

45th National Organic Chemistry Symposium

Poster Sessions

University of California, Davis

The Robert and Margrit Mondavi Center for the Performing Arts

For each night's poster sessions, prizes for the two best posters will be awarded. The Poster Awards are sponsored by the following ACS Journals:

Sunday: ACS Omega - Poster Awards will be presented Monday morning by Dean Tantillo, University of California, Davis

Monday: Organic Letters – Poster Awards will be presented Tuesday morning by Sarah Reisman, California Institute of Technology

Tuesday: The Journal of Organic Chemistry – Poster Awards will be presented Wednesday morning by Scott Miller, Yale University

Wednesday: Organometallics – Poster Awards will be presented Thursday morning by Robert Bergman, University of California, Berkeley

Sunday, June 25, 2017

Poster #	Poster Title	Authors (*Presenting)	Affiliation(s)
S-1	An Investigation of Substituent Effects on the Electrophilicity of Oxypyridinium Salts	Philip Albinak*	Ball State University
S-2	Tunable, Selective Silver-Catalyzed Aminations and Oxidative Derivatization of Amines	Juliet M. Alderson*, Jared W. Rigoli, Cale D. Weatherly, Alicia M. Phelps, Ryan J. Scamp, Nicholas S. Dolan, Jennifer M. Schomaker	University of Wisconsin-Madison
S-3	Preparation of Dienoic Acids as Intermediates in Syntheses of Diterpenoids	Rameez Ali*, Keveen Flieth, Thomas W. Bell	University of Nevada, Reno
S-4	Theoretical Study of Cu-Catalyzed C-H Imidation of Benzaldehyde-oximes with N-Fluorobenzenesulfonimide.	Iriux Almodovar* [†] , Edwin G. Pérez Hernández [‡] , Carlos E. Puerto Galvis [#]	[†] Universidad de Santiago de Chile; [#] Pontificia Universidad Católica de Chile; [#] Universidad Industrial de Santander
S-5	Synthesis and Evaluation of Peptidomimetic Inhibitors for the Botulinum Neurotoxin	Martin Amezcua*; Ricardo Cruz; Nicholas Salzameda	California State University, Fullerton
S-6	Synthesis of Isoquinoline Alkaloid Derivatives	Abigail K. Frndak, Karine E. Rose, Carolyn E. Anderson*	Calvin College

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S-7	EPR Study of Catalyst Speciation, Off-Cycle Events, and Nonlinear Effects in an Enantioselective Copper(II)-Catalyzed Spiroannulation	Brittany Armstrong*, Richard Saylor, Benjamin Shupe, R. David Britt, Annaliese K. Franz	University of California, Davis
S-8	Enantioselective Total Synthesis of Lupin Alkaloids	Viktor Barat*, Daniel Csokas, Roderick W. Bates	Nanyang Technological University
S-9	Development of a Stereoselective and Scalable Process for the Preparation of a Methylcyclobutanol-Pyridyl Ether	Kallol Basu*, Jeffrey T. Kueth, Robert Orr, Eric Ashley, Marc Poirer, Lushi Tan	Merck & Co.
S-10	Synthesis of Polycyclic Aromatic Hydrocarbons	Marc R. Becker*, Corinna Schindler	University of Michigan
S-11	Natural Products Isolation of Bioactive Glycolipids in Tea, Camellia Sinensis	Jacquelyn Gervay-Hague, Amy Bellinghiere*	Department of Chemistry University of California, Davis
S-12	Tied Back Bispyridyloximes as Novel Agents for Crop Disease Control	Zoltán Benkő*, Larry Creemer, Joe Eckelbarger, Neeraj Sane, Carla Klittich, George Davis, David Young, Stacy Meyer, Nick Wang	Dow AgroSciences
S-13	Metal-free C-H Sulfonamidation of Pyrroles by Visible Light Photoredox Catalysis	Anna Berger*, Andreas U. Meyer, Burkhard König	University of Regensburg (Germany)
S-14	Advances in Copper-Catalyzed Cross-Coupling	Allison M. Bergmann*, Adam Oldham, Wei You, M. Kevin Brown	Indiana University
S-15	Enantioselective Total Synthesis of Cannogenol and Cannogenol-3-O-alpha-L-rhamnoside	Bijay Bhattarai*, Pavel Nagorny	University of Michigan
S-16	Development of Strain-Releasing Methodologies Employing Cyclopropenones	Gregory R. Boyce*	Florida Gulf Coast University
S-17	A Novel Protocol for Synthesis of (Z)-10,11-dihydrobenzo[e][1,2,3]triazolo [1,5- a]azocine	Ronald Brisbois*, Scott Pedersen, Hoang Anh Phan, Tia Eskridge, Claire Schmit	Macalester College, St. Paul, MN

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S-18	Diastereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-directed Enolate Alkylation	Molly Brown*, Natalie Dwulet, Tina Zolfaghari, Daniel Essayan, Jeff Cannon	Occidental College
S-19	The Synthesis of New Precursors to Pentacyclo[4.3.0.0 ^{2,4} .0 ^{3,8} .0 ^{5,7}]non-4-ene	Elise Brutschea*, Amadna Tallon, Linda Bui, Mark Forman	Saint Joseph's University
S-20	Helical-Chiral Pyridines for Catalytic Transformations	Carlyn Reep, Shiyu Sun, Zhili Peng, Maurice Narcis, Norito Takenaka*	Florida Institute of Technology and University of Miami
S-21	Diastereoselective Tamura Cycloadditions with N-Sulfonyl Ketimines	Noah P. Burlow*, Sara Y. Howard, Jared T. Shaw	University of California, Davis
S-22	Gold(I)-Catalyzed Synthesis of 1H-Isochromenes	Dakota D. Butler*, Sarah N. Cantu, Caitlin R. Lacker, Parker L. Wilson, Michael R. Gesinski	Southwestern University
S-23	Highly Selective 5,5-Dimethyl-1,3,4,5-tetrahydrobenz[cd]indole Synthesis by Acid-Catalyzed Intramolecular Alkene Hydroarylation	Xiao Cai*, Cristian Ramirez, Anagu Tuoheti, Hassan Harb, Hrant P. Hratchian, Benjamin J. Stokes	University of California, Merced
S-24	The Influence of Oxidation State on the Selectivity of Bond-Forming Reactions at High-Valent Ni Complexes	Nicole M. Camasso*, Eric G. Bowes, Melanie S. Sanford	University of Michigan and University of British Columbia
S-25	Quantification of Alpha-gold Positive Charge Stabilization in Gold (I) Carbene Complexes	Robert G. Carden*, Nathan Lam, Ross A. Widenhoefer	Duke University
S-26	The Enantioselective Synthesis of Pyrrolopyrimidine Scaffolds through Cation-Directed Nucleophilic Aromatic Substitution	Mariel M. Cardenas*, Christopher J. Nalbandian, Sean T. Toenjes, Jeffrey L. Gustafson	San Diego State University
S-27	Synthesis and in vivo Quantitation of 2'-Deoxyadenosine Adducts Resulting from Bioactivation of 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone and 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol	Erik S. Carlson*, Pramod Upadhyaya, Stephen S. Hecht	University of Minnesota - Twin Cities
S-28	Novel Synthesis of Isoflav-3-enes	Maria G. Carranza*	Westfield State University

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S-29	Phosphonate-Directed Catalytic Asymmetric Hydroboration: Synthesis of Chiral Tertiary Boronic Esters	Suman Chakrabarty*, James M. Takacs	University of Nebraska-Lincoln
S-30	Cobalt-Catalyzed C-O Bond Activation for the Direct Functionalization of Alcohols	Dana Chambers*, Esmat Sodager, Raymond Sullivan, Prof. Dave Martin	University of California, Riverside
S-31	Process Development and Understanding of Cyclization/Deprotection in the Synthesis of MK-3682	Wenyong Chen*, Peter Maligres, Feng Peng, John Limanto, Artis Klapars, Jake Song, Weidong Tong, Guangtao Li, Timothy Nowak, Lin Wang, Meredith Green, Alfred Lee, Robert Dunn	Department of Process Research and Development, Merck
S-32	The Development of New Hybrid Type Squaramide Fused Amino Alcohol Organocatalysts and Its Application to Asymmetric Reactions	Madhu Chennapuram* [†] , U.V. Subba Reddy [†] , Chigusa Seki [†] , Yuko Okuyama [‡] , Eunsang Kwon [#] , Koji Kwai [†] , Michio Tokiwa [§] , Mitsuhiro Takeshita [§] , Hiroto Nakano [†]	[†] Division of Sustainable and Environmental Engineering, Graduate School of Engineering, Muroran Institute of Technology, Japan. [‡] Tohoku Medical and Pharmaceutical University, Japan. [#] Research and Analytical Center for Giant Molecules, Graduate School of Sciences, Tohoku University, Japan. [§] Tokiwakai Group, Japan
S-33	Process Optimization of a Late-Stage Ring-Closing Metathesis (RCM) To Access a 16-Membered Macrocycle	Alan H. Cherney*, Jason. S. Tedrow	Amgen
S-34	Synthesis of APEG-Derivative Surfactants for Study of Polybia-MP1 Structure and Dynamics	Joseph Cheung*, Matthew Roberson, Keveen Flieth, Matthew Tucker, Laina Geary	University of Nevada Reno
S-35	Study of the Behavior of (Z/E) 2-Styrylbenzaldehyde O-Benzylloxime in Aza-6 π Electrocyclization Reactions	Judy M. Cifuentes*, John E. Diaz, Alix E. Loaiza	Pontificia Universidad Javeriana

