BIOSPHERE
The Weekly Bulletin of Biology

Biology Colloquium: Friday, 6 March 2015, 2:00 pm in CR 5125

**"Heat, Prey, Love: A Lizard's World View
through the Lens of Integrative and Comparative Biology"**

Robert Espinoza, Ph.D.
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New Publication

Dr. **Peter Edmunds** is the proud author of, "A quarter-century demographic analysis of the Caribbean coral, *Orbicella annularis*, and projections of population size over the next century" in *Limnology and Oceanography*. Age has its benefits.

Want to Contribute to Philosophy?

Biologists frequently make philosophical contributions. The annual CSUN Philosophy student conference is in the works. All CSUN students are welcome to attend (not just Philosophy majors). But, you could also sharpen your pencils and submit a paper to present.

- Do you think the textbook version of the scientific method could be improved?

- How do biologists use *P* values?

- What kind of category are taxonomic groups—does monophyly strengthen predictive power?

- If biology is lawless, unlike physics, what do we have instead?

Integrate what you learned in your GE philosophy classes with your biological thinking. Email Dr. Abel Franco.

Or if you just want to watch, come to the Whitsett Room (SH 451) at 8:45 am on Friday, 17 April.

Presented at CSUPERB

Biology had another strong presence at the CSU Annual Biotechnology Symposium. In what follows, only presenting authors are listed.

From the lab of Dr. **Ray Hong**:

- "16S rDNA sequence analysis of beetle microbiome in Los Angeles and their associated nematodes" by **Michael Gonzalez** and **Heilly Salinas**

- "Mode of action of a novel anthelmintic compound in *C. elegans*" **Brenda Mojica**.

- "The oriental beetle sex pheromone can arrest the development of *Pristionchus pacificus* nematode embryos" **Tess Renahan**.

From the lab of Dr. **David Bermudes**:

- **"**A chimeric protease inhibitor secreted by *Escherichia coli* with potential for use in biofuel fermentations and therapeutic bacteria" **David Quintero**

- "Isolation of bacteria from human skin producing secreted protease-inhibitors" **Umu Rogers**

Also with Dr. **Rachel Mackelprang**:

- **"**An *Escherichia coli* strain capable of degrading tricarballylate, a metabolite associated with grass tetany in ruminants" **Stephanie Kapucija**

From the lab of Dr. **Sean Murray**,

- **"**A dynamically localizing polyester modulates bacterial cell size in response to nutrient availability" **Ignacio Arvizu** and **Bao Nguyen**

- **"**Spontaneous bacterial multidrug resistance through an efflux pump regulator mutation" **Ignacio Arvizu**

From the lab of Dr. **Michael Summers**:

- "Identification of a transcriptional regulator involved in cyanobacterial cell envelope integrity" **Tanya Markary**

- **"**Characterization of cyanobacterial lipid droplets and identification of lipid droplet-associated proteins" **Sean Hunter Geiger**

From the lab of Dr. **Cindy Malone**:

- **"**Identification and characterization of the miRNA-155 regulatory region" **Alina Adamian** and **Eliana Ochoa-Bolton**

- **"**Mantle cell lymphoma associated gene, NAP1L1, promoter isolation and characterization" **Loni Hands** and **Alina Adamian**

From the lab of Dr. **Jonathan Kelber**:

- **"**PEAK1 kinase acts as a molecular switch to mediate TGFbeta-induced EMT in breast cancer" **Megan Agajanian**

- "Function and mechanism of Cripto/oep in stem cells and tissue regeneration" **Caroline Arellano-Garcia** and **Gabriela Alvarez**

- "Methods for rapid extraction of high-quality RNA from FFPE cancer tissue" **Malachia Hoover**

- "The role of ITGA1 in pancreatic cancer" **Sa La Kim**

- **"**RAI14 regulates pancreatic cancer cell proliferation, migration and response to Src kinase inhibition" **Yvess Adamian**

- "Herceptin resistance correlates with brain-specific metastatic potential of HER2-poisitive breast cancer cells" **Justin Molnar**

Drs. **Gilberto Flores** and **Rachel Mackelprang** led a workshop, "Next-Generation Sequencing in the Classroom."