**Dicty 2016 Meeting Program**

**Sunday, July 31st**

2:00-6:00 PM  
Check-in

6:00-9:00 PM  
Reception (Palm Room)

**Monday, August 1st**

7:00-8:30 AM  
Breakfast

8:45-9:00 AM  
Welcome address

9:00-10:40 AM  
Session I. Chemotactic Signaling I

9:00  **Wouter-Jan Rappel (Chair)**  
*Memory of Motility in Chemotaxis*

9:25  **Arjan Kortholt**  
*Pulling-down the chemotaxis pathways*

9:50  **Xuehua Xu**  
*GPCR-controlled membrane recruitment of C2GAP1 locally inhibits Ras signaling for adaptation and long-range chemotaxis*

10:15  **Tian Jin**  
*GPCR-mediated imperfect adaption of Ras signaling guides chemotactic responses to a large range of chemoattractant concentrations*

10:40-11:10 AM  
Break

11:10-12:25 PM  
Session II. Mitochondrial Function

11:10  **Paul Fisher (Chair)**  
*Does Parkinson’s Disease really involve pathologically impaired mitochondrial function?*

11:35  **Joe Dan Dunn**  
*Determining the immunity functions of reactive oxygen species using Dictyostelium discoideum*

12:00  **Malgorzata Wojtkowska**  
*The mitochondrial protein import apparatus in Dictyostelia*

12:30-1:30 PM  
Lunch

1:30-6:00 PM  
Free time

6:00-7:00 PM  
Dinner
7:30-8:45 PM  
**Session III. Bacterial Interactions**

7:30  **Adam Kuspa (Chair)**  
*Characterization of a secreted antimicrobial protein in Dictyostelium*

7:55  **Netra Meena**  
*Chemotaxis to Live Bacteria*

8:20  **Miao Pan**  
*Identification of an orphan G protein-coupled receptor for folic acid that controls both chemotaxis and phagocytosis*

9:00-10:30 PM  
**Poster Session (odd numbers)**

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**Tuesday August 2nd**

7:00-8:30 AM  
**Breakfast**

8:30-12:30 AM  
**Free time**

11:00-12:30 AM  
**SAB meeting**

12:30-1:30 PM  
**Lunch**

2:00-3:40 PM  
**Session IV. Cytoskeleton I**

2:00  **Cynthia Damer (Chair)**  
*CpnA Binds to Actin Filaments in a Calcium-dependent Manner In Vitro and has a Role in Chemotaxis*

2:25  **Yulia Artemenko**  
*Chemical and Mechanical Stimuli Act on Common Signal Transduction and Cytoskeletal Networks*

2:50  **Chris Janetopoulos**  
*Changes in PI(4,5)P2 levels are critical for phagocytosis, cell polarity, migration, and contribute to the metastatic properties of cancer cells*

3:15  **Thomas Lampert**  
*Using adhesion to discover novel regulators of cell migration*

3:40-4:10 PM  
**Break**

4:10-5:50 PM  
**Session V. Development I**

4:10  **Pundrik Jaiswal (Chair)**  
*Regulation of Metabolic Pathways by the Nutrient Sensor mTORC1*
**Wednesday August 3rd**

7:00-8:30 AM  
**Breakfast**

9:00-1:30 PM  
**Excursions**

2:00-3:40 PM  
**Session VII. Development II**

2:00  **Jonathan Chubb (Chair)**  
*Understanding the origins of cell type differences using single cell transcriptomics*

2:25  **Edward Johnson**  
*Robust cell type proportioning achieved via a complex noise dampening system acting upon the cell cycle*

2:50  **Jeff Hadwiger**  
*MAPK and phosphodiesterase regulation in G protein signaling pathways*

3:15  **Hidenori Hashimura**  
*All-cell 3D tracking in “mini” slugs*

3:40-4:10 PM  
**Break**
4:10-5:50 PM  
**Session VIII. Cytoskeleton II**

4:10  **Michael Koonce (Chair)**  
*Multiscale Analysis of Microtubule Arrays in Dictyostelium*

4:35  **Ralph Graf**  
*Topology of Dictyostelium centrosome proteins*

5:00  **Thomas Williams**  
*Regulation of Dictyostelium macropinocytosis*

5:25  **Peggy Paschke**  
*The impact of myosin I on macropinocytosis*

6:00-10:00 PM  
**Banquet dinner and reception**

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**Thursday August 4th**

7:00-8:30 AM  
**Breakfast**

9:00-10:15 AM  
**Session IX. Biomedical Models**

9:00  **Patrick Suess (Chair)**  
*Extracellular polyphosphate inhibits proliferation in an autocrine negative feedback loop in Dictyostelium discoideum*

9:25  **Stephanie Santarriaga**  
*Investigation of Dictyostelium discoideum protein quality control network*

9:50  **Young Shik Park**  
*Tetrahydropteridine study in Dictyostelium discoideum Ax2*

10:15-10:45 AM  
**Break**

10:45-11:35 PM  
**Session X. Cytoskeletal Signaling**

10:45  **Celia Amato (Chair)**  
*WASP maintains cell polarity by preventing aberrant accumulation of active Rac*

11:10  **Sean Singh**  
*Protein Kinase C and Phospholipase D cooperatively regulate Dictyostelium discoideum development*

11:45-1:00 PM  
**Lunch grab and go**