



Cell and Molecular Biology Department Retreat
Monday - September 29, 2014
From 8 to 6:00 pm
Rancho Bernardo Inn
17550 Bernardo Oaks Drive, San Diego, California

POSTER SESSION

Location: Courtyard (please set up upon arrival)
Poster board (size 4 ft Height x 6 ft Width)

Poster No.	Lab	Poster
1.	Balch	<ul style="list-style-type: none">• A Roadmap for Drug Development for Niemann-Pick disease <u>Kanagaraj Subramanian, Shu Mao, Fred Maxfield, Jason Gestwicki, and William E. Balch</u>
2.	Dawson	<ul style="list-style-type: none">• Optimizing Thioester Exchange in Native Chemical Ligation: New Methods Using Reverse-Phase Silica <u>Philip Cistrone, William Wey, and Philip Dawson</u>
3.	Dawson	<ul style="list-style-type: none">• Towards the Design and Synthesis of Antiviral Proteins <u>Naila Assem and Philip E. Dawson</u>
4.	Dawson	<ul style="list-style-type: none">• Quantum-dot/Dopa bioconjugates as powerful tools for peptidase activity sensors <u>Valle Palomo, Igor L. Medintz, Philip Dawson</u>
5.	Dawson	<ul style="list-style-type: none">• Structure-Guided Optimization of an EphA4 Peptide Antagonist <u>Erika Olson, Ilaria Lamberto, Bernhard C. Lechtenberg, Peter D. Mace, Stefan J. Riedl, Elena B. Pasquale, Philip Dawson</u>
6.	Encalada	<ul style="list-style-type: none">• Ultrastructural Analysis of Motor Protein Conformations and Regulation in Neurons <u>Danielle Grotjahn, Sandra Encalada</u>
7.	Encalada	<ul style="list-style-type: none">• Coordination of Molecular Motors in Axonal Transport <u>George E Campbell, Sandra E Encalada</u>
8.	Fowler	<ul style="list-style-type: none">• Control of thin filament lengths by sarcomeric tropomodulin isoforms: insights from mouse models <u>David S. Gokhin & Velia M. Fowler</u>

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9.	Fowler	<ul style="list-style-type: none"> The spectrin-actin network and beaded filaments cooperate to assemble large connexin 46 and 50 plaques and facilitate normal ion homeostasis in mouse lens fiber cells <p>Roberta B. Nowak, <u>Catherine Cheng</u>, Junyuan Gao, Richard T. Mathias, Sondip Biswas, Woo-Kuen Lo, Velia M. Fowler</p>
10.	Friedlander	<ul style="list-style-type: none"> Vascular endothelial growth factor regulates expression of protective complement factor H in the retina. <p><u>Keir LS</u>, Feitelberg D, Wittgrove C, Usi Y, Kurihara T, Richards A, Saleem MA, Westenskow P, Friedlander M.</p>
11.	Friedlander	<ul style="list-style-type: none"> Cone Photoreceptors Generate the Fatty Acid Amide Erucamide for Maintenance of the Ocular Vasculature <p><u>Peter D Westenskow</u>, Toshihide Kurihara, Yoshihiko Usui, Stephen Bravo, Junhua Wang, Leah Bryne, John Flannery, Michael Sailor, Gary Suizdak, Martin Friedlander</p>
12.	Gerace	<ul style="list-style-type: none"> Role of RNA helicase DDX1 in Rev-mediated HIV-1 mRNA trafficking and stability <p><u>Hui-Yi Chu</u>, John Hammond, Souad Naji, James R. Williamson, Larry Gerace</p>
13.	Gerace	<ul style="list-style-type: none"> Nuclear envelope protein Lem2 is required for mouse development and regulates MAP and AKT kinases <p><u>Olga Tapia</u>, Loren.G. Fong, Steve G. Young and Larry Gerace</p>
14.	Gerace	<ul style="list-style-type: none"> Net37, a novel component of the machinery for ER folding and regulated secretion of myogenic factors <p><u>Sara Carbajo-Pescador</u>, Kaustuv Datta, Paul Vasely, Larry Gerace</p>
15.	Joyce	<ul style="list-style-type: none"> In Vitro Evolution of Cross-Chiral RNAs <p><u>Jonathan T. Szepanski</u> and Gerald F. Joyce</p>
16.	Kralli	<ul style="list-style-type: none"> PGC-1 and ERR-induced Regulator in Muscle 1 (Perm1) Regulates Oxidative Metabolism in Skeletal Muscle <p><u>Yoshitake Cho</u>, Bethany C. Hazen, James Moresco, John Yates III, Aaron P. Russell, and Anastasia Kralli</p>
17.	Makarenkova	<ul style="list-style-type: none"> Analysis of the role of extracellular matrix in the development of lacrimal gland disease in mouse models of Sjogrens syndrome <p><u>Takeshi Umazume</u>, Driss Zoukhri and Helen p. Makarenkova</p>

