

**Third Annual**  
**Western Evolutionary Biology Meeting**  
**University of California Berkeley**  
**December 5<sup>th</sup>, 2009; 2050 Valley Life Sciences Bldg.**

- 8:15 AM** *Continental breakfast\**
- 9:00 AM** Director's welcome
- 9:15 AM** Modulation of Fgf3 dosage in mice and men mirrors evolution of mammalian dentition.  
**Cyril Charles**, UC San Francisco
- 9:30 AM** Evolutionary comparisons of nematode dosage compensation and sex determination.  
**Te-Wen Lo**, UC Berkeley
- 9:45 AM** Whole methylome comparisons reveal segregation of methylation patterns in human and chimpanzee. **Dario Boffelli**, Children's Hospital Oakland Research Institute
- 10:00 AM** Chromosome evolution: a lesson from the gibbons. **Lucia Carbone**, Children's Hospital Oakland Research Institute
- 10:15 AM** *Break\* & Poster Session*
- 10:30 AM** Phylogenomic orthology prediction using the Berkeley PHOG algorithm. **Ruchira Datta**, UC Berkeley
- 10:45 AM** Orthologues of *Arabidopsis thaliana* stomatal bHLH genes and regulation of stomatal development in grasses. **Tie Liu**, Stanford
- 11:00 AM** Mesodermal and ectodermal segmentation in the amphipod crustacean *Parhyale hawaiiensis*: Implications for the evolution of segmentation. **Roberta Hannibal**, UC Berkeley
- 11:15 AM** The genetic basis of morphological evolution in the cave isopod, *Asellus aquaticus*.  
**Meredith Protas**, UC Berkeley
- 11:30 AM** The evolution of unusually long exons in choanoflagellates, sponges, and eumetazoans.  
**Marjorie Jody Westbrook**, UC Berkeley
- 11:45 AM** RNA expression patterns in Coccidioides using RNAseq to unravel a fungal pathogen.  
**Emily Whiston**, UC Berkeley
- 12:00 PM** Nurture over nature: Testing for evidence of reproductive isolation of summer germinating *Lupinus nanus*.  
**Veronica Morris**, UC Berkeley
- 12:15 PM** Population differentiation in two lupine species. **Jessica Shade**, UC Berkeley
- 12:30 PM** *Lunch\* & Poster Session*
- 1:45 PM** Rapid diversification of parasitoid guild members in concert with their speciating host.  
**Andrew A. Forbes**, UC Davis
- 2:00 PM** The evolution of polyembryony in parasitoid wasps. **Michal Segoli**, UC Davis
- 2:15 PM** The precision of host sanctions in the fig wasp-fig tree mutualism. **Charlotte Jandér**, Cornell University
- 2:30 PM** Are there ecological limits on diversification? **Helen Morlon**, UC Berkeley, Univ. of Pennsylvania
- 2:45 PM** Evolutionary diversification in form and function of the boxfish carapace.  
**Tina Marcroft**, UC Los Angeles
- 3:00 PM** *Break\* & Poster Session*
- 3:15 PM** Phylogeny of pufferfish (Tetraodontidae). **Mai Nguyen**, UC Los Angeles
- 3:30 PM** Development of molecular markers for the discrimination of Atlantic and Pacific populations of istiophorid billfishes. **Laurie Sorenson**, UC Los Angeles
- 3:45 PM** Ecosystem consequences of local adaptation in Trinidadian guppies. **Ronald Bassar**, UC Riverside
- 4:00 PM** An experimental assessment of ecological-evolutionary feedback in the wild using aphids.  
**Martin Turcotte**, UC Riverside
- 4:15 PM** The evolution of photo transduction and its role in behavior in *Hydra magnipapillata*. **Caitlin Fong**, UC Santa Barbara
- 4:30 PM** Contrasting the relative importance of pre- and post-copulatory sexual selection.  
**Alison Pischedda**, UC Santa Barbara
- 4:45 PM** *Break\* & Poster Session*
- 5:00 PM** Presentation of the third annual Western Evolutionary Biologist of the Year (WEBY) Award.
- 5:15 PM** Third Annual WEBY Address
- 6:15 PM** Concluding remarks
- 6:30 PM** Directors' hosted dinners at local restaurants

\*All refreshments provided by the UC Berkeley NERE office

UNIVERSITY of CALIFORNIA



NETWORK FOR  
EXPERIMENTAL  
RESEARCH ON  
EVOLUTION