

NORTH AMERICAN COMPARATIVE IMMUNOLOGY WORKSHOP 2013 PROGRAM

Saturday June 22

12:00-6:00 Registration Santa Rosa Hall

5:30-6:30 Dinner Carrillo Dining Commons

All lectures are in Marine Sciences Research Building
(MSI Auditorium, Rm. 1302)

7:00-8:00 PM **Plenary Lecture David Schneider:** *Treating infections by warping disease space.*

8:30-10:30 PM Welcome Reception, Santa Rosa Hall

Sunday June 23

8:00-9:00 Breakfast Carrillo Dining Commons

9:15-10:15 **Plenary Lecture David Traver:** *Characterization of the zebrafish immune system*

10:15-10:35 **Larry Dishaw:** *Experimental manipulation of gut microbiota in the filter-feeding marine invertebrate, *Ciona intestinalis*.*

10:35-10:50 **Britanny Leigh:** *VCBPs, chemotaxis, and bacterial colonization of the *Ciona* gut.*

10:50-11:05 **Coffee Break**

11:05-11:20 **Leon Grayfer:** *A type I interferon of the amphibian *X. laevis* confers antiviral protection against the ranavirus Frog Virus 3*

11:20-11:35 **Graham Blyth:** *Interferon Induced Transmembrane (IFITM) proteins in the innate immune response of White Peking ducks to the influenza A virus*

11:35-11:50 **Alysson Blaine:** *Tripartite motif (TRIM) genes are upregulated in ducks infected with influenza A virus*

12:00-1:30 Lunch Carrillo Dining Commons

- 1:30- 2:30 **Plenary Lecture Ana Goyos** *The tale of Patr-AL: low cell surface expression of this Chimpanzee-specific nonclassical MHC Class I molecule is dependent on its cytoplasmic tail*
- 2:30-2:50 **Michael Criscitiello:** *B cell immunogenetics in the T cell receptor repertoire generation of shark*
- 2:50-3:05 **Eva-Stina Edholm:** *Essential role of nonclassical MHC class Ib molecules in differentiation of invariant T cells critical for viral immunity during early ontogeny in Xenopus*
- 3:05-3:20 **Emily Wroblewski:** *Major histocompatibility complex diversity of a wild chimpanzee population resembles that of a natural human population*
- 3:20-3:35 **Coffee Break**
- 3:35-3:50 **Lital Sever:** *Functional characterization of trout Tapasin and evidence for its association with MHC Class I.*
- 3:50-4:05 **Luke Chan:** *Modulation of MHC class I expression in ducks (Anas platyrhynchos)*
- 4:05-4:20 **Lisbeth Guethlein:** *The emergence of MHC-C and diversification of Orngutan KIR.*
- 4:20-4:35 **Katrina Krasnec:** *A Novel Family of Major Histocompatibility Complex Class I Genes found only in Marsupials and Monotremes*
- 4:35-4:55 **Brian Dixon:** *Functional Analysis of Major Histocompatibility Class I machinery in Rainbow Trout, Oncorhynchus mykiss*
- 4:55-5:15 **Charles Bigger:** *Aspects of alloimmune memory in a Gorgonian Coral.*
- 5:30-7:00 **Beach BBQ Goleta Beach**

Monday June 24

- 8:00-9:00 Breakfast *De La Guerra Dining Commons*
- 9:15 – 10:15 **Plenary Lecture Emily Troemel:** *Pathogenic strategies of microsporidia infection and exit from host cells.*
- 10:15-10:30 **Patrick Hannington:** *Immunological determinants of snail/schistosome compatibility*
- 10:30-10:45 **Sarah Buddenberg:** *Identification of immune genes and symbionts in uninfected and schistosome-infected *Biomphalaria pfeifferi* obtained from transmission foci in Kenya*
- 10:45-11:00 **Coffee Break**
- 11:00-11:20 **Louise Rollins-Smith:** *Immune evasion by *Batrachochytrium dendrobatidis*, the chytrid fungus linked to global amphibian declines*
- 11:20-11:40 **Jonathan Rast:** *Characterizing immunity in the sea urchin against the background of new echinoderm genome sequences*
- 11:40-11:55 **Catherine Schrankel:** *A gene regulatory network model for the development of immune cells in the purple sea urchin embryo*
- 12:00 - 1:00 Lunch *De La Guerra Dining Commons*
- 1:15-2:30 **VENDOR SHOW MSI 2nd Floor Balcony**
- 2:30- 3:30 **Plenary Lecture Brant Herrin:** *Cyclostome B cells and antibodies*
- 3:30-3:45 **Jeffrey Havixbeck:** *Primordial mechanisms of inflammatory control by sea lamprey phagocytes.*
- 3:45-4:00 **Nathan Vo:** *Development of long-term primary cell cultures to define the innate and adaptive immune cells in rainbow trout fins*
- 4:00-4:20 **Brad Magor:** *Differential response of goldfish kidney and spleen melanomacrophages to in vivo and in vitro stimuli.*
- 4:20-4:40 **Coffee Break**

- 4:40-4:55 **Eric Ho:** *Sea urchin IL-17 in a gut-associated immune response*
- 4:55-5:10 **Aja Rieger:** *Soluble CSF-1R is a potent regulator of anti-inflammatory processes in goldfish*
- 5:10-5:30 **Kathy Magor:** *Defense genes missing from the flight division*
- 6:00-7:00 Dinner *De La Guerra Dining Commons*
- 7:30-10:00 **Posters and Reception, Faculty Club**

Tuesday June 25th

- 8:00-9:00 Breakfast *De La Guerra Dining Commons*
- 9:15-10:15 **Plenary Lecture Kate Buckley:** *A gene regulatory network approach to characterizing innate immunity in a simple invertebrate model*
- 10:15-10:35 **Courtney Smith:** *The Sp185/333 system in the California purple sea urchin, *Strongylocentrotus purpuratus*; diversity in the genes, mRNAs and proteins*
- 10:35-10:50 **Cheng Man Lun:** *Three regions of a recombinant Sp185/333 immune protein from the California purple sea urchin mediate bacterial binding and protein multimerization*
- 10:50-11:05 **Coffee Break**
- 11:05-11:25 **Melanie Wilson:** *Channel catfish, *Ictalurus punctatus*, immunoglobulin binding receptors*
- 11:25-11:40 **Myron Zwozdesky:** *Evidence for immunoregulatory receptor functional duality in teleosts*
- 11:40-11:55 **Dustin Lillico:** *Examination of channel catfish leukocyte immune-type receptor-mediated control of phagocytosis*
- 11:40-12:30 Presentation of Student Awards and General Discussion