

# Chicago Area NMR Discussion Group

November 4, 2017

Pfizer Lake Forest Campus

375 North Field Drive, Building H3 Lake Forest, Illinois 60045

- 8:00-8:30 Registration and Breakfast  
Local Host: **Dr. Edward R. Zartler and Pfizer**
- 8:30-8:40 Welcome
- Session I: Yoshitaka Ishii, Tokyo Institute of Technology
- 8:40-9:00 **Dennis Piehl**, University of Illinois, Urbana-Champaign  
Structural Investigations of Cardiac Light Chain Amyloidosis
- 9:00-9:20 **Robert Marti**, Washington University in St. Louis  
CO<sub>2</sub> Dynamics in Pure and Mixed-Metal MOFs with Open Metal Sites
- 9:20-10:10 **Keynote: Prof. Song-I Han**, University of California, Santa Barbara  
The effect of spin dynamics in dynamic nuclear polarization
- 10:10-10:30 Coffee Break
- Session II: Chad Rienstra, University of Illinois, Urbana-Champaign
- 10:30-11:00 **Prof. Alexander Barnes**, Washington University in St. Louis  
Electron Decoupling and Dynamic Nuclear Polarization with Pulsed Microwaves
- 11:00-11:30 **Prof. David Weliky**, Michigan State University  
Solid-state NMR protein -<sup>13</sup>C to lipid-<sup>2</sup>H REDOR measurements support a novel beta-bowl insertion of the HIV fusion peptide with preference for peptide contact with cholesterol over phosphatidylcholine
- 11:30-11:50 **Yusuke Okuno** University of Wisconsin Madison  
Laser- and Cryogenic- Probe-Assisted NMR Enables Efficient Analysis of Amino Acids and Proteins at Low-Micromolar and Sub-Micromolar Concentration
- 12:00-1:30 Lunch and Poster Session
- Session III: Christina Szabo, Baxter
- 1:30-1:50 **Dr. Cassie Yang**, Baxter  
Drug Product Comparability Assessment by NMR
- 1:50-2:20 **Prof. Vincenzo Venditti**, Iowa State University  
Mechanistic Insight into Nanoparticle Surface Adsorption by Solution NMR Spectroscopy in an Aqueous Gel

- 2:20-3:10      **Keynote: Dr. Andy Byrd**, National Cancer Institute  
Allostery and Dynamics Create Processivity in Ubiquitination
- 3:10-3:30      Coffee Break
- Session IV: Justin Lorieau, University of Illinois, Chicago
- 3:30-3:50      **Azamat Galiakhmetov**, Marquette University  
Application of <sup>13</sup>C-MMTS labeling to probe redox states of NADPH-cytochrome P450 oxidoreductase
- 3:50-4:10      **Dr. Hesam Dashti**, University of Wisconsin-Madison  
NMRbox
- 4:10-4:30      **Prof. Steven Van Doren**, Missouri University  
Carbohydrate-Enzyme Docking at Modest Affinity: Electrostatic Recognition between Heparin and the MMP-7 Zymogen
- 4:30-5:00      **Dr. Clemens Anklin**, Bruker Biospin  
Recent Advances in Experiments and Software for Structure Elucidation and Verification

## Sponsors



NORELL®

