Spectrometry Discussion Group Proudly Presents the November Symposium**

**Sponsored by Waters**

**at the Holiday Inn, Somerset, NJ on November 11, 2008**

**“New Approaches to Structural Elucidation”**

Presentation I:

**“Hydrogen/Deuterium Exchange Mass Spectrometry for the Analysis of Protein Conformation and Dynamics”**

Prof. John R. Engen, *Northeastern University*

**Abstract:** Mass spectrometry can be applied to a variety of analytical problems. One of the less utilized areas of mass spectrometry is the analysis of protein conformation and dynamics. By labeling protein molecules under physiological conditions, either covalently or non-covalently, information can be captured about their folded state. Hydrogen exchange methods non-covalently label the backbone amide hydrogens of proteins with deuterium and the location and magnitude of the labeling can then be determined with mass spectrometry. Several examples of the utility of hydrogen exchange methods will be shown for viral accessory proteins and proteins of importance to the biotechnology and pharmaceutical industries.

Presentation II:

**“High-Throughput Metabolite ID in Drug Discovery and Development”**

Dr. Philip Tiller, *Merck*

**Abstract:** Metabolite ID plays a crucial role in both drug discovery and development, it's impact in the drug discovery space is limited by the sample cycle-times frequently involved. The approaches we have typically used to identify metabolites have practical limitations that we have accepted and learned to live with because we had no better tools available. In recent years the advent of modern HRMS systems that offer robust, routine, reliable sub 5 ppm mass accuracies, has enabled us to make a paradigm

shift in the efficiency with which we conduct our metabolite ID studies.

Another area where the new generation HRMS systems have offered enhanced capability is in the assessment of circulating human metabolites. Fractional mass filtering offers an approach that enables us to address the recent guidance from the FDA, without resorting to the costly exercise of synthesizing GMP quality labeled compounds.

Both of these applications of HRMS in metabolite identification will be discussed, based on methodologies currently in-place within DMPK at Merck.



**Registration will open after the Oct 29th meeting.**

### MS Awards

NJACS-MSDG sponsors five awards for the promotion of mass spectrometry in the greater New Jersey region. (including New York/Connecticut/ Pennsylvania/Delaware).

#### New Jersey Regional Award for Achievements in Mass Spectrometry

- (1) [Eligibility/Nomination Form](#) (pdf)
- (2) [Past Recipients](#)

#### New Jersey Early Career Award in Mass Spectrometry

- (1) [Eligibility/Nomination Form](#) (pdf)
- (2) [Past Recipients](#)

#### New Jersey Distinguished Service Award in Mass Spectrometry

- (1) [Eligibility/Nomination Form](#) (pdf)
- (2) [Past Recipients](#)

#### NJACS-MSDG Student Travel Award

- (1) [Eligibility/Nomination Form](#) (pdf)
- (2) [Past Recipients](#)

#### NJACS-MSDG Distinguished Lectureship

- (1) [Past Recipients](#)

### CONGRATULATIONS TO

**Meiqian Qian** – Recipient of the 2007 New Jersey ASMS Student Travel Award

### Please Note:

Nominations for NJACS MSDG awards are open for 2007. Please see the [eligibility forms](#) for further information.

Student ASMS Travel Award application is due April 15, 2007. Early Career Award, Distinguished Service Award, and Regional Achievement Award applications are due June 30, 2007.

### Our 2008 Sponsors

The Sponsors have given MSDG unrestricted donations in 2008 .

