Friday, September 28

Registration and Poster set-up (Swope Center)
Sign up for Saturday Lunch Box.

Afternoon Session (Lillie Auditorium)  

Welcome (David Breslow and Nadya Dimitrova)

Tom Pollard: Regulation of constriction of the cytokinetic contractile ring

Yannick Jacob: Regulation of genome stability by histone variants

Jing Yan: Mechano-morphogenesis of bacterial biofilms

Emilie Guillon (Holley Lab): Fibronectin mediated intertissue adhesion predisposes the neural tube to spina bifida

Coffee Break
Special Announcement

Yuan Xue (Acar Lab): Live-cell imaging of chromatin condensation dynamics by CRISPR

Ann Feke (Gendron Lab): The U-box decoy library uncovers novel regulators of the plant circadian clock

Lightning talks: Selected poster highlights

Panel discussions or Free time  

- Science outreach and communication (3:15-4:00, Lillie Auditorium) with Shirin Bahmanyar, Valerie Horsley, and Tom Pollard
- Defining a good research question (4:15-5:00, Lillie Auditorium) with Ron Breaker, Yannick Jacob, and Christine Jacobs-Wagner

Poster Session (Swope Center)
Light refreshments will be served.

Odd posters manned 5-5:45 pm and even posters manned 5:45-6:30 pm. Please be at your poster for the competition.
### 6:30 – 8:00
**Dinner (Swope Center)**  
*Sign up for Discussion tables (Optional)*
- Applying for postdocs
- Building mentoring relationships
- Choosing between academic and industry career paths

### Evening Session (Lillie Auditorium)  
**Moderator: Nadya Dimitrova**

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<thead>
<tr>
<th>Time</th>
<th>Speaker and Location</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00 – 8:15</td>
<td><strong>Anna Pyle:</strong> Harnessing the RIG-I innate immune sensor to control antiviral and antitumor responses</td>
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<td>8:15 – 8:30</td>
<td><strong>Jaymin Patel (Isaacs Lab):</strong> Animating secondary metabolism through advanced synthetic biology technologies</td>
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<td>8:30 – 8:45</td>
<td><strong>Nirag Kadakia (Emonet Lab):</strong> Implications of universal ORN adaptation for robust odor coding</td>
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<td>8:45 – 9:00</td>
<td><strong>Shirin Bahmanyar:</strong> Regulation of nuclear envelope assembly.</td>
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### Party (Conference room, Swope Center)

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<th>Time</th>
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<tr>
<td>9:00 – 11:00</td>
<td><strong>Entertainment:</strong> Provided by the 2nd-year MCDB graduate students.</td>
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### Saturday, September 29

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<th>Time</th>
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| 7:30 – 9:00   | **Breakfast (Swope Center)**  
*Check-out time: 10:00* |

### Morning Session (Lillie Auditorium)  
**Moderator: Josien van Wolfswinkel**

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<td>9:00 – 9:15</td>
<td><strong>Josien van Wolfswinkel:</strong> PIWI proteins in planarian stem cell biology</td>
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<td>9:15 – 9:30</td>
<td><strong>David Breslow:</strong> A genome-wide screen for Hedgehog signaling reveals a new ciliary GTPase</td>
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<td>9:30 – 9:45</td>
<td><strong>Nadya Dimitrova:</strong> Long noncoding RNAs: From junk to glory</td>
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<td>9:45 – 10:00</td>
<td><strong>Jennifer Sun (Carlson Lab):</strong> Humidity response depends on the small soluble protein Obp59a in Drosophila</td>
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<td>10:00 – 10:15</td>
<td><strong>George Burlsem (Crews Lab):</strong> Expanding the scope of targeted protein degradation</td>
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<td>10:15 – 10:45</td>
<td><strong>Coffee Break and Group Photo</strong></td>
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10:45 – 11:00  Ron Breaker: An ancient orphan riboswitch candidate

11:00 – 11:15  Sangjin Kim (Jacobs-Wagner Lab): Collaborative and antagonistic group behaviors of RNA polymerases

11:15 – 11:30  Renne Wasko (Horsley Lab): Protect and Serve: Elucidating the reparative role of skin sentinel cells

11:30 – 11:45  Brian DeAngelis (Clark Lab): How flies coordinate their legs to walk

11:45 – 12:00  Vivian Irish: On growth and form in petals

12:00  Awards Ceremony (Josien van Wolfswinkel)
   • Logo Competition Special Award - Clara Liao
   • 2018 MCDB Retreat Best Posters Awards (TBD)
   • 2018 Spangler Awards Recipients
     o Rachel Zwick (Horsley Lab)
     o Molly Scott (Jacobs-Wagner Lab)
   • MCDB Cup (TBD)

12:15  Picnic
   Boxed lunches provided by MBL.