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18.	Makarenkova	<ul style="list-style-type: none"> Homeobox factors Barx2 and Pax7 mediate a novel Wnt effector pathway in muscle satellite cells <p>Anastasia Gromova, Julie-Ann Hulin, Michael Downes, Ronald M. Evans, Robin Meech, and <u>Helen P. Makarenkova</u></p>
19.	Paulson	<ul style="list-style-type: none"> H7N9 and H6N1 influenza A virus hemagglutinins engineered to bind human type receptors reveal a novel layer of specificity beyond the a2-6 linkage of sialic acid <p><u>Robert P. de Vries</u>, Wenjie Peng, Ryan McBride and James C. Paulson</p>
20.	Paulson	<ul style="list-style-type: none"> Systemic blockade of sialylation in mice with a global inhibitor of sialyltransferases <p><u>Britni M. Arlian</u>, Matthew S. Macauley, Cory D. Rillahan, Poh-Choo Pang, Nikki Bortell, Maria Cecilia G. Marcondes, Stuart M. Haslam, Anne Dell, and James C. Paulson</p>
21.	Russell	<ul style="list-style-type: none"> Systematic genetic interaction screen reveals a non-canonical role for Ku DNA-end binding protein in preventing replication fork collapse in the absence of gamma-H2A binding protein Brc1 <p><u>Arancha Sánchez</u>, Sophie Rozenzhak, Assen Roguev, Nevan J. Krogan and Paul Russell</p>
22.	Russell	<ul style="list-style-type: none"> Probing the mitotic function of Mus81-Eme1 with substrate-selective Holliday Junction resolvase mutants <p><u>Sophie Wehrkamp-Richter</u>, Tamara Johnson, Oliver Limbo, Lauren Cassell and Paul Russell</p>
23.	Sauer	<ul style="list-style-type: none"> IP3 3-Kinase B Controls Hematopoietic Stem Cell Homeostasis and Prevents Lethal Hematopoietic Failure in Mice <p>Sabine Siegemund, Claire Conche, Blake Broaten, Lana Schaffer, Stephanie Rigaud, Luise Westernberg, Steven Robert Head and <u>Karsten Sauer</u></p>
24.	Schimmel	<ul style="list-style-type: none"> Wnt/β-catenin signaling implicated as mechanistic link to inhibition of malignant melanoma growth by natural fragment of human TrpRS <p><u>My-Nuong Vo</u>, Ryan Shapiro, Melanie Hanan, Raj Belani, Xiang-Lei Yang and Paul Schimmel</p>

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25.	Schimmel	<ul style="list-style-type: none"> Opposing effects of the 'cis' and 'trans' isomers of resveratrol on TyrRS mediated PARP-1 activation <p><u>Sajish Mathew and Paul Schimmel</u></p>
26.	Schimmel	<ul style="list-style-type: none"> Functional and structural studies on a natural fragment of alanyl-tRNA synthetase <p><u>Youngzee Song, Litao Sun, Leslie Nangle, Kyle Chiang, Paul Schimmel</u></p>
27.	Schneemann	<ul style="list-style-type: none"> Differential Segregation of Nodaviral Coat Protein and RNA into Progeny Virions during Mixed Infection with FHV and NOV <p><u>Radhika Gopal, P. Arno Venter, and Anette Schneemann</u></p>
28.	Schneemann	<ul style="list-style-type: none"> Towards Understanding the Structural Basis of Outer Mitochondrial Membrane Modifications Induced During Flock House Virus Replication <p><u>J. R. Short, J. Lanman, J. A. Speir, J. E. Johnson and A. Schneemann</u></p>
29.	Yang	<ul style="list-style-type: none"> Nuclear functions of tyrosyl-tRNA synthetase <p><u>David Blocquel, Na Wei, Guangsen Fu, Yi Shi, Xiang-Lei Yang</u></p>
30.	Yang	<ul style="list-style-type: none"> Charcot-Marie-Tooth disease is linked to the antagonism of neuropilin-1 by the secreted neomorphic glycyl-tRNA synthetase. <p><u>Weiwei He1*, Ge Bai2*, Huihao Zhou, Nicholas M. White, Jeni Lauer, Huqing Liu, Yi Shi, Nahia Ezkurdia, Calin Dan Dumitru, Karen Lettieri, Veronica Shubayev, Patrick Griffin, Robert W. Burgess, Samuel L. Pfaff and Xiang-Lei Yang</u></p>
31.	Yang	<ul style="list-style-type: none"> HDAC6 is a promising therapeutic target for peripheral neuropathy linked to mutant tRNA synthetase <p><u>Zhongying Mo, Veronick Benoy, Ge Bai, Constantin d'Ydewalle, Weiwei He, Na Wei, Samuel L. Pfaff, Ludo Van Den Bosch and Xiang-Lei Yang</u></p>