



WEDNESDAY, October 15

PLENARY

Wednesday, October 15 09:30 - 10:45 Chamber Hall

9:30 Mikel Gallo

ADDING SOCIETAL VALUE: FROM AQUACULTURE TO GASTRONOMY

EU SESSION:

LESSON LEARNT FROM MAJOR FP7 RELATED PROJECTS ON ENVIRONMENTAL/ECOLOGICAL SUSTAINABILITY

Wednesday, October 15 10:45 - 13:05 Room 11

Chairs: Marta Iglesias, Jacques Fuchs

Rationale: Aquaculture could affect the environment in multiple ways, depending on the type and sensitivity of the ecosystem, by modifying or degrading habitats, enriching them with nutrients, polluting them by chemicals, disrupting trophic systems, interacting with fisheries, effects on wild populations etc... At the same time, natural (climate change, storms etc...) or anthropogenic (pollution, harmful algal blooms (HABs)...) hazards can jeopardise aquaculture development.

Research and innovation to support an ecosystem-based approach to aquaculture (EAA) is a critical priority for the sustainable and economically viable development of aquaculture activities.

The EU session will focus on lessons learnt from EU-FP7 funded projects on Ecosystem approach for aquaculture (EAA) with a special attention given to the interactions between aquaculture and the environment and on innovative solutions to anticipate and mitigate effects. Opportunities offered in the new Horizon 2020 programme to support aquaculture research and innovation will also be presented.

10:45 Jacques Fuchs DG RTD, Germán Valcárcel REA, EC

OPENING OF THE SESSION. FP7 SUPPORT TO AQUACULTURE RESEARCH

- 11:05 Terje Svåsand**
ESCAPEES IN AQUACULTURE – AQUATRACE
- 11:25 Björn Suckow, Marinella Farré**
BIOSENSORS FOR MONITORING MARINE TOXINS – ENVIGUARD/SEA-ON-A CHIP
- 11:45 Patrick Smith**
PREVENTION FISH DISEASE – TARGET FISH
- 12:05 Aad Smaal, Mariella Eripret, Bruno Guillaumie, Alistair Lane**
EUROSHELL, BRIDGING THE GAP BETWEEN SCIENCE AND INDUSTRY TO SUPPORT THE EUROPEAN MARINE MOLLUSC PRODUCTION SECTOR
- 12:25 Andries Kamstra**
INNOVATIVE SOLUTION TO IMPROVE WATER TREATMENT DEVICES – FEED & TREAT
- 12:45 Carl Ivar Holmen**
INNOVATIVE INTEGRATED SOLUTION TO ELIMINATE FISH ESCAPES
AQUAFARMCONTROL
- 13:05 Jacques Fuchs, DG RTD, EC**
OPPORTUNITIES FOR AQUACULTURE RESEARCH IN HORIZON 2020

NUTRITION: ARRAINA

Wednesday, October 15 10:45 - 17:50 Chamber Hall

Chair: Sachi Kaushik



- 10:45 Sadasivam Kaushik**
ADVANCED RESEARCH INITIATIVES FOR NUTRITION AND AQUACULTURE (ARRAINA):
ISSUES AND ACHIEVEMENTS
- 11:05 Gro-Ingunn Hemre, N. H. Sissener, E. J. Lock, J. Silva, J. Johansen, M. Espe, A. C. Hansen, R. Waagbø**
CHANGED MICRO-NUTRIENT RECOMMENDATIONS FOR ATLANTIC SALMON *Salmo salar*
WHEN FED DIETS BASED ON PLANT INGREDIENTS
- 11:25 Douglas R. Tocher, Greta Carmona-Antonanzas, John F. Taylor, Laura Martinez-Rubio, Herve Migaud, J. Gordon Bell**
INSIGHTS INTO THE MOLECULAR MECHANISM OF DIETARY PHOSPHOLIPID
REQUIREMENT OF ATLANTIC SALMON *Salmo salar* FRY
- 11:45 Ikram Belghit, S. Skiba-Cassy, I. Geurden, K. Dias, A. Surget, S. J. Kaushik, S. Panserat, I. Seilliez**
DIETARY METHIONINE AVAILABILITY AFFECTS MUSCLE PROTEOLYSIS (AUTOPHAGY)
IN RAINBOW TROUT *Oncorhynchus mykiss*

- 12:05 John F. Taylor**, Christian De Santis, Erik-Jan Lock, Bente E. Torstensen, Daniel Leeming, Alan E. Tinch, Herve Migaud, Douglas R. Tocher, J. Gordon Bell
INFLUENCE OF DIETARY MICRONUTRIENTS ON GROWTH AND DEVELOPMENT OF DIPLOID AND TRIPLOID ATLANTIC SALMON *Salmo salar* (PARR)
- 12:25 David Domínguez**, D. Montero, L. E. Robaina, K. Hamre, V. Karalazos, M. S. Izquierdo
DETERMINATION OF DIETARY MICRONUTRIENTS LEVELS IN GILTHEAD SEABREAM DIETS HIGH IN VEGETABLE MEALS AND OILS: EFFECTS ON BONE MORPHOLOGY
- 12:45 Viviana Lazzarotto**, Genevieve Corraze, David Mazurais, Sadasivam Kaushik, Françoise Medale
EFFECT OF DIETARY BROODSTOCK HISTORY AND FIRST FEEDING DIETS ON TRANSCRIPTOME OF RAINBOW TROUT *Oncorhynchus mykiss* ALEVINS
- 13:05 LUNCH**
- 14:30 Jaume Pérez Sánchez**, Laura Benedito-Palos, Gabriel F. Ballester-Lozano, Vasilis Karalazos, Álvaro Ortiz, Sadasivam Kaushik
FISH PERFORMANCE AND QUALITY OF GILTHEAD SEA BREAM *Sