

- 5:00 INOR 934.** One-step synthesis of substituted 2-(2'-pyridyl)quinoline ligands and investigation of the solution and solid phase behavior of the corresponding gold(III) complexes. **M.D. Sterling**, L. Bishop, A.L. Rheingold, C.H. Larsen
- 5:20 INOR 935.** Synthesis, structure and bonding in metal complexes of P-stereogenic phosphiranes. **J.A. Muldoon**, M. Deegan, R.P. Hughes, D.S. Glueck, C. Moore, A.L. Rheingold

Section D

Renaissance Washington, DC Downtown
Congressional C

Bioinorganic Chemistry

Proteins & Enzymes & Model Systems

S. A. Koch, *Organizer*

M. I. Galinato, M. D. Pluth, *Presiding*

- 1:30 INOR 936.** Selection of peptidic inhibitors against sortase A by using phage display library. **M. Koksai**, N. Ersoz, F. Dudak
- 1:50 INOR 937.** Quantitatively probing photosystem II with a rotating ring disk electrode assembly. **N. Kornienko**, R. van Grondelle, A. Rutherford, E. Reisner
- 2:10 INOR 938.** Fast hydrogen atom abstraction by a hydroxo iron(III) porphyrazine. **H. Gao**, J.T. Groves
- 2:30 INOR 939.** Investigating the bioinorganic chemistry of H₂S using small molecule model systems. **M.D. Pluth**
- 2:50 INOR 940.** OEC model complexes via application of a tunable carboxamide ligand scaffold. **N. McMillion**, J.S. Anderson
- 3:10** Intermission.
- 3:20 INOR 941.** Spectroscopic and electrocatalytic reduction studies of nitrite to NO by human serum albumin-heme. **M.I. Galinato**, E.M. Luteran, G.A. Fye, J.A. Bennett
- 3:40 INOR 942.** Functional role for the [4Fe4S] cluster in human DNA primase as a redox switch using DNA charge transport. **E. O'Brien**, M. Holt, M.K. Thompson, L.E. Salay, A.C. Ehlinger, W.J. Chazin, J.K. Barton
- 4:00 INOR 943.** Revision of hydroxylamine oxidoreductase activities and bacterial ammonia oxidation pathways. **J.D. Caranto**, K.M. Lancaster
- 4:20 INOR 944.** Elucidating the reactivity of ferrous heme-P460 cofactors. **M. Smith**, K.M. Lancaster
- 4:40 INOR 945.** Metallothiolenes revealed as unique chemical chameleons. **J.H. Enemark**, B.W. Stein, J. Yang, R. Mtei, N. Wiebelhaus, D. Kersl, D.L. Lichtenberger, M.L. Kirk

Section E

Renaissance Washington, DC Downtown
Grand Ballroom North

Organometallic Chemistry

Applications to Organic Transformations

N. S. Radu, *Organizer*

D. Lehnher, A. N. Vedernikov, *Presiding*

- 1:30 INOR 946.** Redox activity of carbene ligands: Convergent and divergent radical-type pathways of metal-bound carbene radicals. **B. de Bruin**

- 1:50 INOR 947.** Cp*Ir(III)-catalyzed ortho halogenation of benzamides via C-H bond activation. **A.J. Guzman-Santiago**, E. Ison

- 2:10 INOR 948.** Mechanistic studies of a Re-catalyzed mono-alkylation of phenols. **D. Lehnher**, M.D. Weisel, X. Wang, Y. Lam, H. Sheng, F. Peng, J.R. Naber, K.M. Maloney, I.W. Davies

- 2:30 INOR 949.** Bioinspired Mn(I) catalysts for CO₂ hydrogenation and transfer hydrogenation reactions. **A. Dubey**, J.R. Khusnutdinova

- 2:50 INOR 950.** Nonprecious metal catalysts for hydrogenation, hydrofunctionalization and dehydrogenative coupling reactions. **G. Zhang**

- 3:10 INOR 951.** Withdrawn.

- 3:30 INOR 952.** Large bite angle early transition metal biphenolate complexes as tunable catalysts for amine addition to alkenes. **J. Soltys**, A. Roller, K. Hultzsich

- 3:50 INOR 953.** Mechanistic studies of the Zn(II)/SiO₂-catalyzed hydroamination of alkynes. **A.K. Cook-Sneathen**, C. Cooperet

- 4:10 INOR 954.** Formation of carbazoles and indolines via oxidative intramolecular C-N coupling of amido aryl and amido alkyl Pd(II) complexes with H₂O₂ as oxidant: A mechanistic analysis. **E. Abada**, P.Y. Zavalij, A.N. Vedernikov

- 4:30 INOR 955.** Acceleration of Pd-catalyzed amide N-arylations using co-catalytic metal triflates: Substrate scope and mechanistic study. **J. Becica**, G. Dobreiner

- 4:50 INOR 956.** Expansion of boracarbonylated vinyl arenes: Exploring the synthetic elaboration of the carbon-boron bond through cross-coupling. **T. Perrone**, S. Knowlden, B.V. Popp

- 5:10 INOR 957.** Withdrawn.

Section F

Renaissance Washington, DC Downtown
Grand Ballroom Central

Bioinorganic Chemistry

DNA, RNA & Inorganic Drugs

S. A. Koch, *Organizer*

A. G. Tennyson, Y. Zheng, *Presiding*

- 1:30 INOR 958.** Synthesis, characterization, and biological activity of DNA mismatch-targeting rhodium complexes. **K. Boyle**, J.K. Barton

- 1:50 INOR 959.** Photoactivation of two fluorescent dyes via ruthenium(II) polypyridyl ligand exchange. **T.N. Rohrabough**, J.K. White, C. Turro

- 2:10 INOR 960.** Synthesis and characterization of dinuclear ruthenium complexes as mitochondrial calcium uptake inhibitors. **S.R. Nathan**, J. Urgiles, J. Woods, J. Wilson

- 2:30 INOR 961.** Withdrawn.

- 2:50 INOR 962.** Withdrawn.

- 3:10** Intermission.

- 3:20 INOR 963.** Rhodium-cyanine fluorescent probes for detection and signaling of mismatches in DNA. **A. Nano**, J.K. Barton

- 3:40 INOR 964.** Hydride donation by NAD⁺ in biologically-relevant redox catalysis. **A.G. Tennyson**

- 4:00 INOR 965.** Nanoprecipitation of metal-locages for platinum-based anticancer drug delivery. **Y. Zheng**, Z. Yue, H. Wang

- 4:20 INOR 966.** Withdrawn.

Nanoscale Sensing in Foods & Other Complex Media

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MEDI

Division of Medicinal Chemistry

A. Stamford, *Program Chair*

OTHER SYMPOSIA OF INTEREST:

Chemical Biology of Infectious Disease (see BIOL, Wed)

Drug Discovery: Cheminformatic Approaches (see CINF, Wed)

Glycomimetics as Antibiotic-Sparing Therapeutics for Infectious Disease (see CARB, Sun)

Informatics & Chemical Biology: Identifying Targets & Biological Pathways (see CINF, Tue)

Toxicological Considerations in Antibody Drug Conjugate Design & Development (see TOXI, Tue)

What do Synthetic Chemists Want from Their Reaction Systems? (see CINF, Sun)

SOCIAL EVENTS:

MEDI Hall of Fame Reception (Open), 5:30 PM: Tue

Poster Session & Social Hour, 7:00 PM: Sun, Wed

BUSINESS MEETINGS:

Business Meeting (Open), 5:30 PM: Sun

Executive Committee Meeting (Closed), 8:30 AM: Sun

Long-Range Planning Committee Meeting (Closed), 5:30 PM: Mon

SUNDAY MORNING

Section A

Walter E. Washington Convention Center
Room 146B

Treatment of Chronic Neuropathic Pain

K. A. Jacobson, D. Salvemini, *Organizers*, *Presiding*

- 8:30 MEDI 1.** Purine receptors as drug targets in pain. **K.A. Jacobson**, D.K. Tosh, A. Ciancetta, D. Salvemini

- 9:05 MEDI 2.** A₂ adenosine receptor subtype agonists as novel non-narcotic analgesics for neuropathic pain. **D. Salvemini**, K.A. Jacobson, D.K. Tosh, G. Bennett

- 9:40 MEDI 3.** Design of new antagonists of P2X and P2Y receptors. **C.E. Mueller**

- 10:15 MEDI 4.** Endocannabinoid system as a target for neuropathic pain treatment. **A. Makriyannis**

- 10:50 MEDI 5.** Benzo[c][2,7]naphthyridin-5(6H)-one and 5H-chromeno[3,4-c]pyridine as potent inhibitors of a novel serine/threonine kinase for the potential treatment of neuropathic pain. **C.D. Dzierba**

- 11:25 MEDI 6.** Biasing opioid receptor signaling away from opiate side effects. **L.M. Bohn**, T.D. Bannister

Section B

Walter E. Washington Convention Center
Room 146A

General Orals

A. W. Stamford, *Organizer*

J. R. Allen, *Presiding*

- 8:30 MEDI 7.** 6-(2-Oxo-1-substituted-1,2-dihydropyridin-3-yl)aminoimidazo[1,2-b]pyridazine derivatives as potent, selective, and orally active Tyk2 JH2 inhibitors. **C. Liu**, J. Lin, R. Moslin, J.S. Tokarski, J. Muckelbauer, H. Park, P. Li, D. Wu, J. Strnad, A. Zupa-Fernandez, L. Cheng, C. Chaudhry, C. Huang, J. Chen, C. Chen, H. Sun, P. Elzinga, C. D'Arienzo, K. Gillooly, T.L. Taylor, K.W. McIntyre, L.M. Salter-Cid, L. Lombardo, P.H. Carter, N. Aranibar, J.R. Burke, D.S. Weinstein

- 8:50 MEDI 8.** Discovery of small molecule protease-activated receptor 2 (PAR2) antagonists and agonists using DNA-encoded library (DEL) screening technologies. **D.G. Brown**, A. Ferguson, H. Chen, L. Sundstrom, S. Geschwinder, A. Snijder, M. Saxin, J. Zhang, Y. Wu, H. Souter, D.M. Troast, C. Dumelin, G.A. Brown, R.K. Cheng, C. Fiez-Vandal, R. Cooke, R. Prihandoko, B. Tehan, G. Wiggins, A. Zhukov, M.S. Congreves, B. Teobald, O. Schlenker, Q. Liu, W. Yang, R. Chen, S. Johnstone, R. Burli, N. Dekker

- 9:10 MEDI 9.** Creating the ideal vaccine formulation: Attenuating inflammation while maintaining the adaptive response. **B. Moser**, R.C. Steinhardt, A.P. Esser-Kahn

- 9:30 MEDI 10.** High confidence protein-ligand complex modeling by NMR-guided docking enables early hit optimization. **A. Lingel**, D. Bussiere, A. Proudfoot

- 9:50 MEDI 11.** Identification of potent, selective, and cellularly-active KDM2B inhibitors by utilizing structure- and property-based design. **J. Liang**

- 10:10 MEDI 12.** Selectively targeting MYC expression with nucleic acid binding small molecules. **D. Calabrese**, E. Leon, S. Gaikwad, X. Chen, S. Alden, Z. Phyto, W. Hewitt, T. Hillmiere, K. Walters, B. Mock, J. Schneckloth

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- 10:30** **MEDI 13.** Different modes of activation of the four regulatory pyruvate dehydrogenase kinases by the E2 and E3 binding protein components of the human pyruvate dehydrogenase complex. **E.L. Guevara**, L. Yang, N.S. Nemeria, J. Zhou, F. Jordan
- 10:50** **MEDI 14.** Discovery of a selective androgen receptor degrader (SARD) for treatment of castration-resistant prostate cancer. **Z. Yao**, S.E. Wardell, I. Spasojevic, J.D. Norris, J.A. Katzenellenbogen, D.P. McDonnell, **J.S. Josan**
- 11:10** **MEDI 15.** EGFR triple mutant: Recent set-backs and new hopes in fighting mutant non-small cell lung cancer. **S.A. Laufer**, M. Guenther, M. Juchum, E. Doering, M. Keul, J. Lategahn, H. Tumbrink, J. Engel, D. Rauh
- 11:30** **MEDI 16.** Development and optimization of a selective MYST histone acetyltransferase inhibitor that induces cellular senescence. **D.J. Leaver**, B. Cleary, N. Nuyen, M. Chung, B.N. Sheikh, H. Falk, A.K. Voss, T. Thomas, J.B. Baell
- 11:50** **MEDI 17.** Mnk1/2 and Abl inhibitions for the treatment of blast crisis chronic myelogenous leukemia. **K. Nacro**, J. Cherian, H. Yang, Y. Yeap, Z. Poh, L.R. Chennamaneni, S. Ang, E.S. Tan, A.J. Duraiswamy, A. Poulsen, J.K. Joy, B. Liu, E. Ong, M. Choon, P. Kwek, V. Pendharkar, V. Manoharan, V. Susmitha, C. Low, M. Lee, K. Sangthongpitag, S. Lim, C. Chua, S. Ong, J. Hill, T.H. Keller, A. Matter

Merck Research Award Symposium

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Glycomimetics as Antibiotic-Sparing Therapeutics for Infectious Disease

Targeting P. Aeruginosa Bacterial Lectins & Other Anti-Virulence Strategies

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What do Synthetic Chemists Want from Their Reaction Systems?

Sponsored by CINF, Cosponsored by COMP, INOR, MEDI and ORGN

SUNDAY AFTERNOON

Section A

Walter E. Washington Convention Center Room 146B

General Orals

A. W. Stamford, Organizer, Presiding

- 1:30** **MEDI 18.** Integration of x-ray crystallography, computational modelling and NMR conformational analysis data in fragment-based drug design. **E. Tamani**

Technical program information known at press time.

The official technical program for the 254th ACS National Meeting is available at www.acs.org/WDC2017

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- 1:55** **MEDI 19.** NMR conformational signatures guide the design of macrocyclic drug cell activity and permeability: AstraZeneca case studies. **A.Y. Balazs**, R. Carbajo, N. Davies, E. Chiarparin
- 2:20** **MEDI 20.** Discovery of CC-671: A TTK/CLK2 inhibitor for the treatment of triple negative breast cancer. **J.R. Riggs**
- 2:45** **MEDI 21.** Optimization of macrocyclic ring containing Mcl-1 inhibitors through SAR and rational design. **T. Kohn**
- 3:10** **MEDI 22.** Discovery of GDC-0077: A highly selective inhibitor of PI3K- α that induces degradation of mutant-p110 α protein. **M. Braun**, C. Chan, S. Clausen, K. Edgar, C. Eigenbrot, R. Elliott, N. Endres, L. Friedman, K. Gerland, X. Gu, P. Hamilton, C. Han, E.J. Hanan, R. Hong, P. Jackson, S. Kelly, J. Knight, M. Lee, A. Lu, C. MacLeod, A. McKenzie, M. Nannini, R. Narukulla, A. Nguyen, J. Pang, H.E. Purkey, L. Salphati, D. Sampath, S. Schmidt, L. Schutt, R. Heald, K. Song, M. Ullsch, J. Xin, K. Yeap, A. Young, Z. Zhong, S.T. Staben

- 3:35** **MEDI 23.** Discovery of the JAK1 selective kinase inhibitor AZD4205. **Q. Su**, J. Kettle, N. Grimster, M. Vasbinder, S. Kawatkar, S. Throner, R. Woessner, H. Chen, C. Chuaqui, G. Bebernick, K. Bell, E. Anderson, L. Ruston, J. Winter-Holt, W. Yang, P. Lyne
- 4:00** **MEDI 24.** Discovery of LY3200882: A highly specific and potent TGF β RI small molecule inhibitor. **S. Parthasarathy**

- 4:25** **MEDI 25.** Discovery of BMS-135: An orally active imidazo[2,1-f][1,2,4]triazine pan-CK2 inhibitor for the treatment of cancer. **A.V. Purandare**, K. Zimmermann, W. Johnson, H. Wan, A.C. Hart, C.M. Tarby, L. He, B.E. Fink, A.V. Gavai, G. Vite, Y. Zhao, W. Vaccaro, T. Huynh, H. Mastalerz, J.A. Inghrim, J.S. Tokarski, X. Sang, B. Rupnow, C. Yu, J. Fargnoli, B. Henley, F. Lee, A. Fura, M. Oberneier, P.A. Elzinga, W. Foster, B. Slecaska, P. Arunachalam, A. Gupta, M. Vetrichelvan, N. Raghavan, Z. Yang, A. Mathur, R. Rampulla, D. Wu, P. Li, H. Klei, G. Everlof, S. Zhong, G. Locke, J.T. Hunt, J. Muckelbauer, W. Yong, T. Wong

- 4:50** **MEDI 26.** Discovery of CC-90003: A covalent ERK1/2 inhibitor. **L. Qiao**

Section B

Walter E. Washington Convention Center Room 146A

Biophysical Methods in Drug Discovery

M. J. Blanco, Organizer

N. A. Meanwell, P. M. Scola, K. Yeung, Organizers, Presiding

2:00 Introductory Remarks.

- 2:05** **MEDI 27.** Two photon fluorescence polarization microscopy for imaging and quantifying drug target binding *in vitro* and *in vivo*. **C. Vinegoni**, R. Weissleder
- 2:40** **MEDI 28.** Cryo-EM applications from viruses to nanoparticles. **P.L. Stewart**
- 3:15** **MEDI 29.** Discovering drug leads by practical NMR strategies. **S. Laplante**
- 3:50** **MEDI 30.** Applications of SPR to drug discovery: Understanding LXR β agonist binding profile to two key serum proteins. **M.R. Witmer**, K. Behnia, S. Johngahr, Q. Wang, J. Smalley, D. Calambur, P. Marathe, D. Rodrigues, E.K. Kick
- 4:25** **MEDI 31.** Not all sites are equal: Using biophysics to probe the biological relevance of fragment binding sites. **S. Saalau**

Glycomimetics as Antibiotic-Sparing Therapeutics for Infectious Disease

Targeting Uropathogenic E. coli Bacterial Adhesins & Other Anti-Virulence Strategies

Sponsored by CARB, Cosponsored by MEDI

What do Synthetic Chemists Want from Their Reaction Systems?

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SUNDAY EVENING

Section A

Walter E. Washington Convention Center Hall E

General Posters

A. W. Stamford, Organizer

7:00 - 9:00

- MEDI 32.** New selective 5-HT $_2$ B receptor antagonists for the treatment of fibrosis. **L. Pettersson**
- MEDI 33.** Novel piperidine derivatives: Potent antifibrotic agents. **Z. Ma**, C. Yu, Q. Chen, W. Huang, Z. Wang, C. Zhang, Z. Shen
- MEDI 34.** Discovery of novel benzo[b]thiophene tetrazoles as non-carboxylate GPR40 agonists. **M.R. Player**, H. Huang, M.P. Winters, S.K. Meegalla, S.P. Lee, T. Martin, J. Liu, M. Towers, F. Xu, H. Lim, J. Silva, M. Otieno, E. Arnoult, A. Pocai
- MEDI 35.** GPR40 full agonists for the treatment of type 2 diabetes. **M.R. Player**, S.K. Meegalla, H. Huang, T. Martin, J. Xu, S. Zhao, J. Liu, M. Towers, J. Wang, S.P. Lee, J. Silva, M. Otieno, E. Arnoult, A. Pocai
- MEDI 36.** Discovery of clinical candidate MR1704: A novel isothiazole based GPR40 agonist for diabetes. **M. Okochi**
- MEDI 37.** Discovery of a novel series of heterocycles as potent EP3 antagonists for the treatment of type 2 diabetes. **X. Zhang**, L. Guo, I. Bakaj, M. Rankin, G. Ho, K. Jack, S.P. Lee, L. Norquay, M.J. Macielag
- MEDI 38.** Synthesis of 5-(3-(2-[18F]fluoroethoxy)phenyl)-1,3-dihydro-2H-benzofuro[3,2-e][1,4]diazepin-2-one as a new potential PET radioligand for P2X4 receptor. **M. Wang**, M. Gao, J. Meyer, J. Peters, H. Zarrinmayeh, P. Territo, G. Hutchins, Q. Zheng
- MEDI 39.** Novel and widely-applicable method to uncover pharmacologically active metabolites using metabolic biotransformation, affinity selection-mass spectrometry, and 2D NMR technique. **X. Yang**, P. Pandliker, T. Zhang, E.C. Sherer, R.M. Helmy
- MEDI 40.** Structural optimization of atropisomeric pyrrolopyrimidine RET kinase inhibitors. **S. Toenjes**
- MEDI 41.** Molecular docking of potent Mmp13 inhibitors based on the indole-2-carboxamide scaffold. **J. Stec**, O. Onajole, S. Lun, H. Guo, B. Merenbloom, G. Vistoli, W. Bishai, A.P. Kozikowski
- MEDI 42.** Longitudinal murine biodistribution and MRI study of a gavage-administered gadolinium pegylated metallofullerene nanoparticle. **Y. Kim**, T. Li, D. Smiley, A. Eltahir, D. Karolyi, S. LaConte, H.C. Dorn
- MEDI 43.** Withdrawn.
- MEDI 44.** Urea TrkA kinase inhibitors: How the hinge helped open the door to improved potency. **K. Jones**
- MEDI 45.** Repurposing of a conformationally locked nucleoside scaffold: Enhanced activity at the dopamine and norepinephrine sodium symporters. **D. Tosh**, A. Janowsky, A. Eshleman, E. Warrick, Z. Gao, Z. Chen, E. Gizewski, J. Auchampach, D. Salvemini, K.A. Jacobson
- MEDI 46.** Structure-based fragment growing and serendipity: First discovery of S1 benzylamine-derived potent and selective reversible inhibitors binding to an 'unlocked' conformation of the serine protease Complement Factor D. **T. Yoon**, A. Vulpetti, N. Ostermann, O. Rogel, A. Mac Sweeney, F. Cumini, S. Randl, E. Lorthiois, O. Simic, S. Rüdiger, P. Erbel, **J.K. Maibaum**
- MEDI 47.** Organizing 3D project data for structure-based drug design. **E. Metwally**
- MEDI 48.** Targeting specific interactions to improve EGFR-ligand binding. **N. Li**
- MEDI 49.** MOESa: Application of matched molecular pairs to interactive SAR exploration. **A. Ajamian**
- MEDI 50.** Exploiting solvent effects in drug design and optimization. **C. Williams**
- MEDI 51.** Design, synthesis, and evaluation of potent and selective inhibitors of mono-(ADP-ribosyl)transferases, PARP10 and PARP14. **J. Holeczek**, R. Lease, A. Thorsell, R. Grant, A. Keen, T. Karlberg, H. Schuler, D. Ferraris
- MEDI 52.** Development of azole antifungal analogues to treat cancers dependent on Hedgehog signaling. **K.A. Teske**, J.R. Pace, A.M. DeBerardinis, M.K. Hadden
- MEDI 53.** Development of novel NK3 receptor antagonists with reduced environmental impact. **K. Yamamoto**, H. Ohno, N. Fujii, S. Oishi
- MEDI 54.** Synthesis of [11C]methyl 3-((2,2-difluoro-5H-[1,3]dioxolo[4',5':4,5]benzo[1,2-d]imidazol-6-yl)carbamoyl)benzoate as a new potential PET agent for imaging of casein kinase 1. **M. Gao**, **M. Wang**, Q. Zheng
- MEDI 55.** Strategies for improving flash chromatography efficiency. **J.R. Bickler**, E. Denton
- MEDI 56.** Mass-directed flash purification – a new tool for isolating natural products. **J.R. Bickler**, E. Denton
- MEDI 57.** Synthesis and Structure-Activity Relationship (SAR) of tetra-substituted cyclohexyl diol inhibitors of pan-PIM kinases. **W. Han**
- MEDI 58.** Morphing of antimicrobial peptides towards selective antibiotic agents. **A.T. Mueller**, J.A. Hiss, G. Schneider
- MEDI 59.** Problem-based learning in drug discovery with MOE. **A. Bonin**
- MEDI 60.** Identification and characterization of small molecule scaffolds as inhibitors of the translation synthesis pathway. **Z. Ozen**, M.K. Hadden
- MEDI 61.** Development of affinity probes for identification of the molecular target for a novel series of Rho/MRTF/SRF-mediated gene transcription inhibitors. **D. Kahl**, E. Mathes Lisabeth, S. Haynes, B. Martin, R. Neubig, S.D. Larsen
- MEDI 62.** Asymmetric synthesis of novel antimalarial agents with fluorene core. **J. Schneider**, A. Dassonville-Klimpt, **J. Becker**, P. Sonnet

