

Sunday, April 14th

3:00 pm Check-in

6:00 pm Reception (*Lobby*)

7:00 pm Dinner

8:00 pm Session 1: Opening talks
Chair: Jennifer Zallen

8:00 pm **Suzanne Eaton**, Max Planck Institute of Molecular Cell Biology and Genetics
Development of global planar polarity patterns in the wing of Drosophila

8:30 pm **Raymond E. Keller**, University of Virginia
Patterning and function of polarized force-generation during cell intercalation in the frog

9:00 pm Refreshments available at Bob's Pub

NOTE:

Meals are in the **Dining Room**
Talks are in the **Seminar Room**

Monday, April 15th

**All talks are 20 minutes + 5 for Q&A*

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 2**
Chair: Tony Wynshaw-Boris
- 9:00 am **Jeff Axelrod**, Stanford University
System architecture of Drosophila PCP signaling
- 9:25 am **Paul Adler**, University of Virginia
The maintenance of planar cell polarity in the fly wing
- 9:50 am **David Strutt**, University of Sheffield
Dynamics of planar polarity establishment in Drosophila
- 10:15 am **Marek Mlodzik**, Mount Sinai School of Medicine
Wnt/planar cell polarity signaling: Long range and intracellular regulation
- 10:40 am Break
- 11:10 am Session 3**
Chair: Peter Lawrence
- 11:10 am **Matias Simons**, University Hospital Freiburg
ATP6AP2/VhaPRR – A multifaceted new PCP core protein
- 11:35 am **Helen Strutt**, University of Sheffield
Regulation of junctional levels and asymmetry of core planar polarity proteins
- 12:00 pm **Gary Struhl**, HHMI/Columbia University
More on PCP in Drosophila
- 12:25 pm Lunch (*service ends at 1pm*)
- 2:00 pm Session 4**
Chair: Danelle Devenport
- 2:00 pm **Kathryn V. Anderson**, Memorial Sloan-Kettering Cancer Center
Genetic control of planar polarity in the mouse embryonic midline
- 2:25 pm **Shankar Srinivas**, University of Oxford
Visualising visceral endoderm dynamics during anterior patterning

- 2:50 pm **Ping Chen**, Emory University
Dissecting the genetic network in regulating coordinated orientation of sensory hair cells and cochlear extension in the inner ear
- 3:15 pm **Caroline J. Formstone**, King's College London
*Role of *Celsr1* in the morphogenesis of mammalian organ primordia*
- 3:40 pm Break
- 4:10 pm Session 5**
Chair: André Goffinet
- 4:10 pm **Jeremy Nathans**, HHMI/Johns Hopkins University
Flow of planar polarity information in mammalian skin
- 4:35 pm **Charlotte H. Dean**, Imperial College London
*Adult heterozygous *Vangl2^{Lp}* mice have impaired lung structure and function*
- 5:00 pm **Jennifer Murdoch**, Royal Holloway, University of London
Genetic interactions between PCP mutants and a step towards the identification of biomarkers for birth defects
- 5:25 pm **Yingzi Yang**, National Institutes of Health
The role of Wnt signaling in establishing planar cell polarity in vertebrates
- 5:50 pm Reception
- 7:00 pm Dinner
- 8:00 pm Session 6**
Chair: Michael Deans
- 8:00 pm **Fadel Tissir**, University of Louvain
A dual role of PCP signaling in ciliated cells
- 8:25 pm **Andrew J. Copp**, University College London
Planar cell polarity signaling in early nervous system development
- 8:50 pm **Mireille Montcouquiol**, Université de Bordeaux
Molecular differences between tissue polarity and translational polarity in mammalian cochlear epithelium
- 9:15 pm **Eric Siggia**, Rockefeller University
Phenotypic models of complex developmental paradigms
- 9:40 pm Refreshments available at Bob's Pub

