

**NORTH AMERICAN COMPARATIVE IMMUNOLOGY WORKSHOP
-ITINERARY-**

Tuesday, June 5

- 4:00-7:00pm: **Registration and check in**
- 7:00-9:00pm: **Welcome reception**

Wednesday, June 6

- 8:00-8:30am: **Continental breakfast**
- 8:30am: **Welcome and introductions**
- 9:00-9:45am: **Plenary session: Anthony de Tomaso:** Education matters- evolution of allorecognition specificity and the adaptive immune system (pg. 7)
- 9:45-10:00am: **Catherine S Schrankel:** A gene regulatory network for the transition from multipotency to differentiation: Ancient roles of hematopoietic factors revealed in sea urchin immunocyte development (pg. 14)
- 10:00-10:15am: **Eric Ho:** An IL-17 anchored gene regulatory network for gut associated immunity (pg. 15)
- 10:15-10:30am: **Katherine Buckley:** Whole-transcriptome sequencing to identify novel mediators of immunity (pg. 16)
- 10:30-10:50am: **Coffee break**
- 10:50-11:05am: **Patrick C Hanington:** Functional assessment of FREPs, somatically diversified molluscan immune molecules (pg. 17)
- 11:05-11:20am: **Aja M Reiger:** Evolution of neutrophil regulatory mechanisms for the control of inflammation (pg. 18)
- 11:20-11:35am: **Leon Grayfer:** Macrophage development in the amphibian *Xenopus laevis* (pg. 19)
- 11:35-11:50am: **Johanna M Lund:** Characterization of a novel soluble CSF-1 receptor in teleost fish (pg. 20)
- 11:50-12:05am: **Barbara A Katzenback:** Expression analysis of myeloid transcription factors in goldfish (*Carassius auratus* L.) myeloid cell subsets (pg. 21)
- 12:15-1:30pm: **Lunch**
- 1:30-2:15pm: **Plenary session: James Stafford:** Channel catfish leukocyte immune-type receptors: modulators of innate immune cell effector responses (pg. 8)
- 2:15-2:30pm: **Eva-Stina Edholm:** Identification of a nonclassical MHC class Ib-restricted innate CD8 T cell subset expressing an oligoclonal α/β TCR repertoire (pg. 22)

- 2:30-2:45pm: **Ana Goyos:** Endosomal localization of Patr-AL, a chimpanzee-specific nonclassical MHC class I molecule (pg. 23)
- 2:45-3:00pm: **Herman Cortes:** Understanding channel catfish (*Ictalurus punctatus*) leukocyte immune-type receptors (IpLITRs) (pg. 24)
- 3:00-3:15pm: **Benjamin CS Montgomery:** Channel catfish leukocyte immune-type receptors mediate inhibition of cytotoxicity through both phosphatase- and kinase-mediated mechanisms (pg. 25)
- 3:15-3:35pm: **Coffee break**
- 3:35-3:50pm: **Erin B Taylor:** Antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus* (pg. 26)
- 3:50-4:05pm: **Luca Tacchi:** Skin commensals are stress sensors in rainbow trout (*Oncorhynchus mykiss*) (pg. 27)
- 4:05-4:20pm: **Alysson H Blaine:** The Innate Immune response of White Pekin ducks to Influenza A Virus involves the Tripartite Motif (TRIM) family of genes (pg. 28)
- 4:20-4:35pm: **Katharine E Magor:** Transcriptional analysis of chicken cells expressing duck RIG-I during influenza infection (pg. 29)
- 4:35-4:50pm: **Lital Sever:** Cloning and characterization of ERp57 in rainbow trout (pg. 30)
- 5:05-5:15pm: **Hristina Nedelkovska:** RNAi silencing of β 2-microglobulin *in vivo* leads to impaired immune function in *Xenopus laevis* (pg. 31)
- 6:30pm: **Dinner**

Thursday, June 7

- 8:30-9:00am: **Continental breakfast**
- 9:00-9:45am: **Plenary session: Katherine Knight:** B cell and antibody repertoire development in rabbit bone marrow and gut-associated lymphoid tissues: Role of intestinal microbiota (pg. 9)
- 9:45-10:00am: **Jonathan Shouten:** Patterns of immunoglobulin and IHNV expression in the anterior kidney of spawning sockeye salmon using qPCR (pg. 32)
- 10:00-10:15am: **Laura D Satizabal:** Characterization of melano-macrophage gene expression and their possible role in the goldfish (*Carassius auratus L.*) antibody affinity maturation (pg. 33)
- 10:15-10:30am: **Emmanuel Pila:** Transcriptional regulation of the zebrafish activation-induced cytidine deaminase (AID) gene (pg. 34)
- 10:30-10:50am: **Coffee break**
- 10:50-11:05am: **Francisco Ramirez-Gomez:** Secretory immunoglobulin D in Rainbow trout: How its incidental discovery is leading to an understanding of its distribution and function (pg. 35)

11:05-11:20am: **Kate Rego:** Identification of a new immunoglobulin light chain isotype, Ig lambda, and characterization of immunoglobulin light chain expression and family utilization in rainbow trout, *Oncorhynchus mykiss* (pg. 36)

12:00-2:30pm: **Lunch and poster session**

2:30-3:15pm: **Plenary session: Melanie Wilson:** What we know and what we don't know about channel catfish, *Ictalurus punctatus*, B and T cells (pg. 10)

3:15-3:30pm: **Patty Zwollo:** Identification of Developing and Activated B Cell Populations in Rainbow Trout Immune Tissues using Pax5 Signatures (pg. 37)

3:30-3:45pm: **Hayley Dirscherl:** Characterization of the ZE-lineage MHCI genes in zebrafish (pg. 38)

3:45-4:00pm: **Scott J Fites:** *Batrachochytrium dendrobatidis*, an emergent pathogen linked to amphibian declines, produces factors that inhibit adaptive immunity in amphibians and mammals (pg. 39)

4:15-4:35pm: **Coffee break**

4:35-5:20pm: **Plenary session: Ellen Hsu:** Origin of immunoglobulin isotype switching (pg. 11)

7:00pm: **Banquet and Awards ceremony**

Friday, June 8

8:30-9:00am: **Continental breakfast**

9:00-9:45am: **Plenary session: Louise Rollins-Smith:** Paralysis of the amphibian immune defense against chytridiomycosis-the battle in the skin (pg. 12)

9:45-10:00am: **Michael F Criscitiello:** Somatic hypermutation for primary $\alpha\beta$ T cell repertoire generation in shark (pg. 40)

10:00-10:15am: **Jeff A Yoder:** Genomic and functional characterization of the diverse immunoglobulin domain-containing protein (DICP) family (pg. 41)

10:15-10:30am: **Ivan Rodriguez-Nunez:** Polymorphism analyses and tissue specific expression of DICPs in zebrafish (pg. 42)

10:30-10:45am: **Brian Dixon:** Long-term fin explant cultures from rainbow trout are hematopoietic and produce dendritic cells (pg. 43)

11:00am: **Discussion of next year's NACIW meeting**