

# High Throughput Screening Symposium

## Poster Session

Co-sponsored by the KU-CMLD & COBRE CCET  
March 12, 2007

### 1. Tandem Heck-Michael: A New Approach to Sultams

*Alan Rolfe, Thiwanka Samarakoon, Kyle Young and Paul R. Hanson*

Department of Chemistry and: the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Hanson, Samarakoon); University of Kansas Center for Cancer Experimental Therapeutics COBRE (Rolfe); University of Kansas Pilot-Scale Libraries project (Young)

### 2. Sultam Libraries: Intramolecular Heck Approach

*Dinesh Rayabarapu, Aihua Zhou, Jennifer Guerra and Paul R. Hanson*

Department of Chemistry and: the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Hanson, Guerra); University of Kansas Pilot-Scale Libraries project (Rayabarapu, Zhou)

### 3. Sultam Libraries: Diels-Alder and Ring-Opening Approach

*Dinesh Rayabarapu, Alan Rolfe, Josh Wewel, Kyle Young, Kelly Volp, Dustin Mosley and Paul R. Hanson*

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### 4. Capture, ROMP, Cuprate Release: A New Method for Library Development

*Toby Long, Josh Waetzig, Maria Jiménez, Paul R. Hanson, Daniel Flynn*

Department of Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Long, Jiménez, Hanson); and Deciphera Pharmaceuticals, LLC, Lawrence, KS (Flynn)

### 5. Phosphate Tethers in Synthesis: Application to Complex Natural Products

*Alan Whitehead, Joshua D. Waetzig, James P. McParland, Christopher D. Thomas, DeAnna M. Travis, Phanindra Venukadasula, and Paul R. Hanson*

Department of Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Hanson)

**6. Fluorous Phototriggers: Efficiency, Variability, and Mechanistic Features**

*Kenneth F. Stensrud and Richard S. Givens*

Department of Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**7. Light as a Traceless Reagent for Maleimide Based Combinatorial Libraries: A New Application of pHP Phototriggers**

*Chamani Perera and Richard S. Givens*

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**8. Compound Libraries Based on the *Stemona* Alkaloid Skeleton**

*Kevin J. Frankowski, Ben Neuenswander and Jeffrey Aubé*

Department of Medicinal Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**9. Synthesis of Cyclic Peptidomimetics Inspired by  $\gamma$ -Turns and Applications to Library Designs**

*Jeffrey Aubé and Erik Fenster*

Department of Medicinal Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**10. Stereoselective, De Novo Synthetic Route to a Combinatorial Library of Peptide-Linked Nucleosides**

*Wing (Kevin) C. Poon and Apurba Dutta*

Department of Medicinal Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**11. New Multicomponent Transition Metal-Catalyzed Method for Parallel Synthesis of Combinatorial Libraries of Hexahydro-1H-Isoindolones**

*Lei Zhang and Helena C. Malinakova*

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**12. Combinatorial Synthesis of Libraries via Hydroarylations**

*Kelin Li and Jon A. Tunge*

Department of Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**13. N-Vinylpyridinium and -ammonium Tetrafluoroborate Salts: New Electrophilic Coupling Partners for Pd(0)-Catalyzed Cross-Coupling Reactions**

*Neil Brown, Machiko Minatoya and Keith R. Buszek*

The Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS; Kenneth A. Spencer Chemical Laboratories, Department of Chemistry, University of Missouri-Kansas City, KC, MO

**14. Design and Synthesis of Medium-Ring Lactam Libraries Inspired by Octalactin-A**

*Neil Brown, Baohan Xie, Tiffany L. Coleman, James K. Mansfield, Machiko Minatoya, Ge Gao, Ashley Kearney, Youngmee Jeong, Nagaaki Sato and Keith R. Buszek*

The Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Buszek); Department of Chemistry, Kansas State University, Manhattan, KS (Sato, Jeong); and Kenneth A. Spencer Chemical Laboratories, Department of Chemistry, University of Missouri-Kansas City, KC, MO (Buszek, Brown, Mansfield, Xie, Coleman, Kearney)

**15. Preparation and Evaluation of Hsp90 C-Terminal Inhibitory Libraries**

*Yung-tzung Huang and Brian S. J. Blagg*

Department of Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS

**16. Parallel Synthesis using Dipolar Cycloadditions: Pyrazolines and Isoxazolidines**

*Shankar Manyem, Mukund P. Sibi and Apurba Dutta*

Department of Medicinal Chemistry and the Center for Chemical Methodologies and Library Development, University of Kansas, Lawrence, KS (Manyem, Dutta); Department of Chemistry & Molecular Biology, North Dakota State University, Fargo, ND (Sibi)

**17. Frequent Subgraph Mining for Chemical Compound Classification with SVM**

*Aaron Smalter, Luke (Jun) Huan and Gerald H. Lushington*

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