

IIGB FACULTY FORUM
Monday, November 16, 2015: 12:00pm
Genomics Auditorium, Rm 1102

–AGENDA–

- I. Announcements [**N. Raikhel**]
- A. New IIGB Faculty: Currently 98 Faculty Total, 4 Academics
Meng Chen, BPS (CEPCEB, eff. 8/15)
Joey Genereux, CHEM (7/15)
Carolyn Rasmussen, BPS (CEPCEB, eff. 7/14)
Rakesh Kaundal, BPS (CEPCEB, eff. 7/14)
Adler Dillman, NEMA (CDVR, eff. 2/15)
Eamonn Keogh, CSE (CDVR, eff. 9/14)
Fedor Karginov, CBN (CEPCEB, eff. 10/14)
Paul Larsen, BIOCHEM (CEPCEB, eff. 6/1/14)
Amy Litt, BPS (eff. 1/15)
Quinn S. McFrederick, ENT (IIGB, eff. 11/14)
Jaimie Van Norman, BPS (CEPCEB, eff. 1/15)
Ian Wheeldon, CEE (eff. 2/15)
Omar Akbari, ENT (CDVR)
Kathy Borkovich recommended inviting the following from PPM: Patricia Manosalva, Rong Hai, Ansel Hsiao, and Emma Aronson.
- B. Status of IIGB Director TOE Search [**N. Raikhel**]
- i. **Hired: Katie Dehesh, Botany & Plant Sciences, eff. August 1, 2016**
- Metabolomics Core Facility Faculty Committee: Patricia Springer (Chair, BPS), Yinsheng Wang (CHEM), Sean Cutler (BPS), Nicholas Dipatrizio (SOM), Natasha Raikhel (BPS), Katie Dehesh (BPS)
 - Location: Batchelor Hall 2215, 2215A, 2205, 2207, and 2209
 - Managed by Two Academic Coordinators
 - Faculty Positions: five faculty in metabolomics/lipidomics and synthetic biology
- C. Recruitments [**J. Bailey-Serres, T. Girke**]
- i. Recent IIGB-related Faculty Recruitments:
- **Computational Systems Biologist Recruitment**
 - Goal: Research in systems biology, using computational approaches or a combination of experimental and computational approaches
 - Search Committee: Thomas Girke (Chair, BPS), Sue Wessler (BPS), Sean Cutler (BPS), Jason Stajich (PPM), Julia Bailey-Serres (BPS)
 - **Hired: Daniel Koenig, Botany & Plant Sciences, eff. January 2016**
 - **Bioinformatics Recruitment**
 - Goal: Developing algorithms and statistical methods to solve problems stemming from large-scale biological data generated by high-throughput sequencing technologies.
 - Search Committee: Jason Stajich (Chair, PPM), Xinping Cui (STATS), Thomas Girke (BPS), Ted Karginov (CBN), Stefano Lonardi (CSE)
 - **Hired: Wenxiu Ma, Statistics, eff. July 1, 2015**
- ii. Current IIGB-related Faculty Recruitments:
- Virology (Shou-wei Ding Retention)
 - One of four searches has been successful
 - Next recruitment postponed until FY17
- D. Cluster Hires:
- **Genomics to Harvest [J. Bailey-Serres]**
 - **Translational Plant Sciences:** 5 jr/sr positions [J. Bailey-Serres]
 - a) Combined w/NR last retention position (focus: synthetic biology)
 - b) CNAS and BCOE search

