**2018 MB&B Retreat Program**

**September 14-15, 2018**

**Marine Biological Laboratory at Woods Hole**

**7 MBL St., Woods Hole, MA 02543**

**Time Event Location**

7:15 a.m. Buses Depart 266 Whitney Ave.-

Near Loading Dock of BASS

10:15 a.m. Check-in/Registration Swope at MBL

Bags to be stored in shed if rooms not ready

10:30-10:45 a.m. Coffee and light snack Lillie Auditorium Atrium

10:45- 12:45 p.m. Session 1 Moderator-Carolyn Allain Lillie Auditorium

10:45-11:00 Welcome Karla Neugebauer and Wendy Gilbert

11:00 – 11:25 Karla Neugebauer with Edward Courchaine and Tara Alpert-*Pre-mRNA splicing in the spacetime continuum*

11:25-11:50 Don Engelman with John Deacon-*TAPing and pHLIPing into tumors*

11:50-12:15 Susan Baserga with Lisa Ogawa McLean-*A high throughput screen for nucleolar function reveals unexpected levels of regulation of ribosome biogenesis in human cells.*

12:15-12:35 Tom Pollard-*Mechanism of actin polymerization revealed by cryo-EM structures of actin filaments with three different bound nucleotides*

12:45-2:00 p.m. Community Discussion Lunch Swope Dining Room

Moderated by Wendy Gilbert

*Hearing Under-represented Voices*

2:00-3:30 p.m.  Session 2 Moderator Sarah Prophet Lillie Auditorium

2:00-2:25 p.m.  Wendy Gilbert with Rachel Niederer-*Translational control over a thousand-fold range by transcript leader feature*

2:25-2:50 p.m.  Michael Koelle with Santosh Kumar-*Purifying signaling protein complexes from the brain*

2:50-3:10 p.m.  Yang Yang from Tom Steitz’ Lab-*Structural basis for potent and broad inhibition of HIV-1 RT by thiophene [3,2-d] pyrimidine non-nucleoside inhibitors*

3:10-3:35 p.m.  Sarah Slavoff with Vicky Luo-*Natural and engineered peptide inhibitors of human mRNA decapping*

3:35-3:50 p.m.   Coffee and light snack Lillie Auditorium Atrium

3:50-5:00 p.m.  Session 3 Moderator Nick Huston Lillie Auditorium

3:50-4:15 p.m.  David Schatz with Yuhang Zhang-*Evolution of a transposase into a recombinase.*

4:15-4:40 p.m.  Scott Strobel with Andrew Knappenberger-*A family of riboswitch aptamers with a rugged functional landscape*

4:40-5:00 p.m.  Candie Paulsen-*Paulsen lab studies molecular mechanisms of pain.*

5:00-6:30 p.m. Poster session Swope Poster Area

6:30-8:15 p.m. Dinner and Trivia Swope Dining

8:15-9 p.m. Relay Game Meigs Room

9:00-11 p.m. Party! Meigs Room

**Day 2 Saturday**

7-9:00 a.m. Breakfast  Swope Dining

9-10:35 a.m. Session 4 Moderator Shivali Patel Lillie Auditorium

9:00-9:25 a.m. Tony Koleske with Juliana Shaw-*Control of actin in synapses and why it is important.*

9:25-9:50 a.m. Nikhil Malvankar with Sibel Ebru Yalcin-*Structural basis for metal-like conductivity in bacterial protein nanowires.*

9:50-10:10 a.m. Christian Schlieker-*Torsin ATPases and nuclear envelope dynamics.*

10:10-10:30 a.m. Mark Solomon-*Slaying the Destroyer.*

10:35-10:50 a.m. Group Photo In front of Lillie Auditorium

10:50-12:50 p.m. Free Time-Activities Available Various Locations

12:50-1:50 p.m. Lunch Swope Dining

1:50-3:25 p.m. Session 5 Moderators Carson Bryant and Peter Dahl Lillie Auditorium

1:50-2:15 p.m. Chuck Sindelar with Garrett Debs*-"Patching up" our understanding of microtubules and motor proteins*

2:15-2:40 p.m. Yong Xiong with Katie Digianantonio-*The revolution will not be crystalized.*

2:40-3:00 p.m. Paulina Pawlica-Joan Steitz’ Lab-*Regulation of host microRNAs by perpesviral transcripts*

3:00-3:25 p.m. Joe Howard with Kris Kuo-*Microtubule severing*

3:25-3:40 p.m. Announce Poster Winner/Wrap Up Lillie Auditorium

3:50-4:00p.m. Pick-up and grab dinner to go Lillie Auditorium Atrium

4:00 p.m. End of Program-Pack bus and depart Front of Swope

Retreat Committee Members:

Organizers

Karla Neugebauer, Wendy Gilbert, and Carol Migdalski

Volunteers:

Led by Catharine Shipps and Sachita Ganesa

Carson Bryant, Peter Dahl, Carolyn Allain, Sarah Prophet, Nick Huston, Shivali Patel, Mason McCool,

Marisa Michalchik, Clorice Reinhardt, Caroline Focht, Allison Butt, Cole Lewis, Austin Draycott, Erik Zavala,

Vishok Srikanth, Peter Nimi and Josh Zimmer.