- MEDI 63.** Small molecule and peptidic ligands as PCSK9-LDLR inhibitors. **S.K. Bhattacharya**, M. Ammirati, K.A. Borzilleri, O. Cheneval, B. Chrunyk, D. Craik, N. Daly, R. Dullea, M.C. Griffor, A.S. Kamlet, C. Limberakis, P. Sahasrabudhe, S. Liu, P.M. Loria, K.F. McClure, E. Menhaji-Klotz, D. Petersen, D.W. Piotrowski, M. Popovska-Gorevski, D. Price, A. Reyes, R.B. Ruggeri, C. Schroeder, K. Song, J. Swedberg, I.A. Stock, M. Tu, J. Withka
- MEDI 64.** Novel Wnt/ β -catenin inhibitors for the treatment of colorectal cancer. **Y. Ai**, W. Yang, Y. Li, Y. Shu, F. Xue
- MEDI 65.** Selective inhibition of Hedgehog (Hh) signaling by analogues of vitamin D3 and calcitriol. **C. Maschinot**, M.K. Hadden
- MEDI 66.** Studies towards the identification of small molecule regulators of SWI/SNF chromatin remodeling. **A. Zaino**, M.K. Hadden
- MEDI 67.** Imine-based dynamic combinatorial chemistry for discovery of multivalent RNA-binding ligands. **A. Umuhire-Juru**, A. Jan, A.E. Hargrove
- MEDI 68.** Diversification of nitrogen containing fused heterocycles for selective recognition and binding to RNA. **N.N. Patwardhan**, B.S. Morgan, J. Forte, A.E. Hargrove
- MEDI 69.** Targeting the EWS-FLI1 pre-mRNA in Ewing sarcoma through small molecule microarray screening. **R. Boer**, C. Neckles, D. Calabrese, G. Rangel-Rivera, S. Kim, N.J. Caplen, J. Schneekloth
- MEDI 70.** Exploiting amino acid differences: Design, synthesis and biological evaluation of substituted pyrido[3,2-*d*]pyrimidines as potent and selective dihydrofolate reductase inhibitors for pneumocystis pneumonia infection. **A. Gangjee**, **K.S. Shah**, M.P. Ravindra, D.W. Seybert, M.T. Cushion
- MEDI 71.** Chemistry of Canadian medical cannabis. **M.M. Lewis**, Y. Yang, E. Wasilewski, L.P. Kotra
- MEDI 72.** Identification of a potent *in vivo* candidate inhibiting SHMT, an underexploited antimalarial target. **G. Schwartz**, M. Witschel, M. Rottmann, U. Leartsakulpanich, P. Chitnansub, K. White, F.N. Diederich
- MEDI 73.** Macrocyclic triazolopyridines as potent inhibitors of myeloperoxidase. **C.H. Hu**, J.M. Smallheer, M.N. Valente, O.S. Halpern, S.J. Jusuf, J. Khan, S.A. Shaw, B.P. Vokits, G.A. Locke, L.M. Abell, F.J. Duclos, R.R. Wexler, E.K. Kick
- MEDI 74.** Design, synthesis, and anti-neoplastic evaluation of dimeric amino-naphthoquinones against acute myeloid leukemia (AML) cells. **P. Truong**, O. Kipe, V. Lam, B.A. Carter-Cooper, S. Dash, R.G. Lapidus, A. Emadi, D. Ferraris
- MEDI 75.** Discovery and characterization of 1*H*-pyrazol-5-yl-2-phenylacetamides as novel, non-urea containing GIRK1/2 potassium channel activators. **S. Sharma**, J.M. Wieting, A.K. Vadukoot, K.K. Abney, T.M. Bridges, B. Vo, A. Anderson, K.D. Wickmane, C. Weaver, C.R. Hopkins
- MEDI 76.** Design and development of new potent and selective inhibitors of NaV1.7. **P. Bergeron**, S. McKerrall, B. Safina, D.P. Sutherland, D.F. Ortwine, T. Nguyen, C.M. Dehnhardt, S. Sun
- MEDI 77.** Novel indole pharmacophore series of irreversible MPO inhibitors. **A. Patnaik**, L. Axford, N. Dales, L.G. Hamann, J. Marcinkeviciene, M. Marro, A.W. Patterson
- MEDI 78.** Novel inhibitors of the NLRP3 inflammasome. **J. Fulp**, L. He, Y. Jiang, S. Zhang
- MEDI 79.** Synthesis of novel tanshinones for probing the inflammatory response in zebrafish. **M.J. Foulkes**, S. Jones, S.A. Renshaw
- MEDI 80.** Small molecule activators of the leukotriene A4 hydrolase enzyme for pulmonary inflammation. **K. Lee**, G. Petrunco, N. Burdick, S.M. Noble, Y.M. Shim, M. Paige
- MEDI 81.** Synthesis, docking and biological evaluation of certain class of nonsteroidal anti-inflammatory drugs as fatty acid amide hydrolase inhibitors. **I.S. Saad**, F.A. Alasmay, M.E. EL-Araby
- MEDI 82.** Anti-proliferative and anti-inflammatory estrogen receptor modulators. **K. Cagasova**, S. Rajalekshmi Devi, A. Arneson, N. Fox, S. Srinivasan, K. Carlson, T. Martin, J.A. Katzenellenbogen, K. Nettles, J.S. Josan
- MEDI 83.** Synthesis of natural 1 α ,20*D*-dihydroxyvitamin D3 as a potent vitamin D receptor agonist and anti-inflammatory agent. **Z. Lin**, H. Chen, A. Belorusova, J. Bolinger, E. Tang, Z. Janjetovic, T. Kim, J. Wu, D.D. Miller, A. Slominski, A. Postlethwaite, R. Tuckey, N. Rochel, W. Li
- MEDI 84.** Phospholipase A2: A pharmaceutical target to diminish inflammation. **V.D. Mouchlis**, J. McCammon, E.A. Dennis
- MEDI 85.** Design and synthesis of curcumin conjugates as potential anti-inflammatory agents. **S.S. Panda**, A.S. Girgis, S.J. Thomas
- MEDI 86.** Selective JAK1 inhibitors for treatment of inflammatory diseases: Design and synthesis. **M.D. Parikh**, R.P. Robinson
- MEDI 87.** Design and synthesis of *N*-alkylated tubulysin analogs and their folate conjugates. **I.R. Vlahov**, F. You, K.Y. Wang, H.K. Santhapuram, H.F. Klein, M. Vetzal, J. Reddy, C.P. Leamon
- MEDI 88.** Pro-Pyrrollobenzodiazepine (pro-PBD) bioconjugates, part 1: Design and synthesis of pro-PBD conjugates containing a cleavable disulfide linker. **I.R. Vlahov**, L. Qi, P.J. Kleindl, S.J. Hahn, K.Y. Wang, J.F. Vaughn, H.K. Santhapuram, M. Vetzal, M. Nelson, J. Reddy, C.P. Leamon
- MEDI 89.** Targeted folate-aminopterin anti-inflammatory conjugates: Synthesis and activity of an enzymatically labile lysine-linked conjugate and its pegylated analogs. **P.J. Kleindl**, F. You, H.K. Santhapuram, H.F. Klein, S.J. Hahn, J. Lu, S. Rao, M. Pugh, V. Cross, C.P. Leamon, I.R. Vlahov
- MEDI 90.** Targeted folate-aminopterin anti-inflammatory conjugates: Optimization of a reductively/enzymatically labile cysteine-derived linker system. **P.J. Kleindl**, F. You, H.K. Santhapuram, J.F. Vaughn, H.F. Klein, J. Lu, S. Rao, M. Pugh, V. Cross, C.P. Leamon, I.R. Vlahov
- MEDI 91.** Pro-Pyrrollobenzodiazepine (pro-PBD) bioconjugates, part 2: Design and synthesis of pro-PBD conjugates containing an enzyme-responsive linker. **I.R. Vlahov**, **N. Zou**, A. Felten, K.Y. Wang, S.J. Hahn, C.P. Leamon
- MEDI 92.** Withdrawn.
- MEDI 93.** Discovery of potent antialloodynic agents for neuropathic pain targeting P2X3 receptors. **Y. Jung**, Y. Kim, H. Lin, J. Cho, J. Park, S. Lee, J. Bae, K. Kang, Y. Kim, A. Pae, H. Ko, C. Park, M. Yoon, Y. Kim
- MEDI 94.** Pyrrolo-triazine derivatives as atypical antipsychotics for the treatment of schizophrenia. **M. Rasheed**, A.K. Shinde, M. Dasoju, S. Gagginapally, V. Middekadi, R. Subramanian, G. Bhyrapuneni, P. Jayarajan, V. Nirogi
- MEDI 95.** Preclinical characterization of indole carboxamide derivatives: Novel, potent and selective muscarinic M1 positive allosteric modulators. **A.K. Shinde**, M. Rasheed, R.K. Badange, V. Reballi, K. Bojja, S. Kommineni, S. Manchineela, V. Goyal, S. Pandey, V. Benade, P. Jayarajan, V. Nirogi
- MEDI 96.** Towards the development of a peptide-PROTAC conjugate targeting a viral protein: Rational design and optimization of a stapled alpha-helical peptide that binds HPV16 E2 protein. **S.L. Richardson**, M.C. Hartman
- MEDI 97.** Synthesis and biological evaluation of phosphoantigens for gamma-delta T cell stimulation. **M.M. Poe**, C. Hsiao, A.J. Wiemer
- MEDI 98.** Synthesis and evaluation of vitamin D3-based probes for cellular target(s) verification. **J. Wen**, M.K. Hadden
- MEDI 99.** Design and synthesis of siderophore-antibiotic conjugates. **J. Jourdan**, A. Dassonville-Klimpt, C. Mullié, J. Becker, P. Sonnet
- MEDI 100.** Design and validation of a peptidomimetic ligand as a translesion synthesis inhibitor. **R. Dash**, M.K. Hadden
- MEDI 101.** Strategies for the modulation of protease-activated receptors (PARs). **D. Gandhi**, M. Majeswski, R. Rosas, T.J. Foster, K. Kentala, A. Stephans, K. Kurtenbach, R. Engel, K. Lucknow, C. Dockendorff
- MEDI 102.** Withdrawn.
- MEDI 103.** Discovery of novel class of alpha selective PI3K inhibitors. **K. Garland**, E.J. Hanan, S.T. Staben, M. Braun, K. Edgar, N. Endres, L. Friedman, A. Nguyen, J. Pang, H.E. Purkey, L. Salphati, S. Schmidt, K. Song, M. Utsch, A. Jaochico, C. Chan, C. Eigenbrot, C. MacLeod, P. Jackson, R. Narukulla, J. Knight, K. Yeap, K. Messick, N. Valle, R. Heald, M. Nannini, P. Hamilton, S. Clausen, A. Young, D. Sampath, R. Hong, M. Lee, T. Blechn, R. Elliott, A. Lu, X. Gu, J. Xin
- MEDI 104.** Discovery of pan-active and isoform selective inhibitors of class I phosphoinositide-3-kinases (PI3Ks) utilizing a DNA-encoded discovery platform. **C.D. Hupp**, D.I. Resnicow, D. Gikunju, M.A. Clark, Y. Zhang, A.D. Keefe, J.W. Cuozzo, E.A. Sigel, P.A. Centrella, M.A. Guie, S. Habeshian, K.M. Kennedy
- MEDI 105.** Potent and selective PI3K δ inhibitors: Structure-activity relationships of 8-alkoxy-2-(benzimidazol-1-yl)-6-morpholinopurines. **J. Li**, B. Safina, Z.K. Sweeney, D.P. Sutherland
- MEDI 106.** Discovery of naldemedine (S-297995): A potent and orally available opioid receptor antagonist for treatment of opioid-induced adverse effects. **M. Inagaki**, M. Kume, Y. Tamura, S. Hara, Y. Goto, T. Hasegawa, N. Haga, K. Koike, H. Chiba, M. Imai, T. Nakamura, S. Mihara, S. Ohnishi, Y. Ishihara, T. Kanemasa, H. Kai
- MEDI 107.** Synthesis and biological evaluation of matrix metalloproteinase 9 inhibitors for cancer therapeutics. **X. Ren**, V. Alford, Q. Gan, M. Awwa, I. Ojima
- MEDI 108.** Addressing a large active site: Inhibition of trypanothione reductase with cyclohexylpyrrolidine-based ligands. **R.E. De Gasparo**, E. Persch, S. Bryson, M. Kaiser, E.F. Pai, R. Krauth-Siegel, F.N. Diederich
- MEDI 109.** Stereoselective synthesis of rhodotorulic acid analogues with potential siderophore properties. **T. Garnerin**, A. Dassonville-Klimpt, **J. Becker**, P. Sonnet
- MEDI 110.** Structure-based drug design of novel ASK1 inhibitors using an integrated lead optimization strategy. **T.S. Gibson**, B. Johnson, A. Farijul, P. Halkowycz, D.R. Dougan, D.C. Cole, S. Swann
- MEDI 111.** Lead identification of activators of the Nrf2 pathway via targeting repression of Bach1. **H. Nie**, A. Davis, J.F. Callahan, R. Carr, J.K. Kerns, A. Lakdawala-Shah, T. Li, B. McClelland, J. Kou, R. Osborn, W. Rumsey, Y. Sanchez, T. Sweitzer, L. Wolfe, J. Yonchuk, H. Yan
- MEDI 112.** Novel thiophene analogs as potential MEK5/ERK5 inhibitor. **M. Gupta**, P.T. Flaherty, A. Bhatt, T. Wright, J. Cavanaugh
- MEDI 113.** Design and synthesis of phenylthiourea emetine analogs for studies in prostate cancer. **N. Idris**, E.S. Akinboye, O. Bakare
- MEDI 114.** Improving solubility, permeability and bioavailability of imatinib using crystal engineering approach with nicotinic acid and glutamic acid. **M. Kumar Gautam**, M. Besan, R. Chadha
- MEDI 115.** Identification of novel 5,6-dimethoxy indan-1-one derivative as potent antiviral agent. **S.A. Patil**, V. Patil, R. Patil, K. Beaman, **S. Patil**
- MEDI 116.** Phosphatase-stable peptidomimetic ligands of the polo-like kinase 1 polo-box domain. **D. Hymel**, T.R. Burke
- MEDI 117.** Exploration of intramolecular protein-protein interaction inhibitors of polo-like kinase 1. **K. Tsuji**, D. Hymel, T.R. Burke
- MEDI 118.** Application of oxime-diversification to optimize ligand interactions within a cryptic pocket of the polo-like kinase 1 polo-box domain. **X. Zhao**, D. Hymel, T.R. Burke
- MEDI 119.** Novel 5-substituted pyrrolo[2,3-*d*]pyrimidines with pyridine glutamate side chain as selective folate receptors and proton-coupled folate transporter substrates: Potential targeted chemotherapeutic agents. **A. Gangjee**, **A.B. Doshi**, L.H. Matherly, Z. Hou, A. Dekhne, C. O'Connor, A. Wallace-Povirk
- MEDI 120.** Design of alkylarylsubstituted targeted thieno[2,3-*d*]pyrimidines as cancer chemotherapeutic agents with fluorine insertion on aryl side chain. **N. Tong**, A. Gangjee, L.H. Matherly, Z. Hou, C.E. O'Connor, A.W. Povirk, A.S. Dekhne

