UCSD & The University of Chicago present:

**Dynamics of Multifunction Brain Networks**

**MURI Winter School**

January 7-9, 2015

*15th Floor, Building 1, Village West, UCSD*

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**Wednesday, January 7, 2015**

- **8:15 am – 8:55 am**  
  Registration & Light Breakfast

- **8:55 am – 9:00 am**  
  Welcome Remarks: Dan Margoliash, Henry Abarbanel & Tim Gentner

  **Moderator:** Henry Abarbanel

- **9:00 am – 10:30 am**  
  Ofer Tchernichovski, *Hunter College*: Vocal learning beyond imitation: from cultural evolution to brain dopamine

- **10:30 am – 12:00 pm**  
  Richard Mooney, *Duke*: Neurobiology of vocal learning

- **12:00 pm – 1:30 pm**  
  Lunch

  **Moderator:** Dan Margoliash

- **1:30 pm – 3:00 pm**  
  Gabriel Mindlin, *University of Buenos Aires*: The biomechanics of birdsong production

- **3:00 pm – 3:30 pm**  
  Coffee break

- **3:30 pm – 5:00 pm**  
  Tim Gardner, *Boston University*: High density neural recordings in singing birds: methods and observations

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**Thursday, January 8, 2015**

- **8:30 am – 9:00 am**  
  Coffee & Check In

  **Moderator:** Tim Gentner

- **9:00 am – 10:30 am**  
  Michael Long, *NYU*: How does the brain generate neural sequences?

- **10:30 am – 12:00 pm**  
  Marc Schmidt, *UPenn*: Brainstem and forebrain contributions to the generation of learned motor behaviors for song

- **12:00 pm – 1:30 pm**  
  Lunch

  **Moderator:** Gert Cauwenberghs

- **1:30 pm – 3:00 pm**  
  Gabriel Mindlin, *University of Buenos Aires*: Low dimensional dynamics systems behind birdsong production

- **3:00 pm – 5:00 pm**  
  Poster Session with Light Refreshments

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For more information please see the BioCircuits Institute website at [biocircuits.ucsd.edu](http://biocircuits.ucsd.edu)
Friday, January 9, 2015

8:30 am – 9:00 am  Coffee & Check In

Moderator: Mikhail Rabinovich

9:00 am – 10:30 am  Ofer Tchernichovski, Hunter College: How a song is learned: mechanisms of template matching

10:30 am – 12:00 pm  Richard Mooney, Duke University: Forward mechanisms for hearing and learning

12:00 pm – 1:30 pm  Lunch

Moderator: Katja Lindenberg

1:30 pm – 3:00 pm  Michael Long, NYU: Using temperature to manipulate dynamics in brain circuits

3:00 pm – 3:30 pm  Coffee Break

3:30 pm – 5:00 pm  Marc Schmidt, UPenn: Thinking beyond song: Is the song system involved in posture control and sexual receptivity?