Friday, October 20th:
3:00 - 5:00 pm  Registration, check-in (Swope Center)
5:00 - 6:30 pm  Dinner (Swope Center)
6:30 - 6:45 pm  Opening Remarks: Peter Reddien (Lillie Auditorium)
6:45 - 8:00 pm  Session I (Lillie Auditorium). Patterning: homeostasis and regeneration I. Moderator: Carrie Adler

6:45 - 7:00 pm  Acoel regeneration mechanisms indicate ancient and widespread role for muscle in regenerative patterning
Amelie Raz, Mansi Srivastava, Peter Reddien

7:00 - 7:15 pm  Multiple secretory roles for planarian muscle cells
Lauren E Cote, Eric Simental, Peter W Reddien

7:15 - 7:30 pm  Src acts with Wnt/FGFRL signaling to globally suppress anterior identities in planarians
Nicolle A. Bonar, David Gittin, Christian P. Petersen

7:30 - 7:45 pm  Patterning alteration uncouples regeneration from homeostatic tissue maintenance
Eric M. Hill and Christian P. Petersen

7:45 - 8:00 pm  A model for eye progenitor targeting in Schmidtea mediterranea
Kutay Deniz Atabay, Peter W. Reddien

8:30 - 10:00pm Poster Session 1 (odd numbers) (Swope Center)

Saturday, October 21st:
7:00 - 8:30 am  Breakfast (Swope Center).

8:45 - 10:00 am  Session II (Lillie Auditorium). Neuronal regeneration and neurotoxicity. Moderator: Rachel Roberts-Galbraith

8:45 - 9:00 am  Planarian cholinesterase: structural and functional characterization of an evolutionarily ancient enzyme to study organophosphorus pesticide toxicity
Danielle Hagstrom, Siqi Zhang, Alicia Ho, Eileen Tsai, Aryo Jahromi, Zoran Radic, Kelson Kaj, Palmer Taylor, and Eva-Maria S. Collins
9:00 - 9:15 am  Freshwater planarians as an alternative animal model for medium-throughput developmental neurotoxicology testing
Siqi Zhang, Danielle Hagstrom and Eva-Maria S. Collins

9:15 - 9:30 am  The biocide methylisothiazolinone inhibits planarian wound healing and regeneration
Alanna Van Huizen, Ai-Sun Tseng, Wendy Beane

9:30 - 9:45 am  A planarian Tec family kinase suppresses neuronal regeneration
Alex Karge and Christian P. Petersen

9:45 - 10:00 am  Activation of TRPA1 by reactive oxygen species in Schmidtea mediterranea reveals a conserved signaling mechanism at the origin of animal nociception

10:00 - 10:30 am  Coffee break

10:30 - 11:45 am  Session III (Lillie Auditorium). Stem cells and regeneration. Moderator: Josien van Wolfswinkel

10:30 - 10:45 am  Single cell sequencing reveals diverse neoblast specialization for the Schmidtea mediterranea nervous system
Kellie M. Kravarik and Peter W. Reddien

10:45 - 11:00 am  Expression-based phenotyping identifies signaling molecules regulating neoblast self-renewal and differentiation
Schad EG and Christian P. Petersen

11:00 - 11:15 am  Regulators of Tegument Biogenesis in Parasitic Flatworms
George R. Wendt and James J. Collins, III

11:15 - 11:30 am  Injury Alters Stem Cell Response to Radiation in Planaria
Divya A Shiroor, Tisha E Bohr and Carolyn E Adler

11:30 - 11:45 am  Hymenolepis diminuta: a parasite model for stem cells and regeneration
Tania Rozario, Edward B. Quinn, Jennifer R. McDonald and Phillip A. Newmark

12:00 - 1:30 pm  Lunch (Swope Center)

1:45 - 3:15 pm  Poster Session 2 (even numbers) (Swope Center)

3:30 - 4:30 pm  Session IV (Lillie Auditorium): Technological innovation. Moderator: Jason Pelletieri

3:30 - 3:45 pm  Locked Expansion Microscopy for Super-resolution Fluorescence Imaging of Microbes, Worms, and Microbes in Worms
Youngbin Lim, Margarita Khariton, Katharine Ng, Samuel Bray, Kerwyn C Huang, and Bo Wang
3:45 - 4:00 pm  Optimizing culture conditions for large scale planaria culture
    M. Shane Merryman

4:00 - 4:15 pm  Defining the transcriptomes of planarian cell types
    Christopher T. Fincher, Omri Wurtzel, and Peter W. Reddien

4:15 - 4:30 pm  EMBO Young Investigator Talk: Jochen Rink

4:30 - 5:00 pm  Coffee break

5:00 - 6:15 pm  Session V (Lillie Auditorium): Patterning, homeostasis and regeneration II. Moderator: Mansi Srivastava

5:00 - 5:15 pm  Orthogonal muscle fibers have different instructive roles in planarian regeneration
    M. Lucila Scimone, Lauren E. Cote, and Peter W. Reddien

5:15 - 5:30 pm  The role of the missing tissue response during regeneration in the planarian Schmidtea mediterranea
    Aneesha Tewari, Sarah Stern, Isaac Oderberg, and Peter W. Reddien

5:30 - 5:45 pm  The Regulatory Landscape of Whole-body Regeneration
    Andrew R. Gehrke, Emily Neverett, Annika Gompers, and Mansi Srivastava

5:45 - 6:00 pm  The role of activin-2 in homeostatic and regenerative tissue patterning
    Jennifer K. Cloutier, Isaac Oderberg, and Peter W. Reddien

6:00 - 6:15 pm  Understanding Morphogenesis During Planarian Regeneration
    Wendy S. Beane

6:45 - 7:00 pm  Group Photo

7:00 - 10:00 pm  Lobster Dinner and Entertainment (Meigs room)

Sunday, October 22nd.
7:00 - 8:30 am  Breakfast (Swope Center).

8:45 - 10:45 am  Session VI (Lillie Auditorium): Germ cells and embryogenesis. Moderator: Jim Collins

8:45 - 9:00 am  Development of a novel media that supports Schistosoma reproduction in vitro
    Jipeng Wang, Aracely Romero, and James Collins

9:00 - 9:15 am  Strength in Numbers: Classroom-driven screens for genes involved in planarian sexual reproduction
    Labib Rouhana, Athanasios Bubulya
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<th>Time</th>
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| 9:15 - 9:30 am | Unfolding germline development in the human parasite *Schistosoma* using biomimetic nanoparticles  
**Pengyang Li**, Yuan Xue, Fabio Zanini, Stephen R. Quake, and Bo Wang |
| 9:30 - 9:45 am | A genome-wide screen in planarians reveals critical factors for germ cell development  
**Melanie Issigonis**, Alyshia Scholl, and Phillip Newmark |
| 9:45 - 10:15 am | Coffee break                                                              |
| 10:15 - 10:30 am | Functional genomics screen in the planarian *Schmidtea mediterranea* to identify regulators of female germ cell development  
**Umair W Khan** and Phillip A Newmark |
| 10:30 - 10:45 am | Embryonic origins of regenerative potential  
**Erin L Davies** and Alejandro Sánchez Alvarado |
| 10:45 - 11:00 am | Closing Remarks                                                          |
| 11:15 – 1:00 pm | Boxed Lunch                                                              |