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S-36	Tunable Visible and Near Infrared Photoswitches	James R. Hemmer, Saemi O. Poelma, Nicolas Treat, Zachariah A. Page, Neil D. Dolinski, Yvonne J. Diaz, Warren Tomlinson, Kyle D Clark*, Joseph P. Hooper, Craig Hawker, Javier Read de Alaniz	Department of Chemistry and Biochemistry and Materials Department, Materials Research Laboratory, University of California, Santa Barbara. Department of Physics, Naval Postgraduate School
S-37	Cyclopentenone Formation via Remote C–H Insertion of Vinyl Cations	Sarah E. Cleary*, Magenta J. Hensinger, Matthias Brewer	University of Vermont
S-38	Synthesis of Vicinal Dichlorides via Established Triphosgene-Pyridine Protocol	Alexander H. Cleveland*, Rendy Kartika	Louisiana State University
S-39	Buchwald-Hartwig Amination of Soft Lewis Basic Heterocyclic Complexant Scaffolds	Jacob W. Cleveland*, Jesse D. Carrick	Tennessee Technological University
S-40	Simple and Sustainable Approach to the Synthesis of Pyrido-indolones	Lucas A. Zeoly, Lais, V. Acconcia, Rodrigo A. Cormanich, Juan C. Paniagua, Albert A. Moyano, Fernando Coelho*	University of Campinas, Department of Organic Chemistry, Brazil
S-41	Catalytic Asymmetric Conjugate Addition of Indolizines to α,β -Unsaturated Ketones	José Tiago Menezes Correia*, Fernando Coelho, Benjamin List	University State of Campinas, Max Planck Institute für Kohlenforschung
S-42	Aqueous Dearomatization/Diels-Alder Cascade for Teaching Labs	Brett Cory*, Giovanni G. Castro, Michael E. Jung, David A. Vosburg	University of California, Los Angeles and Harvey Mudd College
S-43	Extension of the Daphniphyllum Alkaloid Polycyclization Cascade to Longeracemine's Unprecedented Ring System	Joshua B. Cox*, Keita Komine, John L. Wood	Baylor University
S-44	Organocatalyzed Intramolecular Carbonyl-Ene Reactions	Heidi A. Dahlmann*, Amanda J. McKinney, Maria P. Santos, Lindsey O. Davis	Berry College
S-45	Exploring the Scope of Lewis Acid-catalyzed Triplet Energy Transfer: [2+2] Photocycloaddition and Beyond	Mary Elisabeth Daub*, Hawa Keita, Evan M. Sherbrook, Tehshik P. Yoon	University of Wisconsin - Madison

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S-46	Nucleophilic Dynamic Kinetic Resolution of Biaryl-Naphthoquinones Towards Functionally Diverse Atropisomeric Scaffolds	Sean Maddox, Gregory Dawson*, Nick Roschester, Dr. Jeffrey Gustafson	San Diego State University
S-47	Expanding the Utility of the Nickel-Mediated Decarbonylative Cross-Coupling of Substituted Phthalimides	Kimberly S. DeGlopper*, Megan R. Kwiatkowski, Mason C. Yoder, Trey C. Pankratz, Jeffrey B. Johnson	Hope College
S-48	Continuous Flow α -Arylation of N,N-Dialkylhydrazones Under Visible-Light Photoredox Catalysis	Juan A. Vega, José Manuel Alonso, Gabriela Méndez, Myriam Ciordia, Francisca Delgado*, Andrés A. Trabanco	Neuroscience Medicinal Chemistry, Janssen Research & Development
S-49	Total Syntheses of (+) and (-) Tetrapetalone A	Heemal H. Dhanjee*, Yutaka Kobayashi, Jonas F. Buegler, Travis C. McMahon, Matthew W. Haley, Jennifer M. Howell, Koichi Fujiwara, Lee Mains, John L. Wood	Baylor University
S-50	A Highly Convergent Total Synthesis of Dolabriferol C (One-pot Stereoselective Bis-aldol Reactions)	Naveen Diddi*, Dale E. Ward	University of Saskatchewan
S-51	Phosphorus NMR Probe to Quantify Hydrogen-bonding Ability of Silanols, Boronic Acids, and other Highly Utilized Organocatalysts.	Kayla M. Diemoz*, Annaliese K. Franz	University of California, Davis
S-52	An Atroposelective Dynamic Kinetic Resolution of Di-Aryl Ether Naphthoquinones	Andrew Dinh*, Ryan Noorbehest, Jeffrey Gustafson	San Diego State University
S-53	Modular Synthesis and Reactivity Profiling Studies of Diverse C-, S-, and P-based α,β -Unsaturated Macrocycles	Gihan Dissanayake*, Salim Javed, Dimuthu Vithanage, Arghya Ganguly, Paul R. Hanson	Department of Chemistry, University of Kansas
S-54	Silicon 29 NMR Characterization of Per-O-Silylated Sugars	Jacquelyn Gervay-Hague, Andras Domokos*	University of California, Davis
S-55	Competition Studies with Host TETROL and Four Cyclohexanone Guests: A Sleuth's Modus Operandi for Determining the Reasons for the Selectivity Order	Benita Barton, Sasha-Lee Dorfling*, Eric Hosten	Department of Chemistry, Nelson Mandela Metropolitan University, South Africa

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S-56	Rhodium-Catalyzed Intermolecular Conversion of Ketones through C-C Bond Activation	Stanna K. Dorn*, Eric P. Weeda, Chad T. Compagner, Joseph M. Dennis, Jeffrey B. Johnson	Hope College
S-57	Preparation of Novel Hemi-1,2,4-Triazinyl-[2,2']-bypyridines via the Negishi Coupling and Telescoped Condensation Towards Chemoselective Minor Actinide Separations	Ryan P. Downs*, Ai-Lin Chin, Kayla M. Dean, Jesse Carrick	Tennessee Technological University
S-58	Scandium Catalyzed Substitution of Benzylic Alcohols	Julia Duncan*, Lun Li, Laina Geary	University of Nevada, Reno
S-59	Iron-Catalyzed Cross-Coupling Reactions of Arylmagnesiums with Aryl Chlorides and Tosylates	Hung A. Duong*, Han Vinh Huynh, Wenqin Wu, Qiaoqiao Teng, Yi-Yuan Chua	A*STAR's Institute of Chemical and Engineering Sciences, Singapore; National University of Singapore
S-60	N-Heterocyclic Carbenes – Powerful Ligands for Heterogeneous Catalysis	Johannes B. Ernst* [†] , Christian Schwermann [†] , Fei Wang [‡] , Gen-ichi Yokota [‡] , Mizuki Tada [‡] , Nikos L. Doltsinis [†] , Satoshi Muratsugu [‡] , Frank Glorius [†]	[†] University of Münster and [‡] Nagoya University
S-61	Potentially Anticancer Peptides Related to Cryptomaldamide	Nicholas A. Falcone*, Robin B. Kinnel	Hamilton College
S-62	Copper-Catalyzed Approach to Beta-Lactams	Gordon Farley*, Michael Beauchamp, Andre K Isaacs	College of the Holy Cross
S-63	Phosphothreonine as a Catalytic Residue in Peptide-Mediated Asymmetric Baeyer-Villiger Oxidations of Prochiral Cyclobutanones	Aaron L. Featherston*, Scott J. Miller	Yale University
S-64	Total Synthesis of Leuconoxine by Radical Translocation	Andrew J. Ferreira*, Christopher M. Beaudry	Oregon State University
S-65	Synthesis of Isocyanacetates and Its Reaction with Benzaldehyde. New Approach to the Synthesis 1,3-Oxazepines.	Liliana Becerra-Figueroa*, Diego Gamba-Sánchez	Laboratory of Organic Synthesis Bio and Organocatalysis. Universidad de los Andes. Bogotá-Colombia

