

Dicty 2012 Meeting Program

Monday, July 30th

9:00-11:00 - **Session 1. Transcriptional regulation**
Chair: **Gad Shaulsky**

Jonathan Chubb	Dynamics of signalling to transcription in living cells
Matthew Jones-Rhoades	Diverse microRNAs in dictyostelid social amoebae
Catherine Pears	Acetylation of histone H3 variants
Tsuyoshi Araki	Dissection of the Dictyostelium STATc activation pathways
Thomas Winckler	Deeply conserved gene regulatory functions of the carboxy-terminal domains of dictyostelid C-module-binding factors

11:00-11:30. **Coffee Break**

11:30-13:15 - **Session 2. Signalling**
Chair: **Robert Insall**

Louise Fets	A PIP5kinase required for signalling downstream of Ras is crucial for chemotactic gradient sensing
Doris Heinrich	Probing PI3-Kinase based feedback in alternating chemotactic gradient fields with ongoing cell starvation time
Jesús Lacal	Regulation of chemotaxis by GSK-3 and a related kinase GlkA
Satoshi Sawai	Geometries of phosphatidylinositol waves and large-scale membrane deformation in randomly moving Dictyostelium

13:30-15:00 - **Lunch**
13:20-15:30 - **dictyBase Scientific Advisory Board Meeting,**

15:30-17:15 - **Session 3. Chemotaxis-I**
Chair: **Rick Firtel**

Bill Loomis	Adaptation, amplification and memory of a chemotactic gradient
Joseph Brzostowski	Phosphorylation of chemoattractant receptors regulates chemotaxis, actin re-organization and signal-relay in Dictyostelium discoideum
Dawid Jowhar	Reversing the polarity of migrating Dictyostelium cells
Chris Janetopoulos	The influence of polarized morphologies on directed migration

17:15-17:45 - **Coffee Break**

17:45-19:30 - **Session 4. Chemotaxis-II**
Chair: **Bill Loomis**

Rick Firtel	Chemotaxing cells implement two distinct modes of adhesion dynamics and lateral and axial contractility to control their migration speed
John Nichols	The phosphoproteomics of chemotaxis
Rama Kataria	Ric8 an important regulator of heterotrimeric G-protein signalling
Gadi Shaulsky	The role of self-recognition in cAMP signalling, differentiation and cheating

20:00-21:30 - **Dinner**

21:30-23:30 - **Posters' Visit**

Tuesday, July 31th

9:00-11:00 - **Session 5. Membrane trafficking**
Chair: **Gerald Weeks**

Julia von Bülow	AqpB: the first functional aquaporin water channel from Dictyostelium discoideum amoebae is potentially gated
Thierry Soldati	Rab8a regulates the exocyst-mediated kiss-and-run discharge of the Dictyostelium contractile vacuole
Khalid Arhzaouy	Heterotrimeric p97/p97R155C complexes induce dominant negative changes in wild-type and autophagy 9-deficient Dictyostelium cells
Ricardo Escalante	Autophagy in Dictyostelium: Vmp1 is required for the origin of the autophagosomes
Pierre Cosson	TM9 proteins: role in intracellular sorting of transmembrane domains

11:00-11:30 - **Coffee Break**

11:30-13:15 - **Session 6. Cytoskeleton**
Chair: **Ralph Gräf**

Richard Tyson	Elucidating the mechanisms of blebbing
Julia Gallinger	Filactin: a primadonna among actin variants in Dictyostelium amoebae
Annette Müller-Taubenberger	Filamin in Dictyostelium amoebae and leukocytes
Margaret A. Titus	Expression of the TalinA FERM domain disrupts cell-substrate adhesion

13:30-15:00. **Lunch**

15:30-17:15 - **Session 7. Stress and disease-I**
Chair: **Ludwig Eichinger**

Arjan Kortholt	Dictyostelium Roco proteins to study LRRK2-mediated Parkinson disease
Robin Williams	A conserved role of Human Presenilin 1 from amoeba to humans
Liliana Malinovska	Dictyostelium discoideum - A new paradigm to study protein aggregation and proteostasis
Chris Thompson	Identification of a novel molecular mechanism by which ATP-gated ion channels regulate intracellular processes

