

**2014 North American Comparative Immunology Workshop**  
**May 31 – June 3, 2014**  
Albuquerque, New Mexico  
PROGRAM

***Saturday, May 31: Hotel Albuquerque***

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- 5:00 – 9:00 PM **Registration**  
Fireplace Room
- 5:00 – 6:00 PM **Cocktails**  
Pavilion
- 6:00 – 6:15 PM **Welcome**  
**Eric S Loker, PhD, CETI Director**  
**Michael Dougher, PhD, Vice Provost for Academic Affairs, UNM**  
Fireplace Room
- 6:15 – 7:15 PM **Christopher Bayne, PhD**  
**Oregon State University**  
“Is self-recognition ubiquitous in immune systems?”
- 7:15 PM **Dinner**  
Pavilion

***Sunday, June 1: Albuquerque Museum of Art & Art History***

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- 8:30 – 10:00AM **Registration**  
Ventana Salon
- 9:00 – 10:00 AM **Rob Miller, PhD**  
**University of New Mexico, CETI**  
“Mammalian immune systems with a view from the pouch”  
Ventana Salon
- 10:00 – 10:20 AM **Michelle Gordy**  
**University of Alberta School of Public Health**  
“Assessment of the conservation and importance of FREPS in determining snail-trematode compatibility”
- 10:20 – 10:40 AM **Martin Flajnik, PhD**  
**University of Maryland**  
“About those missing shark cytokines”
- 10:40 – 11:00 AM **BREAK**
- 11:00 – 11:20 AM **Jeffrey Yoder, PhD**  
**North Carolina State University**  
“Zebrafish larvae reveal a novel mediator of macrophage chemotaxis”
- 11:20 – 11:40 AM **Casey Borthwick**  
**University of Western Sydney**  
“Molecular identification and characterization of expressed sequences for the interleukin-6 and interleukin-6 receptor  $\alpha$  genes in Dasyurid marsupials”
- 11:40 – 12:00 PM **Amy Suthers**  
**University of Western Sydney**  
“Isoforms of the CD79 signal transduction component of the macropod B-cell receptor and development of a macropod specific polyclonal antibody”

- 12:00 – 1:00 PM **LUNCH**  
Ventana Salon
- 1:00 – 2:00 PM **Alan Perelson, PhD**  
Los Alamos National Laboratory, CETI  
“Modeling viral infections of humans: HIV & HCV”
- 2:00 – 2:20 PM **Dustin Lillico**  
University of Alberta  
“Examination of LITR-mediated phagocytosis reveals a unique ITAM-independent pathway to make cells eat”
- 2:20 – 2:40 PM **Yuko Ota, PhD**  
University of Maryland  
“Inferring the primordial MHC: analysis of MHC and MHC paralogous regions in *Xenopus* and human”
- 2:40 – 3:00 PM **Brian Dixon, PhD**  
University of Waterloo  
“Tapasin functions as the core regulatory element in the putative peptide loading complex of rainbow trout”
- 3:00 – 3:20 PM **BREAK**
- 3:20 – 3:40 PM **Thad Deiss**  
Texas A&M University  
“Immunogenetics of ultralong CDR3 ‘Cattlebodies”
- 3:40 – 4:00 PM **Maria Castillo, PhD**  
New Mexico State University  
“Diversity of the family of thioester-containing proteins (TEPS) in a molluscan model, the squid *Euprymna tasmanica*”
- 4:00 – 4:20 PM **Coen Adema, PhD**  
University of New Mexico, CETI  
“Perspectives on FREP diversity in the snail *Biomphalaria glabrata* from targeted and ‘omics’ approaches”
- 4:20 – 4:40 PM **Matan Oren, PhD**  
George Washington University  
“Single sea urchin phagocytes express a single gene from the diverse Sp185/333 immune response gene family”
- 4:40 – 5:00 PM **In Memory of Professor Zeev Pancer**  
Words from Martin Flajnik
- Dinner on your own**

**Monday, June 2: Albuquerque Museum of Art & Art History**

- 9:00 – 10:00 AM **Anthony De Tomaso, PhD**  
University of California, Santa Barbara  
“Allorecognition in the colonial chordate, *Botryllus schlosseri*”  
Ventana Salon
- 10:00 – 10:20 AM **Brad Magor, PhD**  
University of Alberta  
“Evolutionary emergence of the immunoglobulin gene mutator, AICDA, in like a lamb?”