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S-66	Synthesis of Furanolactone Motifs using Photoredox/Lewis Acid-Catalyzed Ketyl Radical Cyclizations	Jeffrey Cannon, Nicholas Foy, Katherine Forbes*, Max Gruber	Occidental College
S-67	Protective Natural Products from Grass-Endophyte Associations	Jonathan R. Scheerer*, Matt Nelli, Kelsey Miller, A.J. Wright, M. Todd Hovey, Emily Eklund, Margaret Olesen	The College of William & Mary
S-68	Design and Synthesis of Dihydropyrimidine Analogs as BRFT Selective Inhibitors for Male Contraception	Jiewei Jiang*, Alex M. Ayoub, Laura M.L. Hawk, Andrea J. Wisniewski, Neeraj K. Mishra, Ryan J. Herzig, Clifford T. Gee, Peiliang Zhao, Jin-Yi Zhu, Norbert Berndt, Thomas G. Scott, Nana K. Offei-Addo, Jun Qi, James E. Bradner, Ernst Schönbrunn, Timothy R. Ward, William C.K. Pomerantz, Gunda I. Georg	Department of Medicinal Chemistry and Institute for Therapeutics Discovery and Development, University of Minnesota
S-69	Discovery of Selective Inhibitors and Fluorescence Tools for Testis-Specific Bromodomain (BRDT)	Xianghong Guan*, Zhenguan Miao, Carolyn Kingsley, Jon Hawkinson, Gunda I. Georg	University of Minnesota
S-70	Synthesis of Olefins via a One-pot Wittig Reaction and Catalytic Wittig Reaction	Lun Li*, Jared C. Stimac, Laina M. Geary	University of Nevada, Reno

Monday, June 26, 2017

Poster #	Poster Title	Authors (*Presenting)	Affiliation(s)
M-1	Expanding Diversity About the 3,4-Dihydroquinazoline Scaffold: Gaining Access to an Emerging Class of Antimicrobial Compounds	R. Adam Mosey*, Christina Magyar, Tyler Wall, Celina Malcolm, Martha Hutchens	Lake Superior State University
M-2	Synthesis of Highly Functionalized N-Alkylated 2-Pyridones and Indolizines	Carolyn E. Anderson*	Calvin College
M-3	Synthesis and Biological Evaluation of Analogs of Lyngbouilloside and Sch-725674	Arghya Ganguly*, Salim Javed, Gihan Dissanayake, Dimuthu Vithanage, Berl R. Oakley, Paul R. Hanson	University of Kansas

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M-4	A Systematic Investigation of the Structure-Activity Relationships between GBAP and the fsr Quorum Sensing Circuit in <i>Enterococcus faecalis</i>	Brooke Gantman*, Dominic McBrayer, Crissey Cameron, Yftah Tal-Gan	University of Nevada, Reno
M-5	Structural Optimization of Atropisomeric Pyrrolopyrimidine Structures	Sean Toenjes, Valeria Garcia*, Jeffrey Gustafson	San Diego State University
M-6	Quantitation of Vapor Diffusions for Crystallization	Charles Garner*, Michael J. Wen	Baylor University
M-7	Toward the Total synthesis of Salinosporamide A	Hadi Gholami*, Aman Kulshrestha, Kumar Dilip Ashtekar, Olivia K. Favor, Babak Borhan	Michigan State University
M-8	Progress Toward the Total Synthesis of Tylohirsuticine	Elizabeth L. Goldstein*, Hirokazu Takada, Brian M. Stoltz	California Institute of Technology
M-9	Synthesis of 2,5-Dihydro-1H-pyrroles via Iron(III)-Catalyzed Carbonyl-Olefin Metathesis.	Emilia J. Groso, Alexander N. Golonka*, Ryan A. Harding, Taylor M. Sodano, Corinna S. Schindler	University of Michigan, Ann Arbor
M-10	Synthesis and Evaluation of Novel Calcium Channel Agonists with Applications in Lambert-Eaton Myasthenic Syndrome	Erika Gotway*, Kaylan Kerrigan, Michael Frasso, Stephen Meriney, Man Wu, Peter Wipf	University of Pittsburgh
M-11	Total Synthesis of Bioactive Phenolic Natural Products	Gennadii Grabovyi*, Justin Mohr	University of Illinois at Chicago
M-12	Rapid Asymmetric Synthesis of ABBV/GLPG 2222, a Cystic Fibrosis Corrector Clinical Candidate	Steve Greszler*, Xenia Searle, Bhadra Shelat, Xueqing Wang, Eric Voight	AbbVie, Inc.
M-13	Amide Bond Modulation: Cyclic Amines and Manipulating Energy Barriers Using DEET Analogs as a Model System	Jacob Guerra*, Brandi Mayson, Prarthana Kumar, Bhvandip Bajwa, V. V. Krishnan, Santanu Maitra	California State University Fresno
M-14	Copper-catalyzed Reductive Ireland-Claisen Rearrangements for the Synthesis of Allenic Acids	Siyuan Guo*, Kong-Ching Wong, Pauline Chiu	The University of Hong Kong

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M-15	Mechanism of Nakamura's Iron-Catalyzed Asymmetric Cross-Coupling Reaction: The Role of Spin in Controlling Selectivity	Wes Lee, Jun Zhou, Lei Liu, Osvaldo Gutierrez*	University of Maryland College Park
M-16	Functional Group Transformations of pi-Bonded Organic Compounds via Epimetalation Process	Julia Gutsch*, John Gitua	Drake University
M-17	One-Pot Synthesis of α -Carbonyl Bicyclic Furans via a Tandem Diels-Alder/5-Exo-Dig Cyclization/Oxidation Reaction	Khagendra Bahadur Hamal*, Wesley A. Chalifoux	University of Nevada, Reno
M-18	Backbone-Breaking Alkyl Shifts: A Common Theme in Sesquiterpene Biosynthesis?	Christian S. Hamann*, Dean J. Tantillo	Albright College; University of California, Davis
M-19	Structure-Activity Relationship Studies of the Competence Stimulating Peptide (CSP) Signal Utilized by Streptococci Species	Sally Hamry*, Chowdhury Raihan Bikash, Yifang Yang, Bimal Koirala, Lucia Sanchez, Naiya Phillips, Yftah Tal-Gan	University of Nevada, Reno
M-20	Safe, Selective Synthesis of a Trifluoromethyl Pyrimidine	Jianxin Han*, Kelvin Yong, Antonio Ferretti, Nanfei Zou, Richard Heid, John Traverse	Celgene Corporation
M-21	Climbing the Ladder of Complexity: Efforts Towards the Synthesis of Ladderane Natural Products	Erin Hancock*, Nathan Line, Brittany Witherspoon, M. Kevin Brown	Indiana University
M-22	Hiscotropic Rearrangements: Controlling Product Outcomes for a Reaction with a Post-Transition State Bifurcation	Stephanie R. Hare*, Dean J. Tantillo	University of California, Davis
M-23	Base-Controlled Linear or Branched Rh(I)-Catalyzed C-H ortho-Alkylation of Azines without Substrate Preactivation	Gael Tran, Kevin Hesp*, Vincent Mascitti, Jonathan Ellman	Pfizer, Inc and Yale University
M-24	Iridium-Catalyzed Stereoselective Allylic Alkylation Reactions with Crotyl Chloride	J. Caleb Hethcox*, Samantha E. Shockley, Brian M. Stoltz	California Institute of Technology
M-25	Process Development of GS-5734, an Antiviral Nucleotide Analog for the Treatment of Ebola	P. Badalov, K. Brak, A. Chtchemelinine, M. Frick, L. Heumann*, B. Hoang, S. Neville, C. Regens, E. Rueden, A. Stevens, A. Waltman, T. Vieira, L. Wolfe; B. Xu, J. Yu	Process Chemistry, Gilead Sciences, Inc., California

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M-26	Isolation of Neurolepin D and Synthesis of Analogs for Treatment of Lymphatic Filariasis	Peyton M. Higgins*, Anisha Tyagi, Cindy Hu, Megan E. Neubig, Catherine McGeough, Carter Kyle, Susan Mishiyev, Steven A. Williams, Kevin M. Shea	Smith College
M-27	Concise Total Synthesis of Dehaloperophoramidine	Kirill Popov, Anita Hoang*, Peter Somfai	Lund University
M-28	Nickel-Catalyzed Asymmetric Reductive Cross-Couplings with Vinyl Bromide Electrophiles	Julie L. Hofstra*, Naoyuki Suzuki, Kelsey E. Poremba, Alan H. Cherney, Sarah E. Reisman	California Institute of Technology
M-29	A Sequential Cycloaddition Strategy for the Total Synthesis of Alsmaphorazine B and Related Alkaloids	Allen Y. Hong*, Christopher D. Vanderwal	University of California, Irvine
M-30	Oxidative Decarboxylative Coupling Reactions: Development and Mechanistic Insights	Andreas Baur, Lijun Chen, Rob A. Crovak, Aaron P. Honeycutt, Lin Ju, Minghao Li, Jessica M. Hoover*	West Virginia University
M-31	Combining Copper-Catalyzed Hydroboration with Palladium-Catalyzed Suzuki Coupling for the One-pot Synthesis of Arylallylamines under Micellar Conditions	Pedro A. Horn*, Roger K. Braun, Victória G. Isoppo, Jessie S. da Costa, Diogo S. Ludtke, Angélica V. Moro	Federal University of Rio Grande do Sul, Brazil
M-32	Advances in Stereoselective Umpolung and Aldol Reactions and Progress Towards the Total Synthesis of Three Veratrum Alkaloids	Matthew A. Horwitz*, Naoya Tanaka, Takuya Yokosaka, Blane P. Zavesky, Jesus I. Martinez-Alvarado, Jessica A. Griswold, Leslie V. Leiva, Dr. Elisabetta Massolo, Prof. Dr. Daisuke Uruguchi, Prof. Dr. Takashi Ooi, Prof. Dr. Jeffrey S. Johnson	University of North Carolina at Chapel Hill
M-33	Enantiospecific Total Synthesis of the Highly Strained (–)-Presilphiperfolan-8-ol via a Pd-Catalyzed Tandem Cyclization	Pengfei Hu*, Scott A. Snyder	Department of Chemistry, The Scripps Research Institute and Department of Chemistry, University of Chicago

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M-34	Function-Oriented Synthesis of Phosphatidylserine Targeting Drug Conjugate via Click Chemistry	Kuan-Hsun Huang*, Chia-Yu Hsu, Tai-Yu Chiu, Yu-Wei Liu, Yun-Yu Chen, Teng-Kuang Yeh, Jiing-Jyh Jan, Yu-Chen Huang, Chen-Lung Huang, Ming-Yu Fang, Tsu-An Hsu, Chiung-Tong Chen, Lun K. Tsou	Institute of Biotechnology and Pharmaceutical Research, National Health Research Institutes
M-35	The Unexpected Degradation Pathways of Daclatasvir, an Imidazole Derivative, under Forced Photo-Oxidative Degradation Condition	Yande Huang*, Scott A. Miller	Bristol-Myers Squibb Company
M-36	Automated Modeling of Alternative Ligand Conformations in Protein Crystal Structures for Structure-Based Design	Brandi M. Hudson*, Gydo van Zundert, Daniel Keedy, Kenneth Borrelli, Tyler Day, James Fraser, Henry van den Bedem	University of California, San Francisco; Schrödinger
M-37	(5,6-Dihydro-1,4-dithiin-2-yl)methanol as a Versatile Allyl-Cation Equivalent in (3+2) Cycloaddition Reactions	Jan Hullaert*, Mien Christiaens, Johan M. Winne	Ghent University
M-38	Pushing the Limit on Regioselective Deprotonation of Trialkylphosphine-Derived Phosphonium Salts Directed by Cyclic Acetal Protecting Groups	David Hurem*, David McLeod, Arkesh Narayanappa, James McNulty	McMaster University
M-39	Ring Expansion of Cyclic Peptide Thioamides	Jing Shang, Carlie L. Charron, Craig A. Hutton*	University of Melbourne
M-40	Formation, Alkylation and Hydrolysis of Chiral Nonracemic N-Amino Cyclic Carbamate Hydrazones: An Effective Approach to the Enantioselective α -Alkylation of Ketones	Uyen Huynh*, Daniel Lim, Sarah E. Wengryniuk, Stacey L. McDonald, Md. Nasir Uddin, Sumit Dey, Don M. Coltart	University of Houston
M-41	Copper-Catalyzed Approach to Beta-Gamma Unsaturated Amides	André K Isaacs*, Aaron Bosse, Christopher DeTroia, Gregory Tsougranis	College of the Holy Cross
M-42	Peripheral Modifications of $[\Psi[\text{CH}_2\text{NH}]\text{Tpg}4]$ Vancomycin with Added Synergistic Mechanisms of Action Provide Durable and Potent Antibiotics	Akinori Okano, Nicholas A. Isley*, Dale L. Boger	The Scripps Research Institute

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M-43	An Intriguing Concentration-dependent Catalyst Order for a Siloxanol-catalyzed Conjugate Addition Reaction	Jake Ravi Jagannathan*, Kayla Diemoz, Annaliese Franz	University of California, Davis
M-44	Rhodium-Catalyzed Enantioselective Reductive Arylation: Convenient Access to 3,3-Disubstituted Oxindoles	Youngjin Jang*, Egor. M. Larin, Mark Lautens	University of Toronto
M-45	A La(OTf) ₃ -catalyzed Multi-component Reaction for the Synthesis of Malonamides and a Quantitative Binding Study of Lewis Acid Catalysts	Julia J. Jennings*, Alayna H. Nguyen, Blanca I. Gomez, Benjamin W. Wigman, Annaliese K. Franz	University of California, Davis
M-46	An Intramolecular para-Phenolic Allylation Free Radical Cyclization Strategy for the Synthesis of Alkaloids and Terpenes with Spiro[4.5]decane Architectures	Nicholas Jentsch*, Matthew Donahue	University of Southern Mississippi
M-47	Stereodivergent Allylic Substitutions with Aryl Acetic Acid Esters by Synergistic Iridium and Lewis Base Catalysis	Xingyu Jiang*, Jason J. Beiger, John F. Hartwig	University of California, Berkeley
M-48	Phenylethynyl Oxacalixarenes	John Johnson* [†] , Chelsea Soward [†] , John Hammer [†] , Bethany Pertzsch [†] , Kristin Esdale [‡] , Jeff Katz [‡] , KC Russell [†]	[†] Northern Kentucky University, [‡] Colby College,
M-49	Synthesis and Biological Application of Small Molecules to Investigate the Mechanism of Action of the Signal Sequence Specific Small Molecule Cyclotriazadisulfonamide	Dylan E. Jones*, Victor Van Puyenbroeck, Kurt Vermeire, Dominique Schols, Thomas W. Bell	Department of Chemistry, University of Nevada, Reno, Rega Institute for Medical Research, Katholieke Universiteit Leuven, Belgium
M-50	Development of Cu(II) Detection Probes and their Application to Pharmaceutical Compounds	Jiyoung Jung*	Penn State University
M-51	Approach to the Total Synthesis of Gulmirecin A and B	Jessica Jünger*, Rathikrishnan Rengarasu, Martin E. Maier	Eberhard-Karls University of Tübingen
M-52	Total Synthesis of Juglorubin, A Natural Red Dye Containing a Cyclopentadienyl Anion	Shogo Kamo*, Kai Yoshioka, Kouji Kuramochi, Kazunori Tsubaki	Kyoto Prefectural University, Tokyo University of Science

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M-53	Progress Toward the Total Synthesis of Kalihinol A	Alexander S. Karns*, Christopher D. Vanderwal	University of California Irvine
M-54	The Syntheses of (+)-Zincphorin Methyl Ester and Nanographenes: Natural and Unnatural Products through C-C Bond Forming Transfer Hydrogenation	Zachary A. Kasun*, Hiroki Sato, Yasuyuki Mori, Jing Nie, Xin Gao, Radoslaw Lipinski, Michael J. Krische	The University of Texas at Austin
M-55	Toward Solid State Proton Conduction: Evaluation of Carboxylic, Phosphonic and Sulfonic Acid Protogenic Moieties on Tunable Poly(meta-phenylene oxide) Scaffolds	Reuben Hudson, Ramesh Y. Adhikari, Mark T. Tuominen, S. Thayumanavan, Jeffrey L. Katz*	Colby College and University of Massachusetts Amherst
M-56	Expanded Scope of Oxidopyrylium-Alkene [5+2] Cycloaddition Conjugate Addition Cascades	Riley H. Kaufman*, Justin Simanis, C. Marshall Law, Erica L. Woodall, John R. Goodell, T. Andrew Mitchell	Illinois State University
M-57	Synthesis of Cyclopalladated Azobenzenes Coordinated to N-Substituted Imidazolidine-2-thione and Allied Ligands: Molecular Structures, Spectroscopy, Fluorescence and ESI-Mass Studies	Amanpreet Kaur*, Tarlok S. Lobana, Geeta Hundal, Jerry P. Jasinski	Department of Chemistry, Guru Nanak Dev University, India and Department of Chemistry, Keene State College, New Hampshire
M-58	γ -Functionalization of Enones via Silyl Dienol Ethers	Nabeelah I. Kauser*, Xiaohong Chen, Justin T. Mohr	University of Illinois at Chicago
M-59	Synthesis of [2.2.2]-Diazabicyclic Alkaloids	Jonathan Perkins*, Xiye Wang*, Dr. Jonathan Scheerer	The College of William and Mary
M-60	Chemoselective Copper-Catalyzed Ullmann-Type Coupling of Oxazolidinones with Bromiodoarenes	Sean M. Kelly*, Chong Han, Laura Tung, Francis Gosselin	Genentech, Inc.
M-61	Advances in Regioselective Additions to π Systems	Hilary A Kerchner*, John Montgomery	University of Michigan
M-62	Pincer-Ligated Ir(III) Complexes for Alkane Dehydrogenation	Kelly E. Kim*, Karen I. Goldberg	University of Washington
M-63	The Total Syntheses of Aromathecin-, Protoberberine- and Tylophora Alkaloids Enabled by an Cp*Co(III)-Catalyzed Intramolecular C-H Activation/Cyclization Reaction	Tobias Knecht*, Andreas Lerchen, Maximilian Koy, Frank Glorius	University of Muenster

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M-64	Isomerization of Olefins Using Pd(II) Catalysts	Andrew L Kocen*, Maurice Brookhart, Olafs Daugulis	University of Houston
M-65	Probing the Equilibrium Isotope Effects in 1,3-Disiloxanediols	Kavoos Kolahdouzan* [†] , O. Maduka Ogba [†] , Annaliese K. Franz [‡] , Daniel J. O'Leary [†]	[†] Pomona College and [‡] University of California, Davis
M-66	Synthesis of trans-Cinnamyl Ester Derivatives via a Greener Steglich Esterification	Andrew B. Lutjen, Mackenzie A. Quirk, Allycia M. Barbera, Erin M. Kolonko*	Siena College
M-67	Synthesis and Optimization of ClpXP-Inhibitors	Vadim S. Korotkov*, Christian Fetzer, Stephan A. Sieber	Technische Universität München
M-68	N,N-Diarylbenzimidazolium Compounds	Kevin M. Kossick*, Taeboem Oh	California State University, Northridge
M-69	Synthesis and Critical Evaluation of Coumarin and Carbostyryl-sensitized Luminescent Lanthanide Complexes	Daniel Kovacs*, Xi Lu, Livia S. Mészáros, Marjam Ott, Julien Andres, K. Eszter Borbas	Uppsala University
M-70	Cascade Reactions of Nitrones and Allenes – Asymmetric Synthesis of Dihydropyridoindoles and Preparation of Functionalized Indoles	Michelle A. Kroc*, Wiktor H. Pace, Tyler W. Reidl, Dong-Liang Mo, Laura L. Anderson	University of Illinois at Chicago
M-71	Stereoselective Synthesis of the Allo Bile Acids	Michael R. Krout*, Brandon N. Nelson, Samantha P. Kelly, Brett J. Huckstep	Bucknell University
M-72	Biomimetic Syntheses of (±)-Rubrobramide, (±)-Flavipucine, Isoflavipucine, and (±)-Berkeleyamide D	Kouji Kuramochi*, Shoma Mizutani, Kenta Komori, Chiharu Kai, Yasuha Kusakabe, Kazunori Tsubaki	Tokyo University of Science and Kyoto Prefectural University
M-73	Synthesis of Gyramide-Bound Photoaffinity Reagents and Analogs for DNA Gyrase Inhibition	Ada J. Kwong*, Thiago Santos, Lucas C. Moore, Douglas Weibel, Jared T. Shaw	University of California, Davis and University of Wisconsin-Madison
M-74	Fast Track Process Research: Identification and Development of Highly Improved Routes to GDC-0810	Scott Savage*, Theresa Cravillion, Ngiap-Kie Lim, Andrew McClory, Haiming Zhang, Chong Han, Francis Gosselin	Process Chemistry, Genentech Inc.
M-75	ROMP for Pulmonary Antibiotic Delivery	N. Warner*, M. Zhao, D. Ratner, L. Chery, D. O'Leary	Pomona College and University of Washington

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Poster #	Poster Title	Authors (*Presenting)	Affiliation(s)
T-1	Cu ⁺ Interrupts the Concerted Cope Rearrangement of Semibullvalene	Croix J. Laconsay*, Dibyendu Mallick, Sason Shaik	The Hebrew University of Jerusalem
T-2	Exploring New Methodologies for the Treatment of Nuclear Waste using Ligands Containing Soft Donors	Andrew R. LaDuca*, Thomas Neils, John E. Bender, Shannon M. Biros	Dept. of Chemistry, Grand Valley State University, Michigan
T-3	Asymmetric Rhodium-Catalyzed Synthesis of Chiral β -Branched Esters	Summer D. Laffoon*, Kami L. Hull	University of Illinois at Urbana-Champaign
T-4	Synthesis and Evaluation of Insecticidal Thioureas and Isothioureas	William T. Lambert*, Miriam E. Goldsmith, Thomas C. Sparks	Dow AgroSciences, Kelly Services
T-6	Development of Ester-Protected Ethambutol Derivatives for Characterization of Mycobacterial Hydrolase Activity	Erik Larsen*, Dominique Stephens, R. Jeremy Johnson	Butler University
T-7	Catalytic Formal [4+2] Reactions of Imines and Cyclic Anhydrides for the Stereoselective Synthesis of Lactams	Stephen W. Laws*, Lucas C. Moore*, Michael J. Di Maso, Nhu N. Nguyen, Dean J. Tantillo, Jared T. Shaw	University of California, Davis
T-8	Mechanistic Evaluation of Diboron(II,II)-Mediated Pd-Catalyzed H Atom Transfer From Water	Thanh-Ngoc Le*, Steven P. Cummings, Jose Alvarenga*, Alberto R. Navarro Brito, Hassan Harb, Hrant P. Hratchian, Benjamin J. Stokes	University of California, Merced
T-9	Synthesis of Cyclotriazadisulfonamide Analogues Towards the Down-modulation of CD4.	Truc D. Le*, Dominique Schols, Kurt Vermeire, Thomas W. Bell	University of Nevada, Reno and the Rega Institute for Medical Research, Katholieke Universiteit Leuven
T-10	Titanium-mediated Synthesis of Cyclobutane Derivatives	Nathan N. Le*, Aimee M. Rodriguez, Jillian M. Bradley, Renee E. Walker, James R. Alleyn, Michael R. Gesinski	Southwestern University
T-11	Total Synthesis of (\pm)-Waihoensene	Hongsoo Lee*, Hee-Yoon Lee	Korea Advanced Institute of Science and Technology

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T-12	Internal Oxidizing Directing Groups: A Toolkit in C-H Activation for the Efficient Construction of Valuable Target Molecules	Andreas Lerchen*, Tobias Knecht, Suhelen Vásquez-Céspedes, Constantin G. Daniliuc, Frank Glorius	University of Muenster
T-13	Synthetic Studies Toward the Total Synthesis of Phomoidride D	Joyce Leung*, Aaron Bedermann, Naoto Hama, Graham Murphy, Christopher Schneider, Ping Dong, John L. Wood	Baylor University
T-14	Synthesis of Fluorogenic Probes to Detect Esterase Activity in Mycobacterium tuberculosis	Samantha R. Levine*, Katie R. Tallman, Kimberly E. Beatty	Department of Physiology & Pharmacology - Program in Chemical Biology, Department of Biomedical Engineering, OHSU Center for Spatial Systems Biomedicine, Oregon Health & Science University
T-15	Palladium-NO _x Mediated Aerobic Intramolecular Aminoacetoxylation of Alkenes	Jiaming Li*, Brian M. Stoltz, Robert H. Grubbs	California Institute of Technology
T-16	Catalytic Alkylation of Quinones via Redox Chain Reaction	Xiao-Long Xu, Zhi Li*	ShanghaiTech University
T-17	Highly Regioselective Hydrochlorination of Alkynes with a Novel Chlorinating Reagent	Shengzong Liang*, Rene Ebule, Bo Xu, Gerald B. Hammond.	University of Louisville
T-18	Synthesis and Membrane Permeability Assessment of Novel Cyclic Peptide-Peptoid Hybrids	Chris Limberakis* [†] , Markus Boehm [†] , Rushia Turner [‡] , Siegfried S. F. Leung [#] , Guoyon Bai [†] , Gilles H. Goetz [†] , David A. Price [†] , Spiros Liras [†] , Alan M. Mathiowetz [†] , Matthew P. Jacobson [#] , R. Scott Lokey [‡]	[†] Pfizer, [‡] University of California, Santa Cruz, and [#] University of California, San Francisco
T-19	Efficient Synthesis of MK-8666 Using Highly Regioselective Michael Addition	Zhuqing Liu*, Alan Hyde, Artis Klapars, John Chung, George Zhou, Zhijian Liu, Nobuyoshi Yasuda, John Limanto, Kevin Campos, Benjamin D. Sherry	Merck Research Laboratories

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T-20	Quinone-catalyzed Oxidative Functionalization of Amines	Xinyun Liu*, Ben Haugeberg, Johnny Phan, Shrikant Londhe, Michael Clift	University of Kansas
T-21	Visible-light Promoted C-S Bonds Formation via Intermolecular Charge-transfer	Bin Liu*, Chern-Hooi Lim, Garret M. Miyakea	Department of Chemistry and Biochemistry, and Materials Science and Engineering Program, University of Colorado Boulder
T-22	Synthesis and Applications of Trifluoromethyl Peroxides	Moriah Locklear*, Patrick Dussault	University of Nebraska Lincoln
T-23	Stereoselective Alkene Carboboration	Kaitlyn M. Logan*, Kevin B. Smith, M. Kevin Brown	Indiana University
T-24	Synthesis of Benzodihydropyranic Structures as 2H-Chromenes Precursors Using an Intramolecular Pummerer Reaction	Alvaro Rodríguez-López*, Diego Gamba-Sánchez	Universidad de los Andes (Colombia)
T-25	Iron-Catalyzed Carbonyl-Olefin Metathesis	Jacob R. Ludwig*, Christopher A. McAtee, Paul S. Riehl, Haley Albright, Emilia J. Groso, Ryan A. Harding, Alexander N. Golonka, Corinna S. Schindler	University of Michigan
T-26	Synthesis of Pyridine-fused Cyclotriazadisulfonamides and Bicyclam Analogs as HIV Entry Inhibitors	Liesel A. Lumangtad*†, Thomas W. Bell†, Dominique Schols‡, Kurt Vermeire‡	†Department of Chemistry, University of Nevada, Reno and ‡Rega Institute for Medical Research, KU Leuven, University of Leuven
T-27	Phi-Catalyzed $\hat{\pm}$ -Tosyloxylation of Cyclopropyl Methyl Ketone	Wuping Ma*†, Richard Ma‡, Daniel Fang†	†SynChem, Inc. and ‡Lake Forest High School
T-28	A Nucleophilic Dynamic Kinetic Resolution of Aryl-Naphthoquinone Atropisomers	Sean M. Maddox*, Gregory, A. Dawson, Jeffrey L. Gustafson	San Diego State University
T-29	Catalysis Facilitates Fragmentation of Lignin	Gabriel Magallanes*, Irene Bosque-Martinez, Mathilde Rigoulet, Markus D. Kärkäs, Corey R. J. Stephenson	University of Michigan

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T-30	Silyloxyallyl Cation: Synthesis of Functionalized 1,4-Diketones and Substituted Pyrroles	Joshua A. Malone*, Joshua P. Van Houten, Moshood O. Ganiu, Binod Nepal, Rendy G. Kartika	Louisiana State University
T-31	5-Acyl-5-phenyl-1,5-dihydro-4H-pyrazol-4-ones – Highly Selective Acylating Reagents for Polyamines and Aminoglycosides	Kostiantyn O. Marichev*, Michael P. Doyle	University of Texas at San Antonio
T-32	Cu-catalyzed γ -alkylation of Enones and γ -hydroxylation of Vinylogous Esters	Jenny S. Martinez*, Hamza Saifuddin, Justin T. Mohr	University of Illinois at Chicago
T-33	The Asymmetric Synthesis of Thujone via a Cycloisomerization Strategy	Kellie M. Martinez*, Gregory R. Boyce	Florida Gulf Coast University
T-34	Total Synthesis of (+)-Callyspongiolide: An Exercise for Ring Closing Metathesis of Terminal Alkyne	Guillaume Mata*, Alois Fürstner	Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany
T-35	Desymmetrization of Fused Heterocycles Derived from Benzene Oxide to Access Highly Substituted Cyclohexanes	Desiree M. Matias*, Jeffrey S. Johnson	University of North Carolina at Chapel Hill
T-36	A Mechanistic Examination of the Influence of Alkene Substitution on Rates of Biomimetic Platinum-Promoted Polyene Polycyclizations	Christina H. McCulley*, Michael J. Geier, Brandi M. Hudson, Michel R. Gagne, Dean J. Tantillo	University of California, Davis and University of North Carolina at Chapel Hill
T-37	Direct C–H Cyanation of Arenes via Organic Photoredox Catalysis	Joshua B. McManus*, David A. Nicewicz	University of North Carolina at Chapel Hill
T-38	Total Synthesis of Lingzhiol	Lea-Marina Mehl*, Martin E. Maier	University of Tübingen
T-39	NaBARF Catalyzed Michael Addition Reactions and Mechanistic Studies	Kelsey M. Mesa*, Hailey A. Hibbard, Sean O. Wilson, Annaliese K. Franz	University of California, Davis
T-40	Insertion of Aryne into Bis(trifluoromethyl)disulfide	Milad Mesgar*, Olafs Daugulis	University of Houston
T-41	Synthesis and Biological Investigations of the Haterumaimide and Lissoclimide Natural Products	Sharon E. Michalak*, Zef A. Könst, Chris D. Vanderwal	University of California, Irvine

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T-42	Metallacycle-mediated Annulative Cross-coupling for the Synthesis of Angularly-Substituted Stereodefined Decalins	Haruki Mizoguchi*, Glenn C. Micalizio	Department of Chemistry, Dartmouth College
T-43	N ₂ O as a Promoter of the Pauson-Khand Reaction	Vahid Mohammadrezaei*, David Ricker, Laina M. Geary	University of Nevada, Reno
T-44	Solvent Effects on Rotational Energy Barriers in Cyclic Amine DEET Analogs	Derek Morrelli*, Jacob Guerra, Prarthana Kumar, Bhvandip Bajwa, V. V. Krishnan, Santanu Maitra	California State University, Fresno
T-45	Cyclization Reactions of Alkynamides and Cyanamides	Seann P. Mulcahy*, Michael A. O'Donnell, Satyam Khanal, Sean P. Wrenn, Junho Song, Kathryn E. Queenan, Jonathan G. Varelas	Providence College
T-46	Synthetic Studies Toward Aspergilline A	Mina C. Nakhla*, John L. Wood	Baylor University
T-47	Interrupted Carbonyl-olefin Metathesis Reaction	Daniel J. Nasrallah*, Jacob R. Ludwig, Rebecca B. Watson, Dr. Joseph B. Gianino, Dr. Corinna S. Schindler	University of Michigan
T-48	One-pot Sequential Strategies for the Synthesis of Polyol Fragments: Applications in Natural Product Synthesis	Cornelius N. Ndi*, Paul R. Hanson	University of Kansas
T-49	Cobalt-Catalyzed C-H Functionalization of Carboxylic Acids	Tung Nguyen*, Olafs Daugulis	University of Houston
T-50	Advancements Towards the Aza-Piancatelli Rearrangement	Gesine K. Veits, Gabrielle Hammersley, Meghan F. Nichol*, Helena C. Steffens, Ember L. Doherty, Javier Read de Alaniz	University of California, Santa Barbara
T-51	Total Synthesis of DAB-1	Scott Niman*, Isaac Wang, Alex Rand, Jeffrey Cannon	Occidental College
T-52	Terdockin - Predicting Binding Modes of Cationic Intermediates for Terpene Synthases	Terrence E. O'Brien*, Steven J. Bertolani, Justin B. Siegel, Dean J. Tantillo	University of California, Davis

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T-53	Microwave-assisted Gold(I)-catalyzed Friedel-Crafts-like Arylation of Benzylic Alcohols to Afford 1,1-Diarylmethanes	James V. Oakley*, Tyler Stanley, Stephanie E. Cain, Robert G. Iafe	California State University San Marcos
T-54	Base Catalysis Enables Access to α,α -Difluoroalkyl(thio)ethers	Douglas L. Orsi*, Brandon J. Easley, Jacob P. Sorrentino, Ashley M. Lick, Ryan A. Altman	The University of Kansas, Department of Medicinal Chemistry
T-55	The SAD DKR of Symmetric Allylic Azides	Amy A. Ott*, Charles S. Goshey, Joseph J. Topczewski	University of Minnesota
T-56	Syk Inhibitor Evolution: Rational Design and Serendipitous Discovery of Kinome Selective Chemotypes	Ryan D. Otte*, J. Michael Ellis, Michael Altman, Neville J. Anthony, John W. Butcher, Brandon Cash, Matthew Christopher, Danielle Falcone, Andrew M. Haidle, James Jewell, Matthew Maddess, Kerrie Spencer, Binyuan Sun, Dilrukshi Vitharana, Youwei Yan, Hua Zhou, Hani Houshya, Alan B. Northrup	Merck Research Laboratories
T-57	The Effect of Proximal Functionality on the Allylic Azide Rearrangement	Mary H. Packard*, James H. Cox, Victoria P. Suding, Joseph J. Topczewski	University of Minnesota
T-58	Copper-catalyzed Enaminone Synthesis Using Donor/Acceptor Substituted Diazo Compounds	Arpan Pal*, Syed R. Hussaini	The University of Tulsa
T-59	Synthesis of Peptides Modeling Domains on PLA2R	Zara Parkinson*, Zain Virk, Anoushka Mullasseril, Dr. Kimberly Brien, Dr. Roberto de la Salud Bea, Dr. Shana Stoddard	Rhodes College
T-60	Optimization of Diarylpentadienones as Chemotherapeutics for Prostate Cancer	Manee Patanapongpibul*, Guanglin Chen, XiaoJie Zhang, Qiao-Hong Chen	California State University, Fresno
T-61	Computational Design, Synthesis and Application of Highly Reducing Organic Photocatalysts	Ryan M. Pearson*, Garret M. Miyake	University of Colorado Boulder

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T-62	Syntheses of Stable Isotope-labeled Precursors for Probing Biosynthetic Pathways of the Cruciferous Phytoalexins Nasturlexins	Q. Huy To, M. Soledade C. Pedras*	University of Saskatchewan
T-63	Synthesis of Amidoximes by Copper-catalyzed Coupling of Aldoximes and Nitrogen Radicals	Carlos Bueno, Edwin G. Pérez*	Escuela de Química, Universidad Industrial de Santander, Bucaramanga, Colombia and Department of Organic Chemistry, Pontifical Catholic University, Santiago, Chile.
T-64	Discrimination Between o-Xylene, m-Xylene, p-Xylene and Ethylbenzene by Host Compound (R,R)-(-)-2,3-Dimethoxy-1,1,4,4-tetraphenylbutane-1,4-diol	Benita Barton, Eric C. Hosten, Pieter Pohl*	Nelson Mandela Metropolitan University
T-65	Allylic Azide Resolution by Friedel-Crafts Alkylation	Matthew R. Porter*, Rami M. Shaker, Cristian Calcanas, Joseph J. Topczewski	University of Minnesota
T-66	Scope and Optimization of the Double Knorr Cyclization: On Route to Novel 1,8-Diazaanthraquinones as Potential Antituberculosis Agents	Allan M. Prior*, Dianqing Sun	University of Hawaii at Hilo
T-68	Process Development of ERK Inhibitor GDC-0994	Nicholas Wong*, Xin Linghu, Hans Iding, Vera Jost, Stefan G. Koenig, Haiming Zhang, C. Gregory Sowell, Francis Gosselin	Genentech Inc.
T-69	Development and Mechanistic Insight into a Palladium-Catalyzed Arylfluorination Reaction of Chromenes	Vaneet Saini*, Richard Thornbury, Talita de Fernandes, Celine Santiago, Eric Talbot, Matthew Sigman, F. Dean Toste, Jeff McKenna	Novartis Institute for BioMedical Research; University of California, Berkeley; University of Utah
T-70	Lewis Base Catalyzed Benzylic Bromination via Triphenylphosphine Selenide	Arianna Ayonon*, Christopher Nalbandian, Jeffrey Gustafson	San Diego State University

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W-1	Study of the Pummerer Reaction as a Method for Chiral Thiochromanes Synthesis	Yovanny Quevedo-Acosta*, Andrés Garzón-Posse, Diego Gamba-Sánchez	Universidad de los Andes (Colombia), Chemistry Department, Laboratory of Organic Synthesis, Bio and Organocatalysis
W-2	Asymmetric Induction in Hydroacylation by Cooperative Iminium Ion – Transition-Metal Catalysis	Ettore J. Rastelli*, Ngoc T. Truong, Don M. Coltart	University of Houston
W-3	Merging Photocatalysis and Prenylation	Manjula Rathnayake *, Jimmie Weaver	Oklahoma State University
W-4	Tetrazolone Based Anion Binders: Proton Transfer vs H-Bonding	Hanyang Zhou, Erika Nord, Sundeep Rayat*	Ball State University
W-5	Metal-catalyzed Cross-coupling Reactions of Functionalized Organozinc Reagents for the Synthesis of β,β -Disubstituted Enones	Heather R. Rensch*, Michael R. Krout	Bucknell University
W-6	The Synthesis of Novel Unnatural Amino Acids in Order to Synthesize Antibiotic Polypeptides	Barry Rich*, Zain Virk, Kimberly Brien, Roberto de la Salud Bea	Rhodes College
W-7	Synthesis of Indene- and Naphthalene-Derivatives from Enynols via Furan Intermediates	Sibylle Riedel*, Martin E. Maier	University of Tübingen
W-8	Microwave-Mediated Nickel-Catalyzed Conjugate Addition Reactions of Arylboronic Acids	Ian J. Rosenstein*, Allison M. Eckert, Christopher C. Powell, Travis J. Roeder, John R. DeGuardi	Department of Chemistry, Hamilton College
W-9	Selectively Trapping Residual Vancomycin with Peptide Analogs to Prevent Colonic Bacterial Stress	Brittany Russ*, Ryan Mull, Yftah Tal-Gan	Department of Chemistry, University of Nevada, Reno
W-10	A Dispersed REU Program on Theoretically Interesting Molecules (TIM)	KC Russell* [◇] , Shannon Birost [†] , Peter Iovine [‡] , Jeff Katz [¶] , Kristine Nolan [§] , Ellen Yezirski [◊]	[◇] Northern Kentucky University, [†] Grand Valley State University, [‡] University of San Diego, [¶] Colby College, [§] University of Richmond and [◊] Miami University

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W-11	Azobenzene Modified Enzyme Inhibitors as Photochromic Modulators for Single-molecule Studies	Karin Rustler*, Matthias Mickert, Hans-Heiner Gorris, Burkhard König	University of Regensburg (Germany)
W-12	Synthesis of Novel Quinoline-5,8-Dione Analogues Related to Lavendamycin	Robert E. Sammelson*, Raheleh Ravanfar, Jenny Nguyen, Justin Giessler	Department of Chemistry, Ball State University
W-13	A Combined Experimental and Computational Study of the Cross Metathesis of Allylic Sulfones.	Rishi R. Sapkota*, Jacqueline M. Jarvis, Tanner M. Schaub, Marat Talipov, Jeffrey B. Arterburn	New Mexico State University
W-14	2-Amidoallyl Cation Intermediacy Towards Enantioselective Beta Functionalization of Enamides	Mirza A Saputra*, Binod Nepal, Nitin S. Dange, Rendy Kartika	Louisiana State University
W-15	Catalyst Controlled Alkene Difunctionalization: Regiodivergent Arylboration of 1,3-Dienes	Stephen R. Sardini*, Professor M. Kevin Brown	Indiana University
W-16	Mechanistic Investigation of (DHQD) ₂ PHAL Catalyzed Enantioselective Chlorination of Olefins	Aritra Sarkar*, Bardia Soltanzadeh, Roozbeh Yousefi, Atefeh Garzan, Dan Steigerwald, Babak Borhan	Michigan State University
W-17	Cu-Catalyzed Three-Component Carboamination of Olefins	Travis L. Buchanan*, Samuel N. Gockel, Kami L. Hull	University of Illinois at Urbana-Champaign
W-18	Diels-Alder/retro-Diels-Alder Sequence for the Synthesis of 2-Pyridones from Diketopiperazines	Nick Angello*, Ryan Perry, Tristan Elmore, Bob Wiley, Prof. Jonathan R. Scheerer	The College of William and Mary
W-19	Development of Novel Photocatalytic and SNAr Reactions for the Facile Access of Functionalized Multifluorinated Arenes	Sameera M. Senaweera*, Jimmie D. Weaver	Department of Chemistry, Oklahoma State University
W-20	A Nitroso-Mediated Methodology for the Synthesis of N–O Heterocycles and Amino Alcohols	Jamie Shaum*, David Fisher, Miranda Sroda, Luis Limon, Javier Read de Alaniz	Department of Chemistry and Biochemistry, University of California, Santa Barbara
W-21	Organic II Course-Based Research Experience: Isolation of Neurolepin D and Synthesis of Analogs	Kevin M. Shea*	Smith College

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W-22	Boron-catalyzed Nucleophilic Activation of Carboxylic Acids	Yohei Shimizu*, Taiki Fujita, Yuya Morita, Tomohiro Yamamoto, Hideoki Nagai, Motomu Kanai	The University of Tokyo
W-23	Enantioselective Iridium-Catalyzed Allylic Alkylation Reactions of Masked Acyl Cyanide Equivalents	Samantha E. Shockley*, J. Caleb Hethcox, Brian M. Stoltz	California Institute of Technology
W-24	Novel Method for the Generation of Precursors to Difluoroenolates and Exploration of Reactivity	Munia F. Sowaileh*, Robert A. Hazlitt, Que-Lynn Tran, David A. Colby	University of Mississippi and St. Jude Hospital
W-25	The Diverse Reactivity of 1-Aza-2-azoniaallene Salts and its Application in the Total Synthesis of (+)-Ibophyllidine	Ramya Srinivasan*, Matthias Brewer	University of Vermont
W-26	Regio- and Diastereoselective Samarium(II)-Mediated Allylic Benzoate Reductions	Trevor Stockdale*, Gregory O'Neil	Western Washington University
W-27	Metal-free Cyclopropanation Of Alkenes Using Iodonium Ylides	Jason Tao*, Carl D. Estrada, Graham K. Murphy	University of Waterloo
W-28	Selective Perfluoro- and Polyfluoroarylation of Oxazolones; Synthesis of Unnatural Polyfluorinated $\hat{\pm}$ -Amino Acids	Kip A. Teegardin*, Jimmie D. Weaver	Oklahoma State University
W-29	Fluorescence Monitoring of DNA Duplex Formation by a Chemically Modified Cytidine Analogue	Kristine C. Teppang*, Dillon D. Burns, Raymond W. Lee, Dr. Melissa E. Lokensgard, Prof. Byron W. Purse	San Diego State University
W-30	Structural Optimization of Atropisomeric Pyrrolopyrimidine RET Kinase Inhibitors	Sean Toenjes*, Sean Maddox, Valeria Garcia, Jeffrey Gustafson	San Diego State University
W-31	Carbon-Carbon Single Bond Activation Leading to Oxidative Coupling with Michael Acceptors	Kathryn Trentadue*, Jacob H. Jansen*, Katherine M. Reed, Gabriella D. Dyke, Janelle K. Kirsch, Erik J. T. Phipps, Caroline E. Gregerson, Jeffrey B. Johnson	Hope College
W-32	Cysteine Thiyl Radicals as Peptide-Based Catalysts for Enantioselective Cyclization	Jonathan M. Ryss, Amanda K. Turek*, Scott J. Miller	Yale University

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W-34	Palladium Catalyzed Allylation of N-Heterocycles: An Advancement from Traditional to Allylic C-H Activation!	Sandeep R. Vemula*, Dinesh Kumar, Gregory R. Cook	North Dakota State University
W-35	Design and Synthesis of S-Benzofuran-3(2H)-ones and their Binding Affinity Study on Estrogen and Progesterone Receptors Protein	Nishant Verma*, Dr. Naseem Ahmed, Dr. Sumit Kumar	Indian Institute of Technology Roorkee
W-36	Modular Synthesis and Reactivity Profiling of Novel P-Stereogenic Phosphates: One-pot, Sequential Enyne Ring-Closing Metathesis/Diels-Alder Reactions	Salim Javed, Dimuthu Vithanage*, Arghya Ganguly, Gihan Dissanayake, Paul R. Hanson	Department of Chemistry, University of Kansas
W-37	Toward Biomimetic Syntheses of Cryptobeilic and Isocryptobeilic acid D	Eun Bin Go, Lee Joon Kim, Shannon P. Wetzler, Kareesa J. Kron, Geneva E. Miller, David A. Vosburg*	Harvey Mudd College
W-38	Synthesis of derivatives of the tripodal TREN-CMPO ligand to increase Ln and An extraction efficiency	Brandon G. Wackerle*, Michael Hudson*, John E. Bender, Shannon M. Biros	Department of Chemistry, Grand Valley State University, Michigan
W-39	Synthesis of Fluorinated 1,5-Benzodiazepines from 2-Fluoro-alk-3-yn-1-ones	Austin Walsh*†, Ariela W. Kaspi-Kaneti†, Roman Dembinski†‡	†Oakland University and ‡Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences
W-40	Catalytic sp ³ -sp ³ Coupling of Sulfonamides	Scarlett M. Walton*, Othman Abdulla, Adam D. Clayton, Duncan M. Gill, Robert A. Faulkner, Craig R. Rice, Joseph B. Sweeney	University of Huddersfield
W-41	Photooxidation and Cycloaddition Catalyzed by Electron-Rich Aromatic Disulfides	Yuchao Deng, Xiaojing Wei, Hui Wang, Yuhan Sun, Timothy Noel, Xiao Wang*	Harvard Medical School
W-42	CF ₂ H ₂ , a Hydrogen Bond Donor	Fang Wang*, Chanan D. Sessler, Martin Rahm, Sabine Becker, Jacob M. Goldberg, Stephen J. Lippard	Massachusetts Institute of Technology

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W-44	Nickel-catalyzed Functionalization of Silyloxyarenes	Eric M. Wiensch*, David P. Todd, John Montgomery	University of Michigan
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W-46	Visible-Light-Accelerated C-H-Sulfinylation of Heteroarenes	Alexander Wimmer*, Andreas Uwe Meyer, Prof. Dr. Burkhard König	University of Regensburg
W-47	Iron-Catalyzed Substitution of Unactivated Alcohols by Sulfonamides	Paul T. Marcyk*, Latisha R. Jeffries, Silas P. Cook	Department of Chemistry, Indiana University Bloomington
W-48	Integrated Process for Biodiesel Production	Michael Wormann*, Martin E. Maier	University of Tübingen, Germany
W-49	Catalytic Enantioselective Synthesis of Cyclobutanes Through [2+2] Cycloaddition of Allenes and Alkenes	Yao Xu*, Michael L. Conner, M. Kevin Brown	Indiana University Bloomington
W-50	Development of Practical Manufacturing Process of Grazoprevir, a Potent NS3/4a Protease Inhibitor for the Treatment of HCV	Feng Xu*, Rich Desmond, Jungchul Kim, Wang Tao, Jake Waldman, Yong-Li Zhong, Hongming Li, Jeonghan Park, Paul Devine	Process Research and Development, Merck & Co., Inc., Rahway, NJ
W-51	Metabolic Profiling of Tea (<i>Camellia sinensis</i>) Glycolipids using Mass Spectrometry	Jacquelyn Gervay-Hague, Crystal S. Ye*	Department of Chemistry University of California, Davis
W-52	Palladium-catalyzed C–S Couplings of Unprotected Indazoles at Room Temperature: Mitigating Ring-opening Isomerization by <i>in situ</i> Deprotonation	Charles S. Yeung*, Jacob M. Ganley	Merck Research Laboratories
W-53	Catalytic Enantioselective Desymmetrization of Dienes via Chlorocyclization	Yi Yi*, Xingliang Ding, Babak Borhan	Michigan State University

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W-55	Copper Catalyzed One Pot Indole Oxidative Dearomatization and Allylic C-H Oxidation	Jun Zhang*, Babak Borhan	Michigan State University
W-56	DBU-catalyzed Regioselective Aldol Reactions to Synthesize Functionalized Molecules	Dongxin Zhang*, Fujie Tanaka	Okinawa Institute of Science and Technology Graduate University
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W-58	Development of a Process for the Friedel-Crafts Acylation, Hydrolysis and Amidation of the Azaindole Core in the HIV Attachment Inhibitor BMS-663068	Bin Zheng*, Steven M. Silverman, Sarah E. Steinhardt, Sergei Kolotuchin, Vidya Iyer, Junying Fan, Dimitri Skliar, Douglas D. McLeod, Michael Bultman, Jonathan C. Tripp, Saravanababu Murugesan, Jason T. Sweeney, Martin D. Eastgate, David A. Conlon	Chemical and Synthetic Development, Bristol-Myers Squibb Company, New Brunswick, NJ
W-59	Iron-Catalyzed Stereoselective Aminofluorination for Unfunctionalized Olefins	Cheng-Liang Zhu*, Deng-Fu Lu, Jeffrey D. Sears, Hao Xu	Georgia State University
W-60	Visible Light Photocatalysis for the Generation and Use of Reactive Azolyl Intermediates for Synthesis	Amandeep Arora*, Jimmie Weaver	Oklahoma State University
W-61	Strain Induced Couplings Mediated by Visible Light	Kamaljeet Singh*, Jimmie Weaver	Oklahoma State University
W-62	Borane-promoted Catalytic Asymmetric Hydrogenation of Tri- and Tetrasubstituted Alkenes	Veronika M. Shoba*, James M. Takacs	University of Nebraska-Lincoln
W-63	X-Ray Spectroscopic Characterization of Organocobalt Intermediates Active in the Pauson-Khand Reaction	J. David Ricker*, Yousoon Lee, Laina M. Geary, Jason Shearer	University of Nevada, Reno

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W-65	Investigations of Organometallic, Organocatalytic, and Base Mediated Methods for the Hydrolysis of 1,3-Dihydro-disiloxanes	Austin T. Kelly*, Annaliese K. Franz	University of California, Davis
W-66	Regio- and Diastereoselective Samarium(II)-Mediated Allylic Benzoate Reductions	Trevor Stockdale*, Gregory O'Neil	Western Washington University
W-67	Development of the 2nd Generation Commercial Route to an HCV NS5b Inhibitor MK-3682	Tyler Davis*, John Limanto, Artis Klapars, Daniel DiRocco, John Chung, Byron Simmons, Alan Hyde, Susan Zultanski, Peter Maligres, Feng Peng, Wenyong Chen, Jamie Dropinski, Yi Ning, Ji Chen, Jacob Waldman, Jake Song, Ed Sherer, Mikhail Reibarkh, Frank Bernadoni, Mona Larsen, Aaron Moment	Process Research and Development, Merck and Co.
W-68	Nucleobase Analogs as Probes for Substrate Recognition and Repair by DNA Glycosylase MutY	Chandrima Majumdar*, Amelia Manlove, Paige McKibbin, Michelle Hamm, Sheila S. David	University of California, Davis
W-69	Fragment Coupling and Constructing Quaternary Carbon Stereocenters Using Carbon Radicals	Peng Zhao*, Yuriy Slusky, Christopher Jamison, Larry Overman	University of California, Irvine
W-70	Photocatalytic Prenylation of Perfluoroarenes	Sonal Priya*, Jimmie Weaver	Oklahoma State University