

Saturday

- 15:00 Registration
16:00 Welcome, Jonathan Rast
16:10 J. Oriol Sunyer, AN ESSENTIAL ROLE OF IGT FOR PATHOGEN CLEARANCE AND MICROBIOME HOMEOSTASIS AT MUCOSAL SURFACES
16:35 Uma B. Karadge, HYDROID ALLORECOGNITION PROTEINS EXHIBIT ISOFORM-SPECIFIC HOMOPHILIC BINDING
17:00 Break
18:00 Gary W. Litman, THE LONG PHYLOGENETIC HISTORY OF THE IMMUNOGLOBULIN VARIABLE DOMAIN AND THE ORIGINS OF IMMUNITY
19:30 Opening Reception

Sunday

Session 2: Mucosal Immune Systems

- 8:30 Edan Foley, IDENTIFICATION OF A NOVEL PATHOBIONT IN DROSOPHILA MELANOGASTER
8:55 Brittany Leigh ESTABLISHMENT AND MAINTENANCE OF MUCOSAL BARRIERS IN A PROTOCHORDATE GUT
9:20 Katherine M. Buckley A SIMPLE INVERTEBRATE MODEL FOR CHARACTERIZING THE GUT-ASSOCIATED IMMUNE RESPONSE
9:35 Victoria L. Hansen IMMUNE REGULATION DURING PREGNANCY IN A MODEL MARSUPIAL, THE GRAY SHORT-TAILED OPOSSUM MONODELPHIS DOMESTICA
9:50 Bethaney D. Fehrenkamp CHARACTERIZATION OF PASSIVE IMMUNE TRANSFER THROUGHOUT LACTATION IN A MODEL MARSUPIAL
10:05 Bassem Allam, TOWARDS A BETTER UNDERSTANDING OF MUCOSAL IMMUNITY IN BIVALVE MOLLUSKS
10:30 Coffee break

Session 3: Cell populations

- 11:00 Sebastian D. Fugmann, THE TRANSCRIPTOME OF DISTINCT COELOMOCYTE POPULATIONS IN *STRONGYLOCENTROTUS PURPURATUS*
11:25 Fumio Takizawa, PHENOTYPIC AND FUNCTIONAL CHARACTERIZATION OF CD4+ T CELL AND MACROPHAGE POPULATIONS IDENTIFIED BY SHORT AND LONG CD4 ISOFORMS OF RAINBOW TROUT
11:40 Patty Zwollo, B CELL SIGNATURES IN FLAVOBACTERIUM PSYCHROPHILUM-RESISTANT GENETIC LINES OF RAINBOW TROUT
11:55 Maureen Banach, XENOPUS NONCLASSICAL MHC CLASS IB MOLECULES & INNATE T CELLS IN TUMOR IMMUNITY
12:10 Paul F. Cotter, A COMPARISON OF MOTT CELL MORPHOLOGIES OF THREE AVIAN SPECIES - BAD BEHAVIOR BY PLASMACYTES?
12:25 Lunch

Session 4: Mechanisms of somatic diversification

- 1:30 Stephanie DeWitte-Orr, VIRAL DSRNA PRODUCTION AND SENSING IN RAINBOW TROUT
1:55 Katharine E. Magor, DIFFERENTIAL EXPRESSION OF RIG-I RESPONSIVE GENES IN DUCKS INFECTED WITH HIGH OR LOW PATHOGENIC AVIAN INFLUENZA

- 2:10 Danyel Evseev, STRAIN-SPECIFIC INTERACTION OF AVIAN INFLUENZA NON-STRUCTURAL PROTEIN 1 (NS1) WITH DUCK TRIPARTITE MOTIF-CONTAINING PROTEIN 25 (TRIM25)
- 2:25 Adrian Di Natale, TYPE-4 ICE STRUCTURING PROTEIN LS-12 IN RAINBOW TROUT
- 2:40 Janice C. Telfer, WC1 IS A HYBRID GAMMADELTA TCR CORECEPTOR AND PATTERN RECOGNITION RECEPTOR FOR PATHOGENIC BACTERIA.
- 3:05 Patrick Hanington, DEFINING THE IMMUNOLOGICAL PROCESSES UNDERLYING SNAIL-TREMATODE COMPATIBILITY
- 3:30 Coffee break

Session 5: Cell development and function

- 4:00 Bret Pearson , NOT A BLOOD FLUKE: USING FRESHWATER PLANARIANS TO UNDERSTAND DEVELOPMENT, FUNCTION, AND REGENERATION OF THE IMMUNE SYSTEM
- 4:25 Jeffrey J. Havixbeck, NEUTROPHIL FUNCTION: THE INDUCTION AND RESOLUTION OF ACUTE INFLAMMATION IN TELEOST FISH
- 4:40 Dustin M. Lillico, TELEOST LEUKOCYTE IMMUNE-TYPE RECEPTORS ACTIVATE DISTINCT PHAGOCYtic MODES FOR TARGET ACQUISITION AND ENGULFMENT
- 4:55 Jacques Robert, ROLE OF MACROPHAGES IN RANAVIRAL DISSEMINATION AND PERSISTENCE
- 5:10 Benyamin Rosental, PROLIFERATING CELL NUCLEAR ANTIGEN PROMOTES CANCER SURVIVAL THROUGH INHIBITION OF NKP44-MEDIATED NK CELL ATTACK
- 5:25 Irene Salinas, THE EVOLUTION OF NASAL IMMUNE SYSTEMS IN VERTEBRATES
- 6:00 Poster session

Monday

Session 6: Allorecognition

- 8:30 Ellen Hsu, IMMUNOGLOBULIN LIGHT CHAIN EXPRESSION IN NURSE SHARK
- 8:55 Stacie L. Seelye, GENOMIC ORGANIZATION OF THE ZEBRAFISH T CELL RECEPTOR ALPHA/DELTA LOCUS AND ANALYSIS OF EXPRESSED PRODUCTS
- 9:10 Dustin J. Weisel, CHARACTERIZATION OF NOVEL IMMUNOGLOBULIN-LIKE TRANSCRIPTS IN ZEBRAFISH
- 9:25 Emma Quinlan, CHARACTERIZATION OF ACTIVATION INDUCED CYTIDINE DEAMINASE IN EARLY-EVOLVED SPECIES
- 9:40 Tanya R. McKittrick, DEVELOPING UNIQUE GLYCAN BINDING REAGENTS USING AN ANCIENT IMMUNE SYSTEM
- 9:55 Marion Parsons, DISCOVERY OF NOVEL BIOMARKERS USING MONOCLONAL LAMPREY VLR ANTIBODIES
- 10:10 Matan Oren, THE GENOMIC STRUCTURE OF THE SP185/333 SEA URCHIN IMMUNE GENE FAMILY SUGGESTS A UNIQUE MACHINERY FOR GENE DIVERSIFICATION
- 10:25 Coffee break

Session 7: Pattern recognition receptors

- 10:50 Louise A. Rollins-Smith, UPDATE: THE LYMPHOTOXIC FACTORS PRODUCED BY THE FROG-KILLING FUNGUS, *BATRACHOCHTYRIUM DENDROBATIDIS*

- 11:15 Leon Grayfer, PREDOMINANT AMPHIBIAN (XENOPUS LAEVIS) TADPOLE TYPE III INTERFERON RESPONSE TO THE FROG VIRUS 3 RANAVIRUS
- 11:30 Graeme Lissner, DIFFERENTIAL INNATE ANTIVIRAL IMMUNE RESPONSE IN TWO RAINBOW TROUT CELL LINES FOLLOWING FROG VIRUS 3 (FV3) INFECTION
- 11:45 David G Tetrault, THE HUMAN ADAPTED INFLUENZA PB2 IS A POTENT INHIBITOR OF DUCK MAVS MEDIATED INTERFERON β SIGNALING IN AVIAN CELLS
- 12:00 Sarah Poynter, THE EFFECTS OF LENGTH ON THE dsRNA-INDUCED IMMUNE RESPONSE IN RAINBOW TROUT CELLS
- 12:15 C. Soullier, REGULATION OF KEY CYTOKINES OF INNATE IMMUNITY AND THE PROINFLAMMATORY RESPONSE OF RAINBOW TROUT (*Oncorhynchus mykiss*)
- 12:30 Lunch

Session 8: Host response to infection

- 13:30 Xinzhong Wu, FIRST CHARACTERIZATION OF CYCLOPHILIN FAMILY PROTEINS IN AN INVERTEBRATE OYSTER, CRASSOSTREA ARIAKENSIS GOULD
- 13:55 Eva-Stina Edholm, NONCLASSICAL MHC-RESTRICTED INVARIANT T CELLS ARE CRITICAL FOR EFFICIENT EARLY INNATE ANTI-VIRAL IMMUNITY IN THE AMPHIBIAN X. LAEVIS.
- 14:20 Barbara A. Katzenback, IDENTIFICATION AND TEMPERATURE REGULATION OF WALLEYE (*Sander vitreus*) ANTIGEN PRESENTATION PATHWAY TRANSCRIPTS IN THE WESK-11 CELL LINE
- 14:35 Shawna Semple, IDENTIFYING FUNCTIONAL IMMUNE MARKERS IN RAINBOW TROUT (*Oncorhynchus mykiss*) FAMILIES FOR RESISTANCE AND/OR SUSCEPTIBILITY AGAINST *Flavobacterium psychrophilum*
- 14:50 Michael Wong, INSIGHTS INTO THE MOLECULAR AND CELLULAR MECHANISMS BY WHICH BEHAVIOURAL FEVER INCREASES TELEOST IMMUNE EFFICIENCY
- 15:05 Coffee break
- 15:30 Terin Robinson, POLYMORPHISM OF THE MAJOR HISTOCOMPATIBILITY CLASS I CLASSICAL AND NON-CLASSICAL GENES IN ARCTIC CHARR (*Salvelinus alpinus*)
- 15:45 Jeffrey A. Yoder, POLYMORPHIC AND GENE CONTENT VARIATION OF ZEBRAFISH MHC CLASS I GENES
- 16:00 Tony De Tomaso,
- 16:15 Business meeting
- 18:30 Closing Reception