- 10:20 – 10:40 AM **Myron Zwozdesky**  
University of Alberta  
“Examination of the LITR-mediated signaling events provides insights into a unique ITAM-independent phagocytic pathway”
- 10:40 – 11:00 AM **BREAK**
- 11:00 – 11:20 AM **Katherine Buckley, PhD**  
University of Toronto  
“A transcriptomic strategy to investigate the sea urchin larval gut-associated immune response”
- 11:20 – 11:40 AM **Charles Bigger, PhD**  
Florida International University  
“The cellular basis of a coral allogeneic response”
- 11:40 – 12:00 PM **Ali Sepahi**  
University of New Mexico, CETI  
“Characterization of the chemokine CCL19 in rainbow trout (*Oncorhynchus mykiss*)”
- 12:00 – 1:00 PM **LUNCH**
- 1:00 – 2:00 PM **Jamie Rossjohn, PhD**  
Monash University  
“Immune recognition of vitamin B metabolites”
- 2:00 – 2:20 PM **K. Fraser Clark, PhD**  
University of Prince Edward Island  
“Comparative tissue expression of American lobster (*Homarus americanus*) immune genes during bacterial and scuticociliate infection”
- 2:20 – 2:40 PM **Larry Dishaw, PhD**  
University of South Florida & All Children’s Hospital  
“Evidence for compartmentalized regulation of host-bacterial interactions in the gut of *Ciona intestinalis*”
- 2:40 – 3:00 PM **Eric Ho**  
University of Toronto & Sunnybrook Research Institute  
“Constructing an IL-17 anchored gene regulatory network for gut associated immunity”
- 3:00 – 3:20 PM **BREAK**
- 3:20 – 3:40 PM **Luca Tacchi, PhD**  
University of New Mexico, CETI  
“Organized nasopharynx-associated lymphoid tissue is present in lungfishes (DIPNOI), the closest relatives to all tetrapods”
- 3:40 – 4:00 PM **Nikki Traylor-Knowles, PhD**  
Stanford University  
“Some (do not) like it hot: the role of tumor necrosis factor receptor in heat-stressed corals”
- 4:00 – 4:20 PM **Jeffrey Havixbeck**  
University of Alberta  
“Mobilization of neutrophils during the acute inflammatory response of teleost fish”
- 4:20 – 4:40 PM **Michael Wong**  
University of Alberta  
“The impact of behavioural fever on the induction and resolution of inflammatory

processes in teleost fish”

4:40 – 5:00 PM **Erin Taylor**  
**University of Mississippi**  
“Leukocyte immune-type receptors (LITRs) are markers for channel catfish antiviral cytotoxic cells”

6:00 – 10:00 PM **Conference Dinner, planetarium shows, and curator guided tours**  
New Mexico Museum of Natural History & Science

7:30 – 9:30 PM **Poster Session**  
2<sup>nd</sup> floor atrium, New Mexico Museum of Natural History & Science

***Tuesday, June 3: Albuquerque Museum of Art & Art History***

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9:00 – 10:00 AM **Kathy Magor, PhD**  
**University of Alberta**  
“Influenza detection and RIG-I activation in ducks”  
Ventana Salon

10:00 – 10:20 AM **Jaques Robert, PhD**  
**University of Rochester Medical Center**  
“The complex roles of macrophage-lineage cells in ranaviral diseases”

10:20 – 10:40 AM **Eva-Stina Edholm, PhD**  
**University of Rochester Medical Center**  
“Prominent roles of nonclassical MHC restricted invariant T cells in *X. laevis* tadpole viral immunity”

10:40 – 11:00 AM **BREAK**

11:00 – 11:20 AM **Graham Blyth**  
**University of Alberta**  
“An IFITM protein of duck restricts influenza A virus”

11:20 – 11:40 AM **Louise Rollins-Smith, PhD**  
**Vanderbilt University**  
“The lymphotoxic factors produced by the frog-killing fungus, *Batrachochytrium dendrobatidis*”

11:40 – 12:00 PM **Martina Laidemitt**  
**University of New Mexico, CETI**  
“Interspecific interactions between schistosomes and other trematodes in field-collected snails in Kenya: ecology, immunology, or both?”

12:00 – 12:20 PM **Cheng-Man Lun**  
**George Washington University**  
“A recombinant SP185/333 protein from the purple sea urchin is predicted to be intrinsically disordered and shows flexible binding”

12:20 – 12:40 PM **Hung-Yen Chou**  
**George Washington University**  
“The SP185/333 proteins from the California purple sea urchin augment phagocytosis and retard bacterial growth”