## Aquaculture Canada 2018

**Aquaculture Innovations for a Sustainable Future / L’innovation pour un développement aquacole durable**  
Hôtel Le Concorde Québec, Quebec City  

### SUNDAY, May 27 / DIMANCHE, mai 27

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>5:30 - 7:30 pm</td>
<td>President’s Reception / Réception du président</td>
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</table>
| 7:45 - 10:00 pm | Screening – Food Evolution – with Q&A / Évolution alimentaire – avec Q&R by Dr. Alison Van Eenennaam, UC Davis  
Kreighoff 2 and Borduas Room, Hôtel le Concorde |

### MONDAY, May 28 / LUNDI, 28 mai

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 8:30 - 9:30 | Opening Ceremonies
Stefanie Columbo, Aquaculture Association of Canada President  
Honorable Laurent Lessard, Ministre de l’Agriculture, des Pêcheries et de l’Alimentation du Québec (ou représentant) /  
Honourable Laurent Lessard, Minister of Agriculture, Fisheries and Food of Québec (or representative)Commercial Fisheries and Aquaculture  
Tim Kennedy, Executive Director, Canadian Aquaculture Industry Alliance  
Réjean Tremblay, Institut des sciences de la mer de Rimouski. Ressources Aquatiques Québec  
Grant Vandenberg, AAQ : l’Association des aquaculteurs du Québec, TFAEQ : Table filière de l’aquaculture en eau douce du Québec |
| 9:30 - 10:30 | Keynote Speaker / Conférencier principal: Dr. Allison Van Eenennaam (UC Davis), Moderator: Dr. Tillmann Benfey, UNB |
| 9:00 - 5:00 | Tradeshow / Stands d’exposition                                       |
| 10:30 - 11:00 | Nutrition Break / Pause Collation – Suzor Cote + Foyer            |

**11:00 - 11:30**  
Kreighoff 2 + Borduas  
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<tr>
<th>Landbased and RAS Aquaculture / Pisciculture en systèmes ouverts et fermés</th>
<th>Genomics and Epi-Genetics/ Génomique et épi-génétique en aquaculture</th>
<th>Shellfish Aquaculture / Aquaculture des mollusques</th>
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<tbody>
<tr>
<td>NAYLOR, Steve: FRESHWATER NET PEN PRODUCTION IN ONTARIO – WHERE WE’VE COME AND WHERE WE’RE GOING</td>
<td>KOOP, Ben: FUNCTIONAL ANNOTATION OF ALL SALMONID GENOMES (FASSG) (11:40-12:10)</td>
<td>FRECHETTE, Marcel: SERIAL KNOTS IN MUSSEL CULTURE ROPES AS ANTI-PREDATOR DEVICE: EXPANDING THE SIZE OF SPATIAL REFUGES FOR MUSSELS</td>
</tr>
<tr>
<td>STECHEY, Daniel: ESSENTIAL ELEMENTS OF RAS DESIGN &amp; MANAGEMENT</td>
<td>RISE, Matthew: ATLANTIC SALMON NUTRIGENOMICS: TOWARD DEVELOPMENT OF NOVEL DIETS TO IMPROVE FISH HEALTH</td>
<td>SCHMUTZ, Anthony: IMPACT OF OIL SPILL (DILUTED BITUMEN AND CONVENTIONAL CRUDE OIL) EXPOSITION DURING WINTER ICE-COVER ON BLUE MUSSEL (Mytilus edulis ) GENOTYPES AND THEIR SUBSEQUENT OFFSPRINGS.</td>
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<tr>
<td>ATKINSON, Steve: UPDATE ON THE STEELHEAD MODEL FARM</td>
<td></td>
<td>MERCALDO-ALLEN, Renee: USE OF POINT-OF-VIEW VIDEO CAMERAS TO DOCUMENT FISH INTERACTIONS WITH OYSTER CAGES: LESSONS LEARNED</td>
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**11:40**  
KOOP, Ben: FUNCTIONAL ANNOTATION OF ALL SALMONID GENOMES (FASSG) (11:40-12:10)

**12:10 - 12:30**  
**Lunch / Dîner - On Own / Non Compris**

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<tr>
<th>1:50 - 2:10</th>
<th>EASTMAN, Jeff: THE MANITOBA - CANADIAN MODEL AQUAFARM/ OVERVIEW &amp; ECONOMIC UPDATE</th>
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<tbody>
<tr>
<td>GEROME, Nicolas: Securing fish microbiota ontology: usefulness for aquaculture and natural population conservation. (1:50-2:20)</td>
<td>TOUPOINT, Nicolas: INNOVATIVE STRATEGIES FOR BIOFOULING CONTROL IN SHELLFISH FARMING</td>
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<thead>
<tr>
<th>2:10 - 2:30</th>
<th>ROBERTSON, Bill: THE ECONOMICS OF SMALL-SCALE (&lt;400 TONNES) RAS</th>
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<tbody>
<tr>
<td>2:20 CHARETTE, Steve: PHAGES, VACCINES, PROBIOTICS AND GENOMICS: TOWARDS AN INTEGRATED APPROACH FOR THE CONTROL OF FURUNCULOSIS, A SALMONID DISEASE</td>
<td>HOLBACH, Marine: LIMITING THE STRESS OF SCALLOP LARVAE IN FLOW-THROUGH SYSTEM: THE KEY FOR A COMMERCIAL PRODUCTION</td>
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<td>Time</td>
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<td>2:50 - 3:10</td>
<td>NDIAYE, Waly: P-TRAP: IN SITU CHELATION OF PHOSPHOROUS USING MICROENCAPSULATED ALUMINUM AND IRON SULFATE TO BIND INTESTINAL PHOSPHOROUS IN RAINBOW TROUT (Oncorhynchus mykiss). (Note: Presentation in French, slides in English).</td>
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<tr>
<td>3:10 - 3:40</td>
<td>LANDBASED AND RAS AQUACULTURE / PISCICULTURE EN SYSTÈMES OUVERTS ET FERMÉS</td>
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<tr>
<td>3:40 - 3:50</td>
<td>PANEL DISCUSSION (3:50-4:20)</td>
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<tr>
<td>3:50 - 4:10</td>
<td>PRESTON, Sarah: COMPARISON OF THREE SYSTEMS FOR CARBON DIOXIDE REMOVAL IN RECIRCULATING SALMON-SMOLT HATCHERIES</td>
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<tr>
<td>4:10 - 4:40</td>
<td>DREW, Timothy: PROGRESS ON THE APPLICATION AND EXTENSION OF INTENSIVE CULTURE TECHNIQUES FOR NEWLY-HATCHED WALLEYE (Sander vitreus) IN ONTARIO</td>
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<tr>
<td>4:50 - 4:55</td>
<td>DREW, Timothy: INTENSIVE CULTURE OF LAKE WHITEFISH (Coregonus clupeaformis) IN ONTARIO'S FISH CULTURE PROGRAM – 30 YEARS OF EXPERIENCE</td>
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<tr>
<td>4:30 - 5:10</td>
<td>CLIFFORD, Henry: AQUADVANTAGE SALMON: THE FUTURE OF SALMON FARMING</td>
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<tr>
<td>5:10 - 5:30</td>
<td>IPSFAD: PLENARY DISCUSSION: R&amp;D REQUIREMENTS IN THE FRESHWATER AQUACULTURE SECTOR</td>
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<tr>
<td>5:50 - 6:00</td>
<td>POSTER SESSION - AUTHORS IN ATTENDANCE / SESSION D'AFFICHES - AUTRES PRÉSENTS</td>
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<tr>
<td>6:30 - 11:00</td>
<td>Dr. Joe Brown BBQ and Live Auction / Dr. Joe Brown BBQ et vente aux enchères en direct - Pub Ozone Grande Allée (across street from hotel / en face de l'hôtel)</td>
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**TUESDAY, May 29 / MARDI, 29 mai**

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<tr>
<th>Time</th>
<th>Tradeshow / Stands d'exposition</th>
<th>Aquaculture Environmental Management / Gestion environnementale de l'aquaculture</th>
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<tr>
<td>8:30 - 8:40</td>
<td>Aquatic Animal Health / Santé des animaux aquatiques</td>
<td>Saloon Leduc/Fortrin</td>
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<tr>
<td>9:00 - 9:20</td>
<td>Seaweeds and Algae / Algues</td>
<td>Keyboard, Robin: CHARACTERIZATION OF BENTHIC BACTERIAL COMMUNITIES DURING PRODUCTION AND FALLOW PERIODS AT HARD-BOTTOM AQUACULTURE SITES IN NEWFOUNDLAND</td>
</tr>
<tr>
<td>9:00 - 9:20</td>
<td>Seaweeds and Algae / Algues</td>
<td>Armstrong, Ethan: INVESTIGATING THE USE OF SINGLE BEAM SONAR TO DETECT A BENTHIC AQUACULTURE FOOTPRINT IN NEWFOUNDLAND</td>
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<tr>
<td>9:20 - 9:40</td>
<td>GENERATING QUANTITATIVE CYTOKINE ASSAYS TO ASSESS SALMONID HEALTH STATUS AND IMMUNE RESPONSES</td>
<td>Simard, Emile: LOBSTER MOVEMENT AROUND SALMON FARMS IN NEW BRUNSWICK, CANADA</td>
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<tr>
<td>Time</td>
<td>Title</td>
<td>Speaker(s)</td>
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<td>9:40-10:00</td>
<td>ADJUVANTS IMPROVE THE PROTECTION CONFERRED BY IMMERSION VACCINES AGAINST YERSINIOSIS IN RAINBOW TROUT.</td>
<td>XU, Sophia</td>
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<tr>
<td>10:00-10:20</td>
<td>TOWARDS A SEAWEED CULTIVATION INDUSTRY IN NOVA SCOTIA</td>
<td>TREMBLAY, Isabelle</td>
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<tr>
<td>10:00-10:20</td>
<td>EVALUATING FAR-FIELD BENTHIC IMPACTS OF FINFISH AQUACULTURE IN COASTAL NOVA SCOTIA</td>
<td>EINNIS, Stephen</td>
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<tr>
<td>10:20-10:50</td>
<td>FROM FARMING TO FALLOWING: MARINE BENTHIC SEDIMENT HEALTH AND RECOVERY RATES BELOW A FINFISH AQUACULTURE LEASE IN SHELBURNE, NOVA SCOTIA</td>
<td>KOEPKE, J.</td>
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<tr>
<td>10:50-11:10</td>
<td>MARENNINE, A POTENTIAL ALTERNATIVE ANTIBIOTIC TO POLYMYXINE IN AQUACULTURE</td>
<td>BOUHIEL, Zeineb</td>
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<tr>
<td>11:00-11:30</td>
<td>CROSS, Stephen: A GROWING INTEREST IN SEAWEEDS – APPLIED RESEARCH AND COMMUNITY ENGAGEMENT TO SUPPORT COMMERCIALIZATION OPPORTUNITIES IN</td>
<td>CROSS, Stephen</td>
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<td>11:30-11:50</td>
<td>METABOLIC INDUCTION APPLIED TO Solieria chordalis (Distichosoma, Rhodophyta) CULTIVATION: A NEW STEP TO ADD VALUE TO MARINE BIOACTIVES MOLECULES</td>
<td>LEAL, Marceline</td>
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<tr>
<td>11:40-12:00</td>
<td>ELEMENTS TO BETTER UNDERSTAND THE RISK OF TRANSMISSION OF INFECTIOUS SALMON ANEMIA VIRUS (ISAV) FROM FARMED TO WILD FISH</td>
<td>GANNS, E.</td>
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<tr>
<td>12:00-12:20</td>
<td>DEVELOPING MODELS FOR TENACIBACULUM SP. INFECTIONS</td>
<td>GARNIER, P.: DEVELOPPEMENT DE L’ALGOCULTURE EN NORMANDIE</td>
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<tr>
<td>12:20-1:40</td>
<td>IMPROVING LIVELIHOODS OF SMALL SCALE SEAWEED FARMERS THROUGH THE INTEGRATED CO-OP BUSINESS MODEL: A CASE STUDY IN SOUTH SULAWESI, INDONESIA</td>
<td>LEADBEATER, Steve</td>
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<tr>
<td>1:40-2:00</td>
<td>3D MAPPING AND SPATIAL ANALYSIS OF RIVER HABITAT FOR ATLANTIC SALMON CONSERVATION IN THE INNER BAY OF FUNDY</td>
<td>DEVLAMERE, E.</td>
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<td>2:00-2:20</td>
<td>MAKING THE FARM A SUCCESS – THE CAREER PATHWAY TO SUSTAINABLE AQUACULTURE</td>
<td>ROBINSON, Shawn</td>
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<td>ROBINSON, Shawn</td>
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**Nutrition Break / Pause Collation – Suzor Cote + Foyer**

**Lunch / Diner - On Own / Non Compris**

**Keynote Speaker / Conférencier principal: Chef Andrew Gruel (Slapfish Restaurant Group), Moderator: Tim Kennedy, Executive Director, CAIA**

**Nutrition Break / Pause collation – Suzor Cote + Foyer**
### Wednesday, May 30 / Mercredi, 30 mai

#### 9:00 - 10:30

**Tradeshow / Stands d’exposition**

#### 8:30 - 9:30

**Keynote Speaker / Conférencier principal:** Maurice Moloney (CEO, Global Institute for Food Security), Moderator: Cyr Couturier, Marine Institute of Memorial University

#### 9:30 - 10:00

**Nutrition Break / Pause Collation – Suzor Cote + Foyer**

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<td>10:00 – 10:10</td>
<td>Fish Nutrition and Feeds / Alimentation et nutrition des poissons</td>
<td>Fish Physiology / Physiologie des poissons</td>
<td>Marine and Freshwater Integrated Multi-Trophic Aquaculture / Aquaponie et aquaculture multi-trophique intégrée</td>
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<tr>
<td>10:10 – 10:30</td>
<td>IGNATZ, Eric: GROWTH PERFORMANCE AND NUTRIENT UTILIZATION OF GROWTH HORMONE TRANSGENIC FEMALE TRIPLOID ATLANTIC SALMON (Salmo salar) REARED AT THREE TEMPERATURES</td>
<td>BEEMELMANS, Anne: THE TRANSCRIPTIONAL RESPONSE OF CULTURED ATLANTIC SALMON (Salmo salar) TO HIGH TEMPERATURE ALONE, OR IN COMBINATION WITH HYPOXIA</td>
<td>CHOPIN, Thierry: EVOLVING INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) SYSTEMS, KEY TO THE DEVELOPMENT OF A DIVERSIFIED AQUACULTURE INDUSTRY IN ATLANTIC CANADA AND THE WESTERN WORLD</td>
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<tr>
<td>10:30 – 10:50</td>
<td>CHOWDHURY, Kabir: GUT OR FEED? BREAKING THE MYTHS OF DIETARY PROTEASE IN AQUACULTURE</td>
<td>BENFEY, Tillmann: TRIPLOIDY HAS MINIMAL IMPACT ON HYPOXIA TOLERANCE AT HIGH TEMPERATURE IN RAINBOW TROUT (Oncorhynchus mykiss)</td>
<td>ROBINSON, Shawn: WHERE DOES INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) FIT INTO FOOD PRODUCTION IN CANADA?</td>
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<tr>
<td>10:50 – 11:10</td>
<td>VANDENBERG, Grant: ANTI-PROTEASE ACTIVITY OF FISH INTESTINAL HOMOGENATES IS CORRELATED TO PROXIMAL COMPOSITION OF LARVAL MEALS FROM BLACK SOLDIER FLY.</td>
<td>MARTINEZ-SILVA, Maria: PERFORMANCE ET VALEUR NUTRITIONNELLE DES NAUPLII DE CÉPÉPÈDES COMME NOURRITURE VIVANTE DANS L’ÉLEVAGE DES LARVES DE PLEU ROUGE (Pseudopleuronectes americanus)</td>
<td>CHOPIN, Thierry: COMPARING SALMON MONOCULTURE AND INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) WITH THREE COMPONENTS: A DISCOUNTED CASH-FLOW ANALYSIS OF AQUACULTURE OPERATIONS IN EASTERN CANADA</td>
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<tr>
<td>11:10 – 11:30</td>
<td>PFEUTI, Guillaume: INVESTIGATING THE FACTORS AFFECTING THE DIGESTIBILITY OF AMINO ACIDS IN TWO FEATHER MEALS AND IN THEIR PRE-TREATED CONTERPARTS IN RAINBOW TROUT (Oncorhynchus mykiss)</td>
<td>ZANUZZO, Fabio: INFLUENCE OF TEMPERATURE AND HYPOXIA ON THE STRESS RESPONSE OF ATLANTIC SALMON (Salmo salar) AND STEELHEAD TROUT (Oncorhynchus mykiss)</td>
<td>REID, Gregor: PERFORMANCE MEASURES AND MODELS FOR OPEN-WATER INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA)</td>
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<tr>
<td>11:30 – 11:50</td>
<td>XUE, Xi: DIETARY MANIPULATION OF ATLANTIC SALMON (Salmo salar) IMMUNE RESPONSE</td>
<td>AUDET, Céline: USING CHALLENGE TESTS TO STUDY PHYSIOLOGICAL PERFORMANCE OF SPECIES OF INTEREST IN AQUACULTURE</td>
<td>FONTAINE, Pierre-Olivier: THE BENEFIT OF THE INTEGRATION OF AN AQUAPONICS SYSTEM IN A TECHNICAL AQUACULTURE PROGRAM, THE QUEBEC FISHERIES AND AQUACULTURE SCHOOL (EPAG) MODEL.</td>
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<td>11:50 – 12:10</td>
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<tr>
<td>12:30 – 1:30</td>
<td>Student Awards Lunch (Student Presenters and Supervisors) and AAC BOD / Dîner et remise des prix étudiants (étudiants ayant présentés et superviseurs) et CA de l’AAC – 12:30-1:30pm</td>
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**POSTERS:**

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<td></td>
<td>LANE, Mark: LABOUR MARKET UPDATE FROM NEWFOUNDLAND AND POTENTIAL RECRUITMENT AND RETENTION STRATEGIES FOR THE FUTURE</td>
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<tr>
<td>Alternative Species Development / Développements des nouvelles espèces</td>
<td>CHIM SUNG, N.: CHOLESTEROL REQUIREMENT OF PENAEID SHRIMP: A REVIEW</td>
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<tr>
<td>Aquaculture Environmental Management / Gestion environnementale de l’aquaculture</td>
<td>WEITZMAN, J.: OPERATIONALIZING THE ECOSYSTEM APPROACH TO AQUACULTURE: DEVELOPING AN INTEGRATED FRAMEWORK FOR ATLANTIC SALMON (Salmo salar) CARRYING CAPACITY IN ATLANTIC CANADA</td>
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<tr>
<td>Aquatic Animal Health/ Santé des animaux aquatiques</td>
<td>PAQUET, V.: FROM A TO L: RECEPTOR ADSORPTION AND CELLULAR LYSIS BY BACTERIOPHAGES TARGETING Aeromonas salmonicida subsp. salmonicida, THE ETIOLOGICAL AGENT OF FURUNCULOSIS.</td>
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<td>MASSICOTTE, M-A.: MORE AND MORE PLASMIDS CAUSING ANTIBIOTIC RESISTANCE IN Aeromonas salmonicida ssp. salmonicida, THE CAUSATIVE AGENT OF FURUNCULOSIS IN SALMONIDS.</td>
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<td>BERNATCHEZ, A.: INCREASING DIVERSITY OF Aeromonas salmonicida: A BIRD CARRIER OF A FISH PATHOGEN</td>
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<td>LAVOIE, C.: HOW ARTIFICIAL REARING INFLUENCES THE MICROBIOTA OF ATLANTIC SALMON (Salmo Salar) THREE MONTHS AFTER STOCKING</td>
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<tr>
<td>Genomics and Epi-Genetics/ Génomique et épi-génétique en aquaculture</td>
<td>HORI, T.: USING THE ION PROTON AND AMPLISEQ PANELS TO INCREASE THE FEASIBILITY OF IMPUTATION-BASED GENOMIC SELECTION IN ATLANTIC SALMON</td>
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<tr>
<td>Fish Physiology / Physiologie des poissons</td>
<td>AJIBOYE, O.: IMPACTS OF HIGH TEMPERATURE AND HYPOXIA ON THE GROWTH PERFORMANCE AND SURVIVAL OF ATLANTIC SALMON (Salmo salar)</td>
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<td>GAMPERL, A. K.: USING DATA STORAGE TAGS TO STUDY THE PHYSIOLOGY AND BEHAVIOUR OF ATLANTIC SALMON (Salmo salar)</td>
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<tr>
<td>Landbased and RAS Aquaculture / Pisciculture en systèmes ouverts et fermés</td>
<td>ALBERTIN-PARÉ, M-O.: AQUACULTURE WASTE RETRIIVAL FROM BROOK TROUT (Salvelinus fontinalis) AND ARCTIC CHAR (Salvelinus alpinus) : MONITOR LEEK (Allium porrum, chinook variety) GROWTH IN AN RECIRCULATING DECOUPLED AQUAPONIC SYSTEM</td>
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<tr>
<td>Seaweeds and Algae/ Algues</td>
<td>TAMIGNEAUX, É.: PHENOLOGICAL STUDY OF THE REPRODUCTION OF Palmaria palmata (Palmariales, Rhodophyta)</td>
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<td>GENDRON-LEMIEUX, J.: DEVELOPPEMENT D’UN OUTIL PREDICTIF POUR EVITER LA COLONISATION DU BRYOZOAIRE ENVAHISSANT Membranipora membranacea SUR LES LAMINAIRES SUCRÉES (Saccharina latissima) DE CULTURE</td>
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<tr>
<td>Shellfish Aquaculture / Aquaculture des mollusques</td>
<td>LATOUR, J.: Controlling mass mortality events with probiotics during the blue mussels (Mytilus edulis) larvae rearing PROCESS: what role is played by the larval microbiota?</td>
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<td>MONTAGNAC, V.: BIOENERGETICS STUDY OF CULTIVATED AND WILD BIVALVES IN CONTEXT OF AQUACULTURE MANAGEMENT</td>
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<td>ASPIRAULT, A.: IMPACT OF VESSEL NOISE ON BEHAVIOR OF BIVALVE LARVAE AND OTHER ZOOPLANCTONIC SPECIES</td>
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<td>OSTERHELD, K.: TRIPLOID MUSSELS FOR A STRONGER ATTACHMENT</td>
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