- c) Goal: Build on existing strengths in plant biology and engineering to foster translation of basic research to applications in agriculture and biotechnology
- d) Search Committee: Julia Bailey-Serres (Chair, BPS), Harvey Blanch (CEE), Sean Cutler (BPS), Wenbo Ma (PPM), Sue Wessler (BPS), Ian Wheeldon, (CEE)
- o **Basic and Applied Pollination Research:** 3 positions [A. Litt]
 - a) Goal: Examine various aspects of pollinator and pollination biology
 - b) Search Committee: Tim Paine (Chair, ENT), Quinn McFrederick (ENT), Erin Rankin (ENT), Jeff Diez (BPS), Amy Litt (BPS), Hollis Woodard (ENT), Norm Ellstrand (BPS)
- o **Insect Vected Diseases/Mosquito Ecology** (4 positions)
 - a) Recruitment not yet active
- **Cluster Hires: Innovation Incubator**
 - o **The UCR Data Science Center:** 1 position [T. Girke]
 - a) Search Committee: Vassilis Tsotras (Chair, CSE), Ertem Tuncel (ECE), Stefano Lonardi, CSE), Bahram Mobasher (PA), Thomas Girke (BPS), Ilhem Messaoudi (SOM)
- Cluster Hires: Human Health and Well-Being
 - o **Pathophysiology and Systems Biology of Host-Microbe Interactions** (4 positions)
 - a) Recruitment not yet active

II. Interdisciplinary Project/Training Grants [J. Bailey-Serres]

A. Proposals:

i. Pending

- National Science Foundation Research Training (NRT) proposal:
 - o **“AgSense: Using innovative sensors and sensing technology in agricultural and biotechnological applications to enhance graduate education”**
 - o PI: Julia Bailey-Serres (BPS); Co-PIs: Anand Ray (ENT), Sean Cutler (BPS), Ashok Mulchandani (CEE), Harvey Blanch (CEE)
 - o CNAS, BCOE and Graduate Division Commitments toward student training
 - o Target: plant biologists, insect sensory biologists, biochemical and environmental engineers
 - o Funding Declined but resubmission underway
- National Science Foundation Engineering Research Centers (EEC) PreProposal: **“Engineering Research Center for Plant Translational Biotechnology (PlantBio)”**
 - o PI: Ashok Mulchandani (CEE),; Co-PIs: Julia Bailey-Serres (BPS), Harvey Blanch (CEE), Toni Kutchan (Donald Danforth Plant Science Center), Eleftherios Papoutsakis (University of Delaware)

ii. To Be Submitted

- National Institutes of Health: Insect Hormones Physiology - PO1 or Two Large RO1s, Due Feb 5 2016 : PI/Co-PIs - Anandasankar Ray, Mike Adams, Anupama Dahanukar, Naoki Yamanaka
- National Institutes of Health: Mosquito Behavior Project Grant – PO1, due March 25, 2016: PI/Co-PIs - Anandasankar Ray, Anupama Dahanukar, Eamonn Keogh, and 2 external PIs.

iii. Current

- CEPCEB NSF Research Experience for Undergraduates (REU) Program in Plant and Plant-Pathogen Cell Biology: 2015-20 [T. Eulgem]
- Goal: Train engineering and plant science students by developing a Professional Science Masters program in translational plant science that will develop innovative synthetic genetic and nanosensor technologies to

protect crops from drought, flooding, pests and pathogens and contribute to global challenges in agriculture and human health.

- Collaborative effort among UCR, Donald Danforth Plant Science Center, and the University of Delaware

III. IIGB Instrumentation Core Update

A. Microscopy Core [D. Carter]

David summarized the age of confocal instrumentation in his core, and asked for assistance from faculty and new hires in obtaining a new confocal. Currently, the only confocal that is not over twelve years old is the Leica SP5, which is used heavily by researchers on campus.

