

Cell and Molecular Biology Department Retreat Wednesday, September 9, 2015 8AM – 6PM

Rancho Bernardo Inn 17550 Bernardo Oaks Drive San Diego CA 92128

PROGRAM

8:00 - 9:00	Breakfast
9:00 - 9:05	Velia M. Fowler Welcome/Opening Remarks
Session I	Moderator: Paul Russell
9:10 - 9:35	Velia M. Fowler Novel actin dynamics regulating red blood cell shape and physiology
9:40 - 10:05	Corwin Nicholat Glycan ligands for targeting Siglecs on immune cells
10:10 - 10:35	Marty Fedor RNA as a Global Metabolic Regulator
10:40 - 11:05	AM Break
Session II	Moderator: Larry Gerace
11:10 - 11:35	Steve Reed Dysregulation of cell cycle proteins and cancer: when good proteins go bad
11:40 - 12:05	Elena Deryugina MMP-mediated induction of the neovasculature capable of sustaining tumor cell intravasation and metastasis
12:10 - 12:30	Poster Highlights Minghua Nie (Boddy) Frenemies: unexpected auto-regulatory relationships among SUMO pathway factors for maintaining SUMO homeostasis
	Mark Wallen (Gottesfeld) Genetic correction for the common eye disease Fuchs corneal dystrophy
	Peter Westenskow (Friedlander) Neurovascular Crosstalk in the Retina

Role of the axonal transport machinery in the propagation of pathogenic prion

Romain Chassefeyre (Encalada)

aggregates

12:35 - 2:00	Lunch/Poster Session
Session III	Moderator: Sandra Encalada
2:00 - 2:25	Rajesh Grover The Great Escape: Mycoplasma Vs Host Adaptive Immune System
2:30 - 2:55	Anastasia Kralli Enhancing muscle fitness: exercise and exercise-induced responses in skeletal muscle
3:00 - 3:25	Celine DerMardirossian Control of the cell leading edge by a new GAP for Rac and Cdc42
3:30 - 3:55	PM Break
Session IV	Moderator: Velia Fowler
4:00 - 4:25	Paul Russell Protecting Genome Integrity
4:30 - 4:55	Helen Makarenkova Fgf signaling in lacrimal gland development, homeostasis and disease
5:00 - 5:05	Velia M. Fowler Closing
5:10 - 6:00	Reception/Poster Session



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POSTER SESSION

 Frenemies: unexpected auto-regulatory relationships among SUMO pathway factors for maintaining SUMO homeostasis

Mingua Nie (Boddy)

- 2. Roles of GEF-H1/Sec5 interaction in cancer cell migration and metastasis Violaine Delorme-Walker (DerMardirossian)
- 3. Ultrastructural Analysis of Motor Protein Conformations and Regulation in Neurons **Danielle Grotjahn (Encalada)**
- 4. Role of the axonal transport machinery in the propagation of pathogenic prion aggregates **Romain Chassefeyre (Encalada)**
- 5. Axonal Transport of Synaptophysin Vesicles through Coordination of Kinesin-1 and Kinesin-3 **George Campbell (Encalada)**
- 6. Nonmuscle Myosin-IIA Regulation in Red Blood Cells and Megakaryocytes **Alyson Smith (Fowler)**
- 7. The role of croquemort in innate immunity and aging **Nathalie Franc (Franc)**
- 8. Neurovascular Crosstalk in the Retina Peter Westenskow (Friedlander)
- 9. Dissecting molecular mechanism of Lem2 in ERK signaling Olga Tapia (Gerace)
- 10. Genetic correction for the common eye disease Fuchs corneal dystrophy Mark Wallen (Gottesfeld)
- 11. The role of the Estrogen Related Receptors in adipose tissue thermogenesis and metabolism **Erin Brown (Kralli)**
- 12. Perm1 (PGC-1 and ERR-induced Regulator, Muscle 1) enhances mitochondrial biogenesis, oxidative capacity and fatigue resistance in adult skeletal muscle

 Yoshitake Cho (Kralli)
- 13. Lacrimal gland inflammation deregulates extracellular matrix remodeling and alters molecular signature of epithelial stem/progenitor cells

Takeshi Umazume (Makarenkova)

- 14. Targeting inflamed endothelium with selectin-binding liposomes **Mila Elich (Paulson)**
- 15. Siglec-3 regulates FceRI function on human mast cells and basophil **Shiteng Duan (Paulson)**
- 16. Genetic Interaction Landscape Reveals Critical Requirements for *Schizosaccharomyces pombe* Brc1 in DNA Damage Response Mutants

 Arancha Sanchez (Russell)
- 17. Human Tyrosyl-tRNA Synthetase Stimulates Megakaryocytopoiesis Via TLR/MyD88/NFkB Signaling Pathway

My Vo (Schimmel)

18. CMT2D neuropathy is linked to the neomorphic binding activity of glycyl-tRNA synthetase **Ge Bai (Yang)**