17:15-17:45 - **Coffee Break**

17:45-19:30 - **Session 8. Stress and disease-II**
Chair: **Robin Williams**

Hellen C. Ishikawa-Ankerhold	Composition and dynamics of nuclear and cytoplasmic actin rods in Dictyostelium
Salvatore Bozzaro	The Nramp (Natural Resistance Associated Macrophage Protein) protein family and iron homeostasis in Dictyostelium
Sascha Thewes	About the connection of calcineurin and mitochondria in Dictyostelium discoideum
James L. Platt	A CHD Chromatin-remodeler regulates nucleosome phasing in a limited gene set in Dictyostelium discoideum

20:00-21:30 - **Dinner**

21:30-23:30 - **Posters' Visit**

Wednesday, August 1st

9:00-11:00 - **Session 9. Cell cycle**
Chair: **Adrian Tsang**

Adrian Tsang	Transcriptome analysis of cell-cycle mutants: a glimpse into the molecular events underpinning cell-fate bias
Tatjana Peter	Molecular and microscopic characterization of CP75, a novel Dictyostelium centrosome protein
Christoph Gallinger	The role of Mo25 for cytokinesis in Dictyostelium discoideum
Nick Lakin	Regulation of DNA repair in Dictyostelium
Kimchi Strasser	Regulation of cell proliferation and cell-type specification in Dictyostelium by Cdk1

11:00-11:30 - **Harry MacWilliams' memorial Coffee Break**

11:30-13:15 - **Session 10. Cell differentiation**
Chair: **Adriano Ceccarelli**

Zhi-Hui Chen	Dictyostelium discoideum uses the prokaryote second messenger c-di-GMP as an apically secreted signal for stalk cell differentiation
Hideko Urushihara	Involvement of the plant fertilization protein Hap2/GCS-1 in the gamete interaction of Dictyostelium discoideum
Koki Nagayama	Generating order from chaos: noise, heterogeneity and robustness during developmental patterning in Dictyostelium
Suzy Battom	Cell type specific sorting out during Dictyostelium pattern formation

13:30-15:00 - **Lunch**

15:30-17:15 - **Session 11. Chemotaxis-III/DictyBase**
Chair: **Rex Chisholm**

Vladimir Zykov	Selection of spiral waves in excitable media with a phase wave at the wave back
Seido Nagano	A molecular network underlying spontaneous cAMP oscillation and a key role of G-protein dynamics
Robert Insall	SCAR/WAVE, actin, and how pseudopods are controlled
Petra Fey	dictyBase literature curation and how authors can help

17:15-24:00 - **Visit to Segovia**

Thursday, August 2nd

9:00-11:00 - **Session 12. Dictyostelium-microbial interactions**
Chair: **Pierre Cosson**

Hubert Hilbi	Subversion of phosphoinositide lipids and small GTPases by Legionella in Dictyostelium
Monica Hagedorn	Role of actin and actin-binding proteins during mycobacterial infections in a Dictyostelium model system
Matthias Leippe	Saposin-like proteins are implicated in antibacterial defence of Dictyostelium
Xuezhi Zhang	Exploring the roles of NADPH oxidases in Dictyostelium discoideum
Adam Kuspa	Initial characterization of the Dictyostelium Microbiome

11:00-11:30 - **Coffee Break**

11:30-13:15 - **Session 13. Evolution and development**
Chair: **Adam Kuspa**

David C. Queller	Dictyostelium development shows a novel pattern of evolutionary conservation
Kurato Mohri	Switching expression of prespore and prestalk marker orthologues during fruiting body development of Acytostelium subglobosum
Elizabeth Ostrowski	Birth-and-death evolution of the tgr genes in Dictyostelium discoideum
Joan E. Strassmann	Dictyostelium discoideum as a social organism

13:30-15:00 - **Lunch**

15:00 - **Departure**