B. Proteomics Core [S. Pan]

- Implementation of LTQ Orbitrap Fusion Mass Spectrometer

C. Bioinformatics Core [R. Kaundal]

- Purchase and Installation of Big Data Compute and Storage Cluster

D. Genomics Core [G. Hicks]

- Purchase of New Equipment: NextSeq, Neoprep, Plate Reader/Luminometer, MiSeq; Pending: Bioanalyzer, Chemical Libraries

E. Soliciting Feedback (Surveys; help us help you by completing)

IV. New/Ongoing IIGB Initiatives [N. Raikhel]

A. IIGB Coffee Hour

- Fridays at 11:30am
- Goal: Stimulate Collaborative Discussions
- Faculty Coordinators: Rakesh Kaundal (1st floor), Naoki Yamanaka (2nd floor), Carolyn Rasmussen (3rd floor), Jaimie Van Norman (4th floor)

B. IIGB Website – Undergoing Revision this Year

- Images Needed
- Ideas Welcome – what do you want on site?
- Committee being developed – volunteers? Hailing Jin, Anand Ray, Linda Walling and Patty Springer volunteered

C. IIGB/CEPCEB/CDVR Seminars (N. Raikhel)

- Every other week
- Seminar Coordinators – THANK YOU!
 - CEPCEB Seminars
 - 2015-16 Faculty Coordinators:
 - Jaimie Van Norman/Carolyn Rasmussen
 - 2014-15 Faculty Coordinators:
 - Patty Springer/Thomas Girke
 - IIGB Seminars
 - 2015-16 Faculty Coordinator:
 - Ted Karginov/Thomas Girke
 - 2014-15 Faculty Coordinators:
 - Iryna Ethel/Jason Stajich
 - CDVR Seminars
 - 2015-16: 1 mini half-day symposium to save \$ for retreat
 - 2014-15 Faculty Coordinators:
 - Karine Le Roch/Anupama Dahanukar
 - Postdoc Seminars
 - 2015-16 Student Coordinator: Maria Irigoyen (Walling)
 - 2014-15 Student Coordinator: Laetitia Poidevin (Judelson)

D. Southern California Eukaryotic Pathogen Symposium (SCEP)

- Date: November 18, 2015**
- SCEP Organizing Committee: Karine Le Roch, Meera Nair, Jason Stajich, Emma Wilson

- E. CEPCEB Award Ceremony (J. Bailey-Serres)
 - i. **Date: Wed, December 16, 2015**
 - ii. Half-day symposium program
 - iii. 2015 Noel T. Keen Lecturer: Dr. Pamela Green, University of Delaware
Additional Invited Speaker: Stephanie Robert, Umea Plant Science Center, Sweden
 - iv. Call for Outstanding CEPCEB Postdoc, Graduate Student and Undergraduate Student Award Nominations NOW!! (submission deadline November 23, 2015)
 - v. 2015-16 Award Committee Members:
 - Isgouhi Kaloshian (chair), Chia-en Chang, Stefano Lonardi, Glenn Hicks, Brandon Le (Postdoc, Chen) Travis Lee (GSR, Bailey-Serres)
 - vi. Pre-college Awards:
 - State Science Fair: May 19, 2015
 - Judges: David Carter, Glenn Hicks and Travis Lee (Bailey-Serres)
 - Regional Inland Empire Science Fair: April 6, 2015
 - Judges: David Carter, Songqin Pan, Kestrel Rogers (Chen)
- F. CDVR Retreat (A. Ray)
 - i. **Date: In early Winter or late Spring quarter**
 - ii. Off-Campus: Temecula
 - iii. Full-day Retreat, Charter bus transportation, meals provided
- G. Natasha Raikhel Retirement Symposium
 - i. **Date: March 21, 2016**
 - ii. Full-day Symposium: 8-10 speakers (former lab members)
 - iii. Location: Genomics Auditorium
 - iv. Please register if haven't (<http://goo.gl/forms/bRSJtMhrXv>)
- H. Sue Wessler Neil A. and Rochelle A. Campbell Presidential Chair for Innovation in Science Education Symposium (celebration!)
 - i. **Date: May 6, 2016**
 - ii. Location: Genomics Auditorium
 - iii. Full-day program
- I. CEPCEB Postdoc Symposium
 - i. **Date: June 10, 2016**
 - ii. Coordinator: Maria Irigoyen (Walling)
 - iii. Full-day symposium

V. Questions/Comments/Concerns?