Tuesday, April 16th

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 7**
Chair: Yingzi Yang
- 9:00 am **Lila Solnica-Krezel**, Washington University School of Medicine
The adhesion GPCR Gpr125 modulates Dishevelled distribution and planar cell polarity signaling
- 9:25 am **Michael Deans**, Johns Hopkins University
Postnatal refinement of auditory hair cell planar polarity deficits occurs in the absence of Vangl2
- 9:50 am **Xiaowei Lu**, University of Virginia
The role of mechanical forces in PCP regulation in the mammalian auditory sensory epithelium
- 10:15 am **Danelle Devenport**, Princeton University
Planar cell polarity in the mammalian epidermis
- 10:40 am Break
- 11:10 am Session 8**
Chair: José Casal
- 11:10 am **Jennifer Zallen**, HHMI/Sloan-Kettering Institute
Polarized cell behavior in the Drosophila embryo
- 11:35 am **John Wallingford**, HHMI/University of Texas at Austin
PCP Effectors in convergent extension and ciliogenesis
- 12:00 pm **Masatoshi Takeichi**, RIKEN Center for Developmental Biology
Planar cell polarity signals controlling the anisotropic contractility of cell junction-associated actomyosin cables
- 12:25 pm Lunch (*service ends at 1pm*)
- 1:00 pm Tour (*optional – meet at reception*)

- 2:00 pm** **Session 9**
Chair: Lila Solnica-Krezel
- 2:00 pm **François Schweisguth**, Institut Pasteur
Live imaging analysis of binary fate decision and asymmetric cell division in Drosophila
- 2:25 pm **Lisa Goodrich**, Harvard Medical School
The role of Fat3 in oriented dendrite development
- 2:50 pm **Cecilia Moens**, Fred Hutchinson Cancer Research Center
Planar cell polarity-directed neuronal migration
- 3:15 pm **Yimin Zou**, University of California, San Diego
Apical-basal polarity components amplify planar cell polarity signaling in growth cone guidance
- 3:40 pm Break
- 4:10 pm** **Session 10**
Chair: Eric Siggia
- 4:10 pm **Tony Wynshaw-Boris**, University of California, San Francisco
In vivo roles of the multifunctional and redundant Dishevelled gene family
- 4:35 pm **Anand Chandrasekhar**, University of Missouri
Non-PCP roles for PCP genes in neuronal migration?
- 5:00 pm **Libing Zhou**, Jinan University and the University of Hong Kong
Atypical cadherin Celsr3 regulates hippocampal wiring and maturation
- 5:25 pm **Ann Sutherland**, University of Virginia
Planar cell polarity regulation of convergent extension during axial elongation in the mouse
- 5:50 pm **Dongbo Shi**, National Institute for Basic Biology
Celsr1 regulates cell polarity and three-dimensional morphogenesis in the mouse oviduct
- 6:15 pm Reception
- 7:00 pm Dinner

- 8:00 pm** **Session 11**
Chair: Xiaowei Lu
- 8:00 pm **Sergei Sokol**, Mount Sinai School of Medicine
Planar polarity of epithelial tissues undergoing apical constriction
- 8:25 pm **Hernan Lopez-Schier**, Helmholtz Zentrum München
Development and homeostasis of epithelial mirror symmetry
- 8:50 pm **Helen McNeill**, Mount Sinai Hospital
Fat signaling
- 9:15 pm Refreshments available at Bob's Pub

Wednesday, April 17th

7:30 am Breakfast (*service ends at 8:45am*)

9:00 am Session 12
Chair: John Wallingford

9:00 am **Isabel Rodriguez**, Centro de Biología Molecular. CSIC-Uam
Expression of different transcriptional dachsous isoforms and their spatio-temporal regulation during imaginal disc development of Drosophila

9:25 am **Seth Blair**, University of Wisconsin
Separating planar cell polarity and Hippo pathway activities of the intracellular domain of the protocadherin Fat

9:50 am **Kenneth Irvine**, HHMI/Rutgers University
Fat signaling in Drosophila

10:15 am **Michael A. Simon**, Stanford University
The role of the Glycotransferase CIGalTA in regulating Four-jointed

10:40 am Break

11:10 am Session 13
Chair: Jeremy Nathans

11:10 am **Diana Laird**, University of California, San Francisco
Wnt5a-Ror2 signaling in primordial germ cell migration

11:35 am **Elena Torban**, McGill University
Functional and biochemical links between PCP effectors and core PCP proteins in mammalian cells

12:00 pm **André Goffinet**, University of Louvain
Fringe benefits of Celsr1

12:25 pm Lunch and Departure

1:00 pm First shuttle to Dulles

2:00 pm Second shuttle to Dulles

3:00 pm Last shuttle to Dulles