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- MEDI 121.** Optimizing the cystargolide scaffold for the selective treatment of cancer by proteasome inhibition. L. Hallada, D. Niroula, S. Ganegamage, M. Groll, C. Le Chapelain, S. Rogelj, R. Tello-Aburto
- MEDI 122.** Coupled enzyme assay for screening of effector molecules of nicotinamide mononucleotide adenyltransferase (NMNAT). B.A. Haubrich, C. Ramesha, D.C. Swinney
- MEDI 123.** Identification and characterization of a new series of calcium/calmodulin-dependent protein kinase kinase-2 (CAMKK2) inhibitors. Y. Liang, R. Counago, M. Stashko, T. Willson, C. Zhang, W.J. Zuercher, D. Drewry
- MEDI 124.** Palladacycle-facilitated ligand-free Suzuki coupling of hindered aryl bromides yields potent and selective COX-2 inhibitors. M.S. Elsayed, S. Chang, M. Cushman
- MEDI 125.** Design, synthesis and evaluation of 8-(methylamino)-2-oxo-1,2-dihydroquinoline derivatives as novel DNA gyrase and topoisomerase IV inhibitors. F. Ushiyama, H. Amada, T. Yoshizumi, Y. Mihara, J. Yamagishi, A. Masuko, K. Fujita, M. Mima, H. Okumura, H. Sugiyama, N. Ohtake
- MEDI 126.** Evaluation of a FLT3 inhibitor as an anti-leukemic agent for acute myeloid leukemia. P. Jeong, J. Lee, H. Lee, J. Baek, J. Choi, Y. Chin, Y. Choi, Y. Kim, S. Han
- MEDI 127.** Incorporation of a biguanide scaffold enhances uptake by organic cation transporters (OCT) 1 and 2. A. Coutinho, O.N. Obianom, W. Yang, H. Yang, F. Xue, Y. Shu
- MEDI 128.** P38 MAPK kinase inhibitor for steroid insensitive asthma. L. Wu, L. Zhang, L. Zhao, J. Sun, D. Yu, J. Wang, X. Li, S. Han, J. Li, S. Chen
- MEDI 129.** Design, synthesis and biological evaluation of heteroaryl amine derivatives as potential anticancer agents. M. Besan, S. Shrivastava, R. Shrivastava
- MEDI 130.** Method for the analysis and quantification of 3-methylene furanone: A biomarker of oxidative damage to DNA. H.T. Tchienga, M. Bedi, A.C. Bryant-Friedrich
- MEDI 131.** Discovery of (3S,4R)-1-(1-(2-chloro-6-cyclopropylbenzoyl)-4-fluoro-1H-indazol-3-yl)-3-hydroxypiperidine-4-carboxylic acid as potent and selective allosteric inhibitors of ROR γ t for the treatment of autoimmune diseases. H. Zhang, K.J. Barr, N.J. Anthony, C. Correll, H. Ferguson, G. Parthasarathy, J. Maclean, M. Richard, B. Trotter
- MEDI 132.** Design, synthesis, and biological evaluation of flexible acyclic nucleoside analogues against human coronaviruses and filoviruses. M. Yates, A. Falat, K.L. Seley-Radtke
- MEDI 133.** Identification of novel inhibitors of glucose transporter 3 (GLUT3) through structure-based virtual screening. S. Zhang, C. Libby, C.E. Augelli-Szafran, A.B. Hjelmeland, W. Zhang
- MEDI 134.** Withdrawn.
- MEDI 135.** Glutathione as an herbal molecule with potential for zinc chelation therapy. M. Russo, A. Mousavi
- MEDI 136.** Non-psychoactive cannabinoid CBD modulates the orphan receptor GPR3. P. Morales Lázaro, A. Laun, D. Hurst, Z. Song, P. Reggio
- MEDI 137.** Reduced synthesis time of an acidic α -diimine ligand using flow chemistry. J.E. Silver, C. Reber, R. Sargo, E. Bitz, R. Ivy, R. Lewis
- MEDI 138.** Panamanian cyanobacterial metabolite with antitrypanosomal activity. K. Ahmed, C. Spadafora, K.J. Tidgewell
- MEDI 139.** Investigating the impact of pore size and chain length when purifying peptides. J.E. Silver, C. Reber, R. Sargo, E. Bitz, R. Ivy, R. Lewis
- MEDI 140.** Optimal light conditions and nitrogen treatments for growth and for accumulation of phytochemical groups in *Calendula officinalis*. P. Tuladhar
- MEDI 141.** Identification and optimization of 4-anilinoquinolines as selective inhibitors of cyclin G associated kinase. C.R. Asquith, T. Laitinen, J.M. Bennett, P.H. Godol, G.J. Tizzard, J.M. Elkins, T. Willson, W.J. Zuercher
- MEDI 142.** Targeted antitumor agents for the inhibition of one-carbon metabolism associated with purine biosynthesis: Altering sterics, electronics and conformation for tumor selectivity and potency. A. Gangjee, M.P. Ravindra, A. Wallace-Povirk, O'Connor, A. Dekhne, Z. Hou, L.H. Matherly
- MEDI 143.** Discovery of N-substituted 2-phenylcyclopropylmethylamines as functionally selective serotonin 2C (5-HT $_2$ C) receptor agonists for potential use as antipsychotic medications. G. Zhang, J. Cheng, J.D. McConry, P.J. Lorello, B.J. Caldaroni, B.L. Roth, A.P. Kozikowski
- MEDI 144.** Design and synthesis of 1,4-benzodioxane-6-carboxylic acid derivatives for studies in prostate cancer drug development. N. Idris, O. Bakare
- MEDI 145.** Development of thiol specific fluorogenic agents for cell surface thiol imaging in live cells. Y. Alqahtani, S. Wang, X. Guan
- MEDI 146.** Efforts towards the development of new ERR γ modulators via structure-based drug design. C.S. Hampton, K.M. Haynes, S. Banerjee, S. Sitaula, C. Billon, K. Griffitt, J.C. Chrivia, T.P. Burris, J.K. Walker
- MEDI 147.** Targeting inhibitor of apoptosis proteins: Identification of potent dimeric antagonists of IAPs. H.L. Perez, K.S. Kim, E.M. Stang, D.D. Wei, L. Zhang, G. Vite, J.T. Hunt, R.L. Talbott, J. Gan, R.M. Borzilleri
- MEDI 148.** Optimization of quinazoline derivatives as selective MEK5 inhibitors. S.B. Patel, A.J. Motta, P.T. Flaherty, A. Bhatt, T. Wright, J. Cavanaugh
- MEDI 149.** Potent and selective inhibitors of receptor-interacting protein kinase 1 that lack an aromatic back pocket group. G. Hamilton
- MEDI 150.** Novel 6-substituted pyrrolo[2,3-d]pyrimidines with substituted nitrogen bridges and fluorinated benzoyl regioisomers as selective folate receptor substrates and antitumor agents. A. Gangjee, X. Li, A. Wallace-Povirk, O'Connor, A. Dekhne, Z. Hou, L.H. Matherly
- MEDI 151.** Design, synthesis and *in combo* antidiabetic bioevaluation of multitarget phenylpropionic acids. G. Navarrete Vazquez, B. Colín-Lozano, S. Estrada-Soto, J. Almanza-Pérez, X. Xie, U. Mura
- MEDI 152.** Phytochemical approach for therapeutic efficacy enhancement of FeNP: As biomedicine. A. Mubayi, G. Watal
- MEDI 153.** Synthesis of α,β -unsaturated phosphonate esters as DXR inhibitors. K. Heidel, R.C. Brothers, R. Edwards, A. Haymond, H.I. Boshoff, M.J. Meyers, S. Arnett, A. Rodriguez, A.R. Odum, C.S. Dowd
- MEDI 154.** Synthesis of enantiopure 10-norallatretrexone as potential TLR-4 antagonist and opioid receptor ligand. C.A. Herdman, A.E. Jacobson, K.C. Rice
- MEDI 156.** Targeted BET protein degradation for the treatment of acute myeloid leukemia (AML) and acute lymphoma leukemia (ALL). J. Hu, F. Xu, E. Fernandez-Salas, D. McEachern, S. Przybranowski, B. Wen, D. Sun, S. Wang
- MEDI 157.** Design, synthesis and evaluation of potent DNA-alkylating agents for use in antibody-drug conjugates (ADCs). E.E. Reid, K.E. Archer, C. Bai, N.C. Yoder, D. Vitharana, L. Lanieri, M. Bogalhas, R. Wu, Q. Qu, E.K. Maloney, O. Ab, J.F. Ponte, R.V. Chari, M.L. Miller
- MEDI 158.** Towards a structure-based pharmacophore for the transient potential melastatin 8 (TRPM8) ion channel: Ligand recognition at the menthol receptor. V.B. Journigan, C.E. Heffner
- MEDI 159.** Development of bis[*N,N'*-rhodamine-7,7'-aminosulfonyl]benzo[c][1,2,5]oxadiazol-4-yl)sulfane (BIFROS) as a thiol specific fluorogenic agent for mitochondrial thiol imaging in live cells. S. Wang, H. Yin, Y. Li, X. Guan
- MEDI 160.** Design, synthesis, and evaluation of glutathione-cholesterol sulfide and its derivatives as brain-targeting agents. Y. Huang, S. Wang, A. Najmi, X. Guan
- MEDI 161.** Defining the pharmacokinetic and pharmacodynamic parameters of potent and selective heteroaryl sulfonamide Nav1.7 inhibitors with robust *in vivo* analgesic activity. B. Milgram
- MEDI 162.** Novel isoprenoid triazole bisphosphonates as potential GGDPS inhibitors. R.A. Mattheissen, M.L. Varney, S.A. Holstein, D.F. Wiemer
- MEDI 163.** Withdrawn.
- MEDI 164.** Design and synthesis of bicyclic piperazine sulfonamides leading to highly potent HIV protease inhibitors. C.J. Bungard
- MEDI 165.** Identification of potent 17 β -hydroxysteroid dehydrogenase type 3 (17 β -HSD3) inhibitors by systematic structural modifications of the lead compound RM-532-105. F. Cortés-Benitez, J. Roy, M. Perrault, R. Maltais, D. Poirier
- MEDI 166.** Targeting cancer cell metabolism using sugar-based small molecules. F. Ndombora
- MEDI 167.** Smart and targeted delivery of an anticancer active copper complex: *In vitro* and *in vivo* studies. A. Pramanik, K. Somasundaram, A.G. Samuelson
- MEDI 168.** Ferrocene based Fe-Sn heterobimetallics: Synthesis and DNA binding potentials. A. Altaf, N. Khan, A. Badshah, B. Lal
- MEDI 169.** Design and synthesis of novel pH-responsive multifunctional lipid-like carriers for siRNA delivery. Z. Sun, H. Jiang, J. Qin, D. Sun, Z. Lu
- MEDI 170.** 3D imaging detection method of HER2: Application of conjugated antibody-quantum dots probes and ratiometric analysis. P.I. Pérez Treviño, H. Hernández de la Cerda, N. García, J. Altamirano
- MEDI 171.** Improving solubility of thieno[2,3-d]pyrimidine based FLT3 inhibitor via structural modifications at the C $_2$ and C $_6$ position. C. Oh, H. Kim, G. Han
- MEDI 172.** Dendrimer-based multifunctional conjugates of new-generation taxoids for tumor-targeted drug delivery. Y. Sun, L. Wei, I. Ojima
- MEDI 173.** Synthesis of flexible, purine analogue inhibitors of NCP7. T. Ku, K.L. Seley-Radtke, Y. Arefeayne
- MEDI 174.** Discovery of novel series of LasR quorum sensing inhibitors in *Pseudomonas aeruginosa*. P. Suman, L.J. Perez, S.C. Jonnalagadda
- MEDI 175.** Cefiderocol (S-649266): A new siderophore cephalosporin exhibiting potent activities against *Pseudomonas aeruginosa* and other gram negative pathogens including multi-drug resistant bacteria: Structure activity relationship. T. Aoki, H. Yoshizawa, K. Yamawaki, K. Yokoo, J. Sato, S. Hisakawa, Y. Hasegawa, H. Kusano, M. Sano, H. Sugimoto, Y. Nishitani, Y. Yamano, T. Sato, M. Tsuji, R. Nakamura, T. Nishikawa
- MEDI 176.** Inhibiting effect of essential oils and methylglyoxal with carrier oils on the growth of *Pseudomonas aeruginosa*. A. Patel, J.P. Mack, A. Rojtmán
- MEDI 177.** Inhibition of the *Pseudomonas aeruginosa* heme oxygenase. E. Robinson, D. Liang, K. Horn, A. Wilks, F. Xue
- MEDI 178.** Discovery of 1H-benzo[d]imidazol-2-yl-methyl-spiro [cyclopropane-1,3'-indolin]-2'-one derivatives as fusion inhibitors for treatment of respiratory syncytial virus infection. H. He
- MEDI 179.** Molecular-based design, synthesis and docking studies of new benzimidazole derivatives as potential bacterial peptide deformylase inhibitors. S.E. Kassab
- MEDI 180.** Discovery of small molecules that inhibit the LRS-RagD interaction and their potential use as anti-cancer drugs. K. Jung, C. Lee, G. Han
- MEDI 181.** First insight into structure-activity relationships of selective Mepripin β inhibitors. D. Ramsbeck, A. Hamann, D. Schlenzig, S. Schilling, M. Buchholz, H.U. Demuth
- MEDI 182.** Evaluating p97 inhibitor analogues for potency against different p97-p97 cofactor complexes. T. Chou
- MEDI 183.** Examining the activity of HIV protease inhibitors against human endogenous retrovirus-K: A potential treatment for amyotrophic lateral sclerosis. R. Abrams, R. Tyagi, W. Li, M. Bianchet, A. Nath

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MEDI 184. Evaluating fosmidomycin analogs as antimicrobial agents through 1-Deoxy-D-xylulose-5-phosphate reductoisomerase (Dxr) inhibition. **X. Wang, R. Edwards, A. Haymond, R.C. Brothers, H.I. Boshoff, R.D. Couch, A.R. Odum, C.S. Dowd**

MEDI 185. Withdrawn.

MEDI 186. N6-benzyladenosine derivatives inhibit replication of RNA viruses from *Flavivirus* and enterovirus geni. **A. Orlov, M.S. Drenichev, V.E. Oslovsky, L.I. Kozlovskaya, G.G. Karganova, V.A. Palyulin, S.N. Mikhailov, D.I. Osolodkin**

MEDI 187. Pharmacological protection of mitochondrial function mitigates acute limb ischemia/reperfusion injury. **X. Yan, S. Hou, L. Bi**

MEDI 188. Catch and release strategy to treat bacterial infections. **M. Royzen, J.M. Mejia Oneto**

MEDI 189. Multi-target molecular profiling using MOE: A CYP450 isoform selectivity case study. **M.R. Goldsmith, C. Williams, A. Ajamian, P. Labute**

MEDI 190. Phytoestrogens: New ligands targeting the estrogen receptor domains. **V. Thakor, A. Shaikh, M. Noolvi**

MEDI 191. Structure-based drug design of new indole and benzopyrazole analogs with expected activity. **A. Shaikh, V. Thakor**

MEDI 192. Rapid identification and optimization of a novel CGRP receptor antagonist chemotype. **B.M. Crowley, C.M. Pottiger, D.N. Nguyen, J. Lim, C. Wang, H. Mitchell, K. Schirripa, M. McWherter, R. Gillilan, M. Patel, K.L. Arrington, E.L. Moore, J.G. Bruno, A. Kemmerer, A. Soni, R.B. White, D. Cui, A. Danziger, S.T. Harrison, J.C. Culbertson, H. Su, G. Parthasarathy, I.M. Bell, M.E. Fraley, S.D. Mosser, C. Fandozzi, C.A. Salvatore, C.S. Burgey**

MEDI 193. Discovery of (E)-(4-(3-methylbut-2-en-1-yl)-3-(3-phenylpropanamido) cinnamic acid as highly potent and selective inhibitor of AKR1C3 for the treatment of castration-resistant prostate cancer (CRPC) and acute myeloid leukemia (AML). **K. Verma, T. Zang, T.M. Penning, P.C. Trippier**

MEDI 194. Synthesis of β -monoaducts using oligonucleotides. **W.G. Aguilar, E. Champell**

MEDI 195. Profiling CD8 T cells in tumor microenvironment using PEGylated single domain antibodies and immunoPET. **M. Rashidian, M. Dougan, J. Ingram, A. Dongre, K. Whang, H. Ploegh**

MEDI 196. Synthesis of ^{14}C labeled RXR partial agonist CBT-PMN by $[^{14}\text{C}]$ carbon dioxide fixation via organolithiation of trialkyltin precursor and PET imaging thereof. **O. Shibahara, M. Watanabe, M. Akehi, T. Sasaki, T. Hanada, A. Akahoshi, H. Hirano, H. Kakuta**

MEDI 197. Predicting ADME and PK properties of antivirals for Ebola. **M.A. Lingerfelt, K. Zorn, J.S. Freundlich, M. Anantpadma, G. Rao, R. Davey, P. Madrid, S. Ekins**

MEDI 198. Interdiction at a protein-protein interface: Structure-based design and optimization of spirocyclic Mcl-1 inhibitors. **K. Li, S.P. Brown**

MEDI 199. Indole-TEMPO conjugates alleviate ischemia-reperfusion injury via attenuation of oxidative stress and preservation of mitochondrial function. **S. Hou, X. Yan, L. Bi**

MEDI 200. Development of prolinol based derivatives targeting sphingosine kinase-1. **H. Li, Y. Kharel, K. Lynch, W.L. Santos**

MEDI 201. Aryl ring modifications of sphingosine kinase 2 selective inhibitors. **C. Sibley, Y. Kharel, K.R. Lynch, W. Santos**

MEDI 202. Investigation of the oprin protein from North American opossum (*Didelphis virginiana*) as a potential inhibitor of Western diamond-back rattlesnake (*C. atrox*) venom metalloproteinases. **R.M. Werner**

MEDI 203. Synthesis and cytotoxicity of Baylis-Hillman reaction derived betulinic acid analogs. **P. Suman, A. Patel, L. Solano, A. Indukuri, S.K. Kommineni, R.M. Rutkoski, M. Collins, S.C. Jonnalagadda**

MEDI 204. Design of α -(benzoboroxolyl) and α -(benzoboroxolylmethyl) acrylamides as potential anti-cancer agents. **P. Suman, M. Ur Rahman, M. Islam, P.M. Mastoridis, R. D'Souza, S.C. Jonnalagadda**

MONDAY MORNING

Section A

Walter E. Washington Convention Center Room 146B

Insights on Medicinal Chemistry from Hardcore Practitioners

J. Barrow, *Organizer, Presiding*

8:30 MEDI 205. Roles of chemists and chemical technology in a changing drug discovery environment. **P.R. Bernstein**

9:05 MEDI 206. Adventures in the discovery of excitatory amino acid antagonist therapeutics: The value of perseverance. **P.L. Ornstein**

9:40 MEDI 207. Role of tacit knowledge in medicinal chemistry. **R.L. Dow**

10:15 MEDI 208. Find out what you don't know: A recurring lesson from years of lead generation research. **M.R. Wiley**

10:50 MEDI 209. Tales from the hood: Three vignettes focused on optimization of human dose. **H.B. Wood**

Section B

Walter E. Washington Convention Center Room 146A

Addiction: The Unmet Medical Need of the 21st Century

J. V. Aldrich, *Organizer*

M. J. Blanco, *Organizer, Presiding*

8:30 Introductory Remarks.

8:35 MEDI 210. Addictive diseases: Molecular neurobiology, behavior, human genetics, and treatments. **M. Kreek**

9:15 MEDI 211. Discovery of selective orexin-1 receptor antagonists. **B.T. Shireman, C. Preville, J.M. Ziff, C.A. Dvorak, H. Coate, C. Gelin, T. Lebold, P. Bonaventure, C. Dugovic, T. Koudriakova, B. Lord, D. Nepomuceno, J. Shelton, T. Lovenberg, N.I. Carruthers**

9:50 Intermission.

10:05 MEDI 212. Targeting the dopamine D3 receptor for treatment of opioid and cannabis use disorders. **A.H. Newman**

10:40 MEDI 213. Substance use disorders: Vaccination as a therapeutic strategy. **K.D. Janda**

11:15 MEDI 214. Development of M5 muscarinic acetylcholine receptor negative allosteric modulators for the treatment of opioid use disorder. **C.K. Jones**

11:50 Concluding Remarks.

Modeling & Measuring Protein-Ligand Kinetics & Residence Times

Sponsored by COMP, Cosponsored by MEDI and PHYS

MONDAY AFTERNOON

Section A

Walter E. Washington Convention Center Room 146B

Encoded Technologies for Lead Generation, Successes & Challenges

H. Deng, K. Leftheris, N. V. Prabhu, *Organizers*

J. Messer, *Organizer, Presiding*

K. Leftheris, *Presiding*

1:30 Introductory Remarks.

1:40 MEDI 215. ALIS affinity selection in pharmaceutical discovery. **P. Dandliker**

2:10 MEDI 216. Synthesis strategies to DNA-encoded small molecule libraries – of a chemoresistant sequence, and micellar nanoreactors. **A. Brunschweiler, M. Kilka Skopic, H. Salamon**

2:40 MEDI 217. DNA-encoded library technology (ELT): Challenges and advances in chemistry and library development. **Y. Ding**

3:10 Intermission.

3:25 MEDI 218. *In vitro* selection assays: New approaches and applications. **C.J. Krusemark, K.E. Denton, D. Kim, R. Jetson**

3:55 MEDI 219. Revolution will be compartmentalized: Technology for next-generation small molecule discovery. **B. Paegel**

4:25 MEDI 220. Application of DNA-encoded technology to lead generation of challenging targets. **Y. Zhang**

Section B

Walter E. Washington Convention Center Room 146A

Off Targets No More: CYP450 Enzymes as Drug Discovery Targets

S. B. Hoyt, *Organizer*

S. Hoyt, *Presiding*

1:30 MEDI 221. Steroidogenic cytochrome P450 enzymes as drug targets. **R.W. Hartmann, J. Emmerich, L. Yin, A. Ali, S. Hoyt, Q. Hu, C. van Koppen**

2:20 MEDI 222. LFF269: A cortisol-sparing CYP11B2 inhibitor that lowers aldosterone in human subjects. **J.P. Papillon**

3:00 MEDI 223. Using fragment-based approaches to probe the Mycobacterium tuberculosis CYPome. **C. Abell**

3:40 MEDI 224. CYP51 inhibitors for Chagas disease. **G. Lepesheva**

4:20 MEDI 225. Discovery of selective CYP11B2 inhibitors as potential treatments for resistant hypertension. **S.B. Hoyt, W. Pettrilli, M.K. Park, J.A. Taylor, C. London, A. Cooke, J. Cai, E. Carswell, J. Robinson, J. Maclean, L. Brown, S. Belshaw, T. Clarkson, D.J. Bennett, K. Liu, G. Liang, F. Ujjainwalla, J. Tata, Q. Hu, L. Yin, C. van Koppen, R.W. Hartmann, B. Kulkarni, S.K. Samanta, R. Saxena, M. Struthers, D. Cully, T. Wisniewski, N. Ren, C. Bopp, A. Sok, T. Cai, S. Stribling, L. Pai, X. Ma, J. Metzger, A. Verras, D. McMasters, O. Chen, E. Tung, W. Tang, G. Salturo, N. Buist, J. Clemas, G. Zhou, M. Rosenbach, Y. Xiong, A. Ali**

Modeling & Measuring Protein-Ligand Kinetics & Residence Times

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Undergraduate Research Posters

Medicinal Chemistry

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MONDAY EVENING

Section A

Walter E. Washington Convention Center Halls D/E

Sci-Mix

A. W. Stamford, *Organizer*

8:00 - 10:00

51, 56, 61, 66, 70, 74-75, 78-79, 97, 101, 112, 119-120, 122-123, 130, 142-143, 146, 177-178.

See previous listings.

286, 303, 305, 318-320, 323-324, 328, 331, 338, 341, 353, 364.

See subsequent listings.

TUESDAY MORNING

Section A

Walter E. Washington Convention Center Room 146B

Award Symposium

A. W. Stamford, *Organizer*

W. B. Young, *Presiding*

8:30 MEDI 226. Synthesis and evaluation of itraconazole analogues for the treatment of medulloblastoma. **J.R. Pace, M.K. Hadden**

The use of any device to capture images (e.g., cameras and camera phones) or sound (e.g., tape and digital recorders) or to stream, upload or rebroadcast speakers or presentations is strictly prohibited at all official ACS meetings and events without express written consent from ACS.

8:55 MEDI 227. Discovery of new quinazolinone antibiotics for the treatment of methicillin-resistant *Staphylococcus aureus*. R. Bouley, M. Suckow, J. Hermoso, M.F. Chang, S. Mobashery

9:20 MEDI 228. Harnessing a catalytic lysine residue for the rapid, one-step preparation of homogeneous antibody-drug conjugates. A.R. Nanna, X. Li, E. Walseng, L. Pedzisa, R.S. Goydel, D. Hymel, T.R. Burke, W.R. Roush, C. Rader

9:45 MEDI 229. Dual inhibition of the oncoproteins MCL-1 and BCL-2 by rationally designed polypharmacology. B. Drennen, S.J. Hughes, S. Fletcher

10:10 MEDI 230. Novel HIV-1 protease inhibitors: Design, synthesis, and biological evaluation. H.L. Osswald

10:35 MEDI 231. From endocrine regulation to bacterial quorum sensing (QS): Design and optimization of compounds for the treatment of endocrine disorders and infectious diseases. R.W. Hartmann, Q. Hu, C. van Koppen, S. Marchais-Oberwinkler, C. Maurer, M. Empting

11:20 MEDI 232. Activity-based proteomics: Protein and ligand discovery on a global scale. B.F. Cravatt

Section B

Walter E. Washington Convention Center Room 146A

Recent Advances in the Treatment of HIV-1 Infection & Approaches to a Cure

N. A. Meanwell, B. N. Naidu, S. Runyon, *Organizers, Presiding*
E. Velthuisen, *Presiding*

8:30 Introductory Remarks.

8:35 MEDI 233. Curing HIV infection: Going beyond N = 1. R.F. Siliciano

9:10 MEDI 234. Exploring epigenetic regulatory proteins and their inhibition for HIV latency disruption. L.I. James

9:45 MEDI 235. Long acting HIV antiretroviral agents: Moving beyond one pill once a day. B.A. Johns, E. Velthuisen

10:20 MEDI 236. Second generation HIV-1 maturation inhibitors: The discovery of BMS-955176. A. Regueiro-Ren

10:55 MEDI 237. Phosphonamidate prodrugs GS-7340 (tenofovir alafenamide) and GS-9131 for the treatment of HIV. R.L. Mackman

11:30 MEDI 238. Withdrawn.

Innovations in Healthcare in the Global Economy

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Technical program information known at press time.

The official technical program for the 254th ACS National Meeting is available at www.acs.org/WDC2017

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Informatics & Chemical Biology: Identifying Targets & Biological Pathways

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Modeling & Measuring Protein-Ligand Kinetics & Residence Times

Sponsored by COMP, Cosponsored by MEDI and PHYS

TUESDAY AFTERNOON

Section A

Walter E. Washington Convention Center Room 146B

Recent Advancements & Therapeutic Opportunities in Muscarinic Receptors

M. P. Bourbeau, R. Mazzola, *Organizers, Presiding*

1:30 MEDI 239. Mutant muscarinic receptors as novel chemogenetic tools to identify new therapeutic targets. J. Wess

2:00 MEDI 240. Allosteric regulation and oligomerization of muscarinic cholinergic receptors. R.V. Shivnaraine

2:30 MEDI 241. Convulsion and cholinergic toxicity of subtype selective M1 positive allosteric modulators (PAMs). J.E. Davoren

3:00 MEDI 242. Targeting positive allosteric modulators of the M1 muscarinic receptor: Identification of MK-7622. D.C. Beshore

3:30 MEDI 243. Discovery, development, mechanistic insights and therapeutic potential of M₄ PAMs. C.W. Lindsay

4:00 MEDI 244. Discovery and clinical progression of highly selective M₁ agonists utilizing structure-based drug design. G.A. Brown

Section B

Walter E. Washington Convention Center Room 146A

General Orals

A. W. Stamford, *Organizer*
J. Ramanjulu, *Presiding*

1:30 MEDI 245. Design of liver-targeting, glucose-responsive insulin. D.A. Pissarnitski, S. Lin, L. Yan, Z. Zhao, A. Kekec, Y. Zhu, D.N. Hunter, P. Huo, D. Feng, C. Moyes, B. Pipik, J.L. Duffy, E. Guidry, J. Mu, M. Van Heek, P. Zafian, T. Kelly, E. Carballo-Jane, R.P. Nargund

1:55 MEDI 246. Identification of potent and selective covalent monoacylglycerol lipase (MAGL) inhibitors for treatment of neuroinflammation. L.A. McAllister, E.M. Beck, M.A. Brodney, C. Butler, A.M. Gilbert, A.R. Harris, C.J. Helal, D.S. Johnson, S. Mente, J.J. Montgomery, S.V. O'Neil, J.R. Piro, B.N. Rogers, T. Samad, D. Webb

2:20 MEDI 247. Discovery of molidustat (BAY 85-3934): A small-molecule oral HIF-prolyl hydroxylase (HIF-PH) inhibitor for the treatment of renal anemia. H. Beck

2:45 MEDI 248. Discovery of potent and orally bioavailable macrocyclic FX1a inhibitors. W. Yang

3:10 MEDI 249. Cleavable photoprobes enable binding site identification of a gamma secretase inhibitor. C. am Ende, N. Gertsik, K.F. Geoghegan, C. Nguyen, P. Mukherjee, S. Mente, U.I. Seneviratne, D.S. Johnson, Y. Li

3:35 MEDI 250. Identification of LYS228: A Novel monobactam with activity against extended spectrum β -lactamase expressing and carbapenem-resistant enterobacteriaceae. A. Casarez, A. Birmingham, J. Blais, V. Capka, R. Colvin, C. Dean, A. Fekete, W. Gong, E. Growcott, H. Guo, X. Lin, M. Lindvall, S. Lopez, D. McKenney, H. Moser, D. Rasper, V. Sethuraman, X. Shen, R. Simmons, D. Tang, M. Tjandra, N. Turner, T. Uehara, C. Vitt, S. Whitebread, A. Yifru, X. Zang, Q. Zhu, F. Reck

4:00 MEDI 251. Chemoinformatic-driven design and synthesis of an RNA-targeted small molecule library. B. Morgan, J. Forte, B. Sanaba, Y. Zhang, D. Karloff, D. Bertan, A.E. Hargrove

4:25 MEDI 252. Discovery and optimization of a novel class of selective Nav1.7 antagonists. C.M. Dehnhardt, S. Chowdhury, S. Sun, M.S. Wilson, A. Hasan, I. Hemeon, M.E. Grimwood, W. Gong, J. Andrez, T. Focken, P. Bergeron, S. Lin, Q. Jia, P. Bichler, G. Bankar, E. Chan, K. Khakh, D. Hackos, S. McKerrall, D.F. Ortwine, A. Zenova, S. Decker, J. Johnson, J. Chang, B.D. Sellers, C. Cohen, B. Safina, D. Sutherland

4:50 MEDI 253. Discovery of clinical candidate GDC-0276: A selective Nav1.7 inhibitor for the treatment of pain. D.P. Sutherland, S. Sun, S. Chowdhury, Q. Jia, A. Zenova, M.S. Wilson, T. Focken, J. Li, P. Bichler, S. Decker, M.E. Grimwood, I. Hemeon, T. Sheng, J. Andrez, D. Hackos, G. Bankar, K. Khakh, E. Chang, R. Kwan, S. Lin, K. Nelkenbrecher, D.F. Ortwine, J. Chang, J. Pang, L. Sojo, P. Chiang, A.N. Sambirone, M. Tegen, A. White, C. Chen, J. Chen, J. Lovelidge, X. Ding, R. Takahashi, M. Waldbrook, Z. Xie, C. Young, L. Robinette, C. Cohen, R. Oballa, C.M. Dehnhardt, B. Safina

Innovations in Healthcare in the Global Economy

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Toxicological Considerations in Antibody Drug Conjugate Design & Development

Sponsored by TOXI, Cosponsored by MEDI

WEDNESDAY MORNING

Section A

Walter E. Washington Convention Center Rooms 146B/C

First Time Disclosure of Clinical Candidates

J. B. Schwarz, *Organizer, Presiding*

9:00 MEDI 254. Discovery and initial clinical evaluation of trigriluzole: A tripeptide prodrug of riluzole for the treatment of glutamate-associated disorders such as ataxia. J.C. Pelletier, J. Wrobel, H. Bian, G.R. Smith, S. Chen, R.M. Berman, V. Coric, A.B. Reitz

9:35 MEDI 255. Allosteric antagonists of sigma-2/PGRMC1 complex: Brain penetrant orally active amyloid oligomer-displacing agents for the treatment and prevention of mild cognitive impairment and Alzheimer's disease. G.M. Rishton, G.C. Look, Z. Ni, J. Zhang, Y. Huang, X. Wu, N. Izzo, K. Mozzoni, C. Silky, C. Rehak, R. Yurko, S.M. Catalano

10:10 MEDI 256. Discovery of RG7314: A vasopressin 1a receptor antagonist for the treatment of social communication deficits in autism spectrum disorders. P.D. Schneider, B. Biemanns, C. Bissantz, C. Dolente, E. Goetschi, R. Jakob-Roetne, W. Muster, N. Parrott, E. Pinard, H. Ratni, C. Risterucci, M. Rogers-Evans, M. Schmitt, C. Grundschober

10:45 MEDI 257. Discovery of TAK-041: Potent and selective GPR139 agonist for treatment of negative symptoms associated with schizophrenia. H. Reichard, H. Monenschein

11:20 MEDI 258. Discovery of a ketohexokinase inhibitor for the treatment of NAFLD/NASH: Fragment-to-lead via structure-based drug design and parallel chemistry. B. Raymer, T.V. Magee, K. Futatsugi, A.C. Smith, K. Huard, M. Tu, G.J. Tesz, J. Gutierrez, J. Withka, K. Parris, J. Pandit, Y. Weng, G. Xing, S. Perez, A. Tsai, D. Fernando, M.S. Dowling, B. Thuma, A. Shavnya, H. Wisniewska, S.B. Coffey, K.A. Borzilleri, J.D. Knafels, K. Ahn, J. Zhou, D.A. Tess, S. Gut Ruggeri, V. Somayaji, A. Bergman, G.E. Sonnenberg, J.A. Pfeifferkorn, D. Price, S. Liras

Section B

Walter E. Washington Convention Center Room 146A

Unusual Protein-Ligand Interactions in the Design of Novel Pharmaceuticals

D. F. Ortwine, *Organizer*

H. E. Purkey, *Organizer, Presiding*

8:30 Introductory Remarks.

8:35 MEDI 259. 40 Years of structure-based design: What have we learned? F.N. Diederich

9:20 MEDI 260. Binding pockets make the difference: Morphing banal water-ligand interactions into determining ones. S.G. Krimmer, J. Cramer, M. Betz, V. Fridh, R. Karlsson, A. Heine, G. Klebe

9:50 MEDI 261. Tales from the trenches: Case histories of exploiting surprising interactions in drug discovery. N. Nevis

10:20 MEDI 262. Quantum mechanical approaches to structurally informed design. A. Heifetz

10:50 MEDI 263. Noncovalent sulfur interactions in drug design: Conformational control and intermolecular association. M.D. Bartberger

11:20 MEDI 264. How significant are unusual intermolecular interactions? B. Kuhn, O. Korb

WEDNESDAY AFTERNOON

Section A

Walter E. Washington Convention Center
Rooms 146B/C

First Time Disclosure of Clinical Candidates

J. B. Schwarz, *Organizer, Presiding*

2:00 MEDI 265. S-033188: A novel, first-in-class, orally bioavailable inhibitor of influenza virus cap-dependent endonuclease. **M. Kawai**, M. Miyagawa, T. Akiyama, Y. Taoda, K. Takaya, T. Shishido, R. Yoshida

2:35 MEDI 266. First time disclosure of BAY 1128688: A novel AKR1C3 inhibitor for the treatment of endometriosis. **U. Bothe**, M. Busemann, A. Steinmeyer, P. Droscher, O. Fischer, M. Peters, T. Zollner, F. Schler, A. Rotgeri, K. Denner, N. Barak, M. Hillmann, P. Savy, N. Ray

3:10 MEDI 267. Discovery and evaluation of clinical candidate IDH305: A brain penetrant mutant IDH1 inhibitor. **Y. Cho**, J.R. Levelle, G. Liu, T.R. Caferro, C.M. Shafer, A. Costales, J.R. Manning, Q. Zhao, M. Sendzik, M.D. Shultz, J. Dooley, G. Chenail, A. Farsidjani, J. Chen, R. Kulathila, X. Xie, S. Dodd, T. Gould, G. Liang, T. Heimbach, K. Slocum, M. Pu, R. Pagliarini, J.D. Growney

3:10 MEDI 268. Discovery of M2951: A selective, covalent inhibitor of BTK for the treatment of autoimmune diseases. **A. Goutopoulos**

3:45 MEDI 269. Discovery of a macrocyclic peptide inhibitor of programmed death-ligand 1 (PD-L1). **P.M. Scota**, E.P. Gillis, K.M. Boy, D. Langley, D. Donnelly, M. Miller, L. Lombardo, M. Poss, C. Mapelli, K. Gillman, K. Yeung, L. Sun, K. Grant-Young, M.P. Allen, M. Poirier, M.S. Bowsher, J. Zhu, L. Li, V. Lafont, N. Sanghvi, C. Yan, J.A. Easter, V. Lee, Y. Zhang, J. Goodrich, S. Bonacorsi, E. Cole, E. Mull, A. Mathur, J. Kempson, D. Wu, Q. Zhao, M. Wichroski, S. Campellone, M. Loubeau, M. Cockett, M. Gao, A. Korman, M. Selby, Y. Wang, V. Chauhan, P.C. Reid, J. Nishikawa, H. Goto, R. Logan, J. Cutrone, R. Denton, R. Haskell, K. Johnson, Y. Benitex, K. Robbins, D. Critton, M. Donoso, D. Drexler, X. Huang, H. Park, S. Du, J. Kim, A. Pena, W. Hayes, P. Chow, R.A. Smith, J. Newitt, M. Soars, D. Tenney, N.A. Meanwell, P.H. Carter

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Section B

Walter E. Washington Convention Center
Room 146A

General Orals

A. W. Stamford, *Organizer*

A. Ali, *Presiding*

1:30 MEDI 270. Bayesian models for Chagas disease. **K.M. Zorn**, M.A. Lingerfelt, J.L. Siqueira-Neto, A. Clark, S. Ekins

1:50 MEDI 271. Identification of novel small molecule inhibitors against NS2B/NS3 serine protease from Zika virus. **H. Lee**, J. Ren, S. Nocadello, I. Ojeda, S. Light, G. Minasov, D. Nagarathnam, W.F. Anderson, M. Johnson

2:10 MEDI 272. Bacterial natural products as a renewed source of novel antibiotics: Isolation, characterization, and evaluation of antibacterial agents produced by soil bacteria. **A.L. Wolfe**

2:30 MEDI 273. Targeting the influenza RNA-dependent RNA polymerase. **D. Beylkin**, G. Kumar, W. Zhou, J. Park, T. Jeevan, C. Lagisetti, R. Harfoot, R. Webby, S.W. White, T. Webb

2:50 MEDI 274. Inhibitors of the DNA repair enzyme AAG as leads for potential new chemoprotectives and stroke treatments. **D. Wheligan**, B. Al Yahyaee, E. Mas, S. Chu, R. Elliott, B. Howlin, L. Meira

3:10 MEDI 275. Exploration of A, C, and D-ring SAR of the IspD-targeting antimarial agent MMV008138. **M. Ghavami**, Z. Yao, L. Liu, E. Merino, J. Butler, M. Casasanta, D. Slade, M. Totrov, M. Cassera, P.R. Carlier

3:30 MEDI 276. Synthesis of ADMDP-typed iminosugars to develop pharmacological chaperones for the treatment of Fabry disease and potential enhancers to increase enzyme replacement therapy efficiency. **W. Cheng**

3:50 MEDI 277. Dipeptidyl boronates as CIP11P2 inhibitors: A novel approach to anti tuberculosis therapy. **A. Poulsen**, P. Gopal, S. Santhanakrishnan, K. Jihao, C. Huang, B. Chia, Y. Qiu, U. Lakshmanan, M. Li, J. Sarathy, W. Moreira, C. Long, M. Gengenbacher, K. Sangthongpitag, T.H. Keller, B.W. Dymock, T. Dick

4:10 MEDI 278. Discovery and synthesis of 4-phenylpiperidine-2-carboxamides as selective 5-HT2C receptor positive allosteric modulators. **E.A. Wold**, C. Wild, N.C. Anastasio, R.G. Fox, S. Stutz, H. Chen, J.A. Allen, K.A. Cunningham, J. Zhou

4:30 MEDI 279. Selective small molecule Nociceptin (NOP) agonist for the treatment of anxiety related disorders. **T.M. Ross**, G. Bignan, P.J. Connolly, J. Moyer

4:50 MEDI 280. Modular total synthesis approach towards salvinorin A inspired designer opioids. **A.M. Sherwood**, S. Williamson, R.M. Saylor, T.E. Prinsinzano

WEDNESDAY EVENING

Section A

Walter E. Washington Convention Center
Hall E

General Posters

A. W. Stamford, *Organizer*

7:00 - 9:00

MEDI 281. Essential oil content of the seeds of wonderful kola, African walnut and guinea plum and their potentials on hyperlipidemic male Wistar rats. **E.O. Nwaichi**, J.O. Osuoha, M.O. Monanu

MEDI 282. Promising antibacterial sesquiterpenes: Cybastacine A and B from blue-algae cyanobacteria *Nostoc sp.* **V. Tena Pérez**, A. Hernández Cabanillas, D. Rosero Valencia, S. Maderuelo Corral, M. Ortega Doménech, Á. Rumbero Sánchez

MEDI 283. Organometallic iridium compounds: Cytotoxic potential against p53wt and p53-/- human colon cancer HCT116. **R.M. Lord**, I. Henderson, P. McGowan

MEDI 284. Novel ensemble approach to providing small molecule support for validation of cellular targets confirms that glycolysis is a viable antiproliferative strategy in leukemic cells. **A. Zweifach**

MEDI 285. Generation of natural products-based screening libraries for drug discovery. **F.A. Egbewande**, M.J. Coster, R.A. Davies

MEDI 286. Stabilization of quadruplex DNAs by tetraurea macrocycles: Synthesis, DNA binding and beyond. **C. Detchou**, B. Gong

MEDI 287. Production of the antidote of cyanide poison (sodium and hydrogen cyanide) known as sodasulphanecobalamin. **S.N. Olatunji**

MEDI 288. Design and structural modification of adamantane analogs for their anti-cancer activity. **V. Thakor**, A. Shaikh

MEDI 289. Design, synthesis and biological evaluation of new quinazolinone derivatives as potent antimicrobial agents. **S. Nanduri**, S. Gatadi, M.V. Yeddapanudi, S. Chopra

MEDI 290. Withdrawn.

MEDI 291. Discovery of a novel dual functional compound (IADB) as chemo-sensitizing and cardio-protective agent. **L. Bi**

MEDI 292. Design and synthesis of PC-PLC selective self quenching near-infrared fluorescing probes. **B.K. Liebov**, E.J. Delikatny, A.V. Popov

MEDI 293. Andrographolide: A versatile natural product for the generation of structurally diverse bioactive diterpenes. **S. Nanduri**, S.S. Kandamur, N. Golakoti

MEDI 294. Isoprenoid pathway as a valid target to control parasitic diseases. **J.B. Rodriguez**, S.H. Szajman, M.N. Chao

MEDI 295. Lead optimization and drug development of antiproliferative constituents from *Phyllanthus poilanei*. **A.C. Huntsman**, A. Young, J.L. Woodard, H. Chai, Y. Ren, M.A. Phelps, A.D. Kinghorn, J.E. Burdette, J. Fuchs

MEDI 296. Sensing bacterial growth and measuring antibiotic susceptibility via laser diffraction. **N.K. Kotoulas**, M. Goh

MEDI 297. Binding at the telomeric G-quadruplex-duplex interface: A computational study. **C. Radicella**, T. Fasano, V. Persad, **C. Wu**

MEDI 298. Triggering a peptidomimetic's oxidative activity to reduce survival of intracellular pathogens. **A.M. Angeles Boza**, M. Libardo

MEDI 299. Addressing antibiotic-resistance targeting ketolide drugs by developing novel analogs generated via click & *in situ* click chemistry. **S. Daher**

MEDI 300. Synthesis, design and computational studies of anti-cancer agents. **M. Kuanar**

MEDI 301. New motif for targeting isoprenoid biosynthetic pathway enzymes. **N.H. Bhuiyan**, M.L. Varney, S.A. Holstein, D.F. Wiemer

MEDI 302. Design, synthesis, and biological evaluation of small molecule drug conjugates targeting carbonic anhydrase IX positive cancers. **I. Marks**

MEDI 303. Design, synthesis, and evaluation of derivatives of glutathione linked to cholesterol via a link for brain-targeting drug delivery. **A. Najmi**, S. Wang, Y. Huang, X. Guan

MEDI 304. Synthesis and evaluation of 1, 3, 5 (10) estratriene aminoalkoxy, 16-formyl derivatives of estrone as potential anti-breast cancer agents. **C. Sullen**

MEDI 305. Novel computer-assisted drug design (CADD) AKT pathway inhibitors. **N. Uko**, J. Shim, O.F. Guner, J.P. Bowen, D. Matesic

MEDI 306. Discovery of selective low molecular weight VAV1 guanine nucleotide exchange factor inhibitors. **M. Gerspacher**, P. Skaanderup, V.M. Stucke, E. Vangrevelinghe, M. Knapp, M. Klumpp, A. Lingel, P. Chene, D. Erdmann, M. Duckely, L. Leder, G. Pardee, J. Narberes, T. Tsang, P. Imbach-Weese, F. Sirockin, W.R. Sellers, F. Hofmann

MEDI 307. Synthesis and preliminary biological evaluation of [11C]methyl (2-amino-5-(benzylthio)thiazolo[4,5-d]pyrimidin-7-yl)-D-leucinate as a new potential PET radioligand for the fractalkine receptor (CX3CR1). **M. Gao**, M. Wang, J. Meyer, J. Peters, H. Zarrinmayeh, P. Territo, G. Hutchins, Q. Zheng

MEDI 308. Macrocyclic factor Xla inhibitors containing phenyl azole carbonyl P1 groups. **J.R. Corte**, D. Pinto, T. Fang, H. Osuna, W. Yang, Y. Wang, A. Lai, Y.T. Jeon, I. Delucca, P. Gilligan, K.B. Pabbisetty, L.M. Smith, M.J. Orwat, C.G. Clark, N.D. Yadav, K.A. Rossi, J.E. Myers, S. Sheriff, Z. Lou, J.J. Zheng, T.W. Harper, C. Huang, J.M. Bozarth, Y. Wu, P. Wong, C. Watson, E. Crain, J.M. Luetgten, D.A. Seiffert, P.Y. Lam, R.R. Wexler, W.R. Ewing

MEDI 309. Design of HIV co-receptor derived peptides that inhibit viral entry at submicromolar concentrations. **S. Mandadapu**, K. Bobyk, K. Lohith, C.A. Bewley

MEDI 310. Study co-aggregations of nucleic acid nanostructures with tetracycline molecules and their potential applications in smart drug delivery. **N. Alzahrani**, J. Fu, D. Yang, Z. Wang

MEDI 311. Investigation of a new DMC-DNA monoadduct. **O. Zacarias**, E. Champell

MEDI 312. Re-engineering the natural product, emetine, towards achieving a therapeutically useful drug. **O. Bakare**, E.S. Akinboye, N. Idris, N.Z. Brandy, M. Lewis, C.C. Mouamba, L. Abdulrahman

MEDI 313. Novel selective dopamine D3 receptor modulators for the treatment of cocaine addiction. **P. Chen**, B.E. Blass, J.C. Gordon, R. Luedtke, M. Taylor, K. Korzekwa, M. Ye

MEDI 314. Structure based discovery of host-targeted antiviral (HTA) small molecules: Ribosomal protein RACK1 as a potential broad antiviral target. **S. Dakshanamurthy**, I. Malli, H. Ullah

MEDI 315. Withdrawn.

MEDI 316. Formulating a toothpaste that intraorally delivers vitamin D using penetration enhancers. **N. Kim**, J. Lee

MEDI 317. Synthesis and biological evaluation of novel thiophene, pyrrole and aromatic exo-cyclic carbohydrate enone derivatives. Part II. **A. Maciejaj**, J. Sarnik, A. Czubatka-Bienkowska, **Z.J. Witzcak**, T. Poplawski

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- MEDI 318.** Novel cell directed glutaminase inhibitors as chemotherapeutic agents for hematological malignancies. **S. Zimmermann**, A. Gadiano, J. Alt, L. Tenora, G. Furtmueller, C. Garrett, P. Majer, R. Rais, B. Slusher
- MEDI 319.** Structure-activity relationships for rigid amphipathic fusion inhibitors suppressing tick-borne encephalitis virus reproduction. **A. Orlov**, A.A. Chistov, G.V. Proskurin, N.M. Ivanov, V.A. Palyulin, L.I. Kozlovskaya, G.G. Karganova, D.I. Osolodkin, V.A. Korshun
- MEDI 320.** Design and synthesis of selective histone deacetylase 6 inhibitors based on nexturastat A and evidence of efficacy in melanoma xenograft models. **S. Shen**, M.T. Tavares, M. Hadley, Z. Kutli, C. Barinka, A. Villagra, A.P. Kozikowski
- MEDI 321.** Design, synthesis, and biological evaluation of novel histone deacetylase inhibitors as anti-cancer agents. **A. Al-Hamashi**, L. Tilkekeratne, S. Dlamini
- MEDI 322.** Surfing the kinetic and thermodynamic map in a hit to lead process. **S. Panchal**, R. Edalji, Y. Wang, H. Zhu, C. Jakob, S. Djuric, A. Vasudevan, C. Sun
- MEDI 323.** PROTAC design of Mdm2 degraders: A novel efficient approach for cancer therapy. **Y. Li**, J. Yang, A. Aguilar, J. Lu, D. McEachern, D. Bernard, S. Wang
- MEDI 324.** Synthesis of FR900098 analogs as inhibitors of *Plasmodium falciparum* and *Mycobacterium tuberculosis* 1-deoxy-D-Xylulose-5-Phosphate Reductoisomerase (Dxr). **R. Wang**, R. Edwards, A. Haymond, H.I. Boshoff, A.R. Odum, R.D. Couch, C.S. Dowd
- MEDI 325.** Revitalizing an old molecule: Investigating acidomycin as an inhibitor of *Mycobacterium tuberculosis* biotin synthase. **M. Bockman**, C. Engelhart, D. Schnappinger, C.C. Aldrich
- MEDI 326.** Withdrawn.
- MEDI 327.** Synthesis and microbiological evaluation of 2-amino-4,5,6,7-tetrahydrothieno[2,3-c]pyridines against sensitive and drug resistant *Mycobacterium tuberculosis*. **F. Salem**, S.J. Sucheck, S. Thanna
- MEDI 328.** New carbapenem antibiotics with activity against *Mycobacterium tuberculosis* and *Mycobacterium abscessus*. **T. Nguyen**, M.A. Alqurafi, W. Chai, M. Netherton, R. Gupta, P. Nguyen, M. Cox, B. Meshram, J. Kim, C. Jacobson, O. Marx, S. Smriti, M. Bennett, C. Watanabe, A. Shi, L. Phung, D. Le, K. Rohde, J.D. Buynak
- MEDI 329.** Imparting intrinsic fluorescence as an approach towards rapid inhibitor screening and mechanistic evaluation of tuberculosis shikimate kinase. **R. Fuenta**, J. Smitty, T. Childers, A. Calderon, D.C. Goodwin
- MEDI 330.** Novel pyrimidine antituberculars discovered through machine-learning Bayesian method. **D. Inoyama**, S.D. Paget, R. Russo, P. Kumar, E. Singleton, M. Tuckman, M.D. Zimmerman, H. Ho, A.L. Perryman, V. Dartois, N. Connell, J.S. Freundlich
- MEDI 331.** Discovery of 2-aminobenzimidazoles that sensitize *M. smegmatis* and *M. tuberculosis* to β -lactam antibiotics in a pattern distinct from β -lactamase inhibitors. **V. Nguyen**, C. Melander
- MEDI 332.** Rational design, synthesis and preliminary biological evaluation of novel C8-linked pyrrolbenzodiazepine-5'-O-[N-(salicyl)sulfamoyl] adenosine conjugates (PBD-Sal-AMS) as anti-tubercular probes with dual mode of action. **L. Ferguson**, S. Bhakta, F. Bruccoli
- MEDI 333.** Synthesis, optimization, and biological evaluation of novel analogs of DG85 as antitubercular agents. **R. Gallardo-Macias**
- MEDI 334.** Evaluation of 5-substituted 1,10-phenanthroline and nickel complexes as G4 ligands and telomerase inhibitors. **S. Wang**, W. Liu, I.A. Dotsenko, V.V. Samoshin, L. Xue
- MEDI 335.** Discovery of potent BET inhibitors as potential treatments for cancer: Optimization of pharmacokinetic and pharmaceutical properties. **M.D. Hill**, H. Fang, D. Norris, W.D. Schmitz, C. Huang, R. Westhouse, M. Kramer, J. Morrison, C. Tye, E. Shields, H. Zhang, M. Sinz, J. Simmermacher-Mayer, F. Lee, A.V. Gavai, A.P. Degnan
- MEDI 336.** Discovery of highly potent BET protein degraders based on novel inhibitors inducing complete and durable tumor regression in human acute leukemia xenografts. **C. Qin**, S. Wang
- MEDI 337.** N7-substituted pyrrolo[3,2-d]pyrimidine analogues - new small molecule anticancer agents. **B. Cawrse**
- MEDI 338.** Late-stage modification of thioyl moiety to ipomoeassin F to enable SAR studies of the natural product. **L. Whisenhunt**, G. Zong, Z. Hu, W. Shi
- MEDI 339.** Highly-active influenza endonuclease inhibitors developed from a designer metal-binding pharmacophore library screen. **C.V. Credille**, S. Cohen
- MEDI 340.** CholestosomeTM mediated delivery of nucleic acids into MCF7 cells. **A. Kovacs**, M. Irving, J. McArthur, J. Hughes, J. Schentag, L. Mielnicki, M. McCourt
- MEDI 341.** Thiohydroxy-pyridinones as a scaffold for the development of potent New Delhi metallo- β -lactamase-1 inhibitors. **R. Adamek**, C.V. Credille, P. Thomas, W. Fast, S. Cohen
- MEDI 342.** Therapeutic effects of novel benzylguanidine derivative on neuroblastoma tumor cells. **O. Ozen Karakus**, M. Rajabi, M. Yalcin, D.J. Bharali, S. Mousa
- MEDI 343.** Discovery of potent and selective Axl/Mer dual inhibitors. **T. Inukai**, K. Tsuboi, A. Hiramatsu, Y. Nomura, A. Yoshida, H. Kohno, K. Otsuki, M. Kurono, T. Fujimoto, S. Umemura, H. Egashira, R. Omi, T. Yasuhiro, R. Fujikawa, K. Tanaka, T. Yoshizawa, M.A. Wolf, V.D. Pawar, S.K. Chittimalla, C. Bandi, A. Chakrabarti, J. Takeuchi
- MEDI 344.** Design, synthesis and biological evaluation of 6-aminopenicillanic acid and 7-aminocephalosporanic acid derivatives of emetine. **C.C. Mouamba**, L. Abdulrahman, N. Idris, O. Bakare
- MEDI 345.** Synthesis of azotochelin analogues as antibiotic leads. **N. Karadkhekar**
- MEDI 346.** Design, synthesis and *in vitro* antiproliferative evaluation of quinazoline 2,4,6-triamine and 6-aminquinazoline-4-(3*H*)-one derivatives in ovarian cancer skov-3 cell line. **A. Matus-Meza**, F. Hernández-Luis, M. Velasco-Velazquez
- MEDI 347.** Withdrawn.
- MEDI 348.** Closing the loop between synthesis and design: Balancing optimisation of potency with selectivity. **P. Hunt**, T. Mansley, E. Champness, N. Foster, M. Segall
- MEDI 349.** Structure-based drug design (SBDD) and SAR of tetrapeptides competitive inhibitors of Y-49 β -lactamase. **C.C. Clement**, J. Gonzalez, M. Philipp
- MEDI 350.** Design and synthesis of novel uridine analogue with possible anti-HCV activity. **B. Alabdullah**, A.C. Bryant-Friedrich
- MEDI 351.** Synthesis of 2'-C-methyl pseudouridines for the inhibition of HCV RNA-polymerase. **I. Sappy**, A.C. Bryant-Friedrich
- MEDI 352.** Discovery of multi-target-directed ligands for the treatment of Alzheimer's disease. **W. Huang**, Z. Shen, C. Li, Q. Li, X. Zhen, Z. Ma, M. Liang
- MEDI 353.** Design and development of pramipexole-donepezil hybrids as potential therapeutics for Alzheimer's disease. **M.A. Barmade**, M. Shidore, S. Rajyaguru, J. Machhi, P.R. Murumkar, M. Yadav
- MEDI 354.** SUVN-502, A novel, potent and pure 5-HT₆ receptor antagonist - proof-of-concept study design in moderate Alzheimer's disease patients. **V. Nirogi**, K.R. Sastry, A.K. Shinde, M. Rasheed, R.K. Badange, T. Bandyala, V. Bhatta, V. reballi, P. Achanta, K. kandukuri, K. Bojja, S. Saraf, K. Mudigonda, P. Jayarajan, G. Bhyrapuneni, V. Goyal, V. Jasti
- MEDI 355.** Pyrimidine carboxamide derivatives as muscarinic acetylcholine subtype 1 positive allosteric modulators (M1 PAM) for the treatment of cognitive deficits in Alzheimer's disease. **V. Nirogi**, M. Rasheed, A.K. Shinde, P. Kalukuri, D. Kancharla, N. Bogaraju, R. Subramanian, N. Muddana
- MEDI 356.** Design and synthesis of novel [F18]-labeled histone deacetylase inhibitors as potential molecular imaging agents for Alzheimer's disease. **L. Hsin**, Y. Chen
- MEDI 357.** REAL fragment-like covalent modifiers: N-arylsulfamoylbenzenesulfonyl fluorides as potent protease inhibitors. **O. Gavrylenko**, A. Chupryna, O. Vasychenko, M. Platonov, P. Borysko, Y. Moroz
- MEDI 358.** Synthesis and SAR studies of positive allosteric modulators of mGluR2 for treatment of neurological and psychiatric diseases. **Z. Meng**, R.J. Mattson, M. Parker, L. Gurenson, A. Easton, W. Kostich, M. Seager, C. Bourin, L. Bristow, K. Johnson, R. Miller, J. Hogan, V. Whiterock, M. Gulianello, M. Ferrante, Y. Huang, A. Hendricson, A. Alt, J. Macor, J.J. Bronson
- MEDI 359.** Design, synthesis and application of novel building blocks to Escape the Flatland. **P. Mykhailiuk**
- MEDI 360.** [2+2]-photochemical synthesis and application of bicyclic amines: Advanced building blocks for medicinal chemistry. **P. Mykhailiuk**
- MEDI 361.** Synthesis and application of unnatural Proline analogues: Advanced building blocks for medicinal chemistry. **P. Mykhailiuk**
- MEDI 362.** Rapid access to novel multifunctional pirocyclic cores for drug discovery. **Y. Moroz**
- MEDI 363.** Synthesis of triazole as GABA analogues. **L. Diaz**, M. Fernandez
- MEDI 364.** Novel deuterated GABAAR- α 6 subtype selective ligands with improved metabolic stability and enhanced bioavailability: Targeting trigeminal orofacial pain, neuropsychiatric disorders, & depression. **D.E. Knutson**, R.S. Verma, M.R. Stephen, R. Kodali, L. Arnold, M.M. Savic, M.D. Mihovilovic, M. Ernst, W. Sieghart, J.M. Cook
- MEDI 365.** Second-generation inhibitors of the hepatitis C virus NS3/4A protease: Discovery of BMS-986144 with pan-genotypic antiviral activity. **L. Sun**, E. Mull, Q. Zhao, E.P. Gillis, M.S. Bowsler, S. D'Andrea, Z. Zheng, X.A. Wang, A. Mathur, R. Rampulla, S. Kandhasamy, N. Pulicharla, S. Vishwakrishnan, S. Reddy, R. Trivedi, S. Sinha, A. Rao, S. Desai, K. Ghosh, R. Rajamani, J. Friberg, S. Levine, C. Chen, P. Falk, Y. Wang, H. Fang, S. Jenkins, M. Kramer, R. Haskell, K. Johnson, J. Loy, P. Levesqu, J. Zhu, M. Cockett, N.A. Meanwell, F. McPhee, P.M. Scola
- MEDI 366.** Toxicological evaluation of magnetic nanoparticles. **H. Huang**, V. James, P. Villarreal, S. Bashir, J.L. Liu

NUCL

Division of Nuclear Chemistry and Technology

J. Terry, Program Chair

SUNDAY MORNING

Session A

Grand Hyatt Washington
Constitution D

General Topics in Radiochemistry

L. H. Delmau, Organizer, Presiding

8:30 Introductory Remarks.

8:35 NUCL 1. Chromatographic separation of medically-related radionuclides from proton-irradiated thorium targets. **T. Mastren**, V. Radchenko, J.W. Engle, A. Owens, R. Copping, M. Brugh, F.M. Nortier, E.R. Birnbaum, K.D. John, M.E. Fassbender

9:00 NUCL 2. Building a reference database for thermodynamic sorption modelling. **F. Bok**, A. Richter, V. Brendler

9:25 NUCL 3. Dabco/quinuclidine increases the radiofluorinations of 2-halopyridines. **L. Cai**, G.R. Naumic, S. Lu, V.W. Pike

9:50 Intermission.

10:15 NUCL 4. Accumulation of specific radioisotopes by fish in offshore Fukushima, Japan. **H. Katsura**

10:40 NUCL 5. Cesium ion partitioning with ionophores in ionic liquid-water biphasic systems. **R. Biswas**, T. Banerjee, P. Ghosh, S. Ali

Technical program information known at press time.

The official technical program for the 254th ACS National Meeting is available at www.acs.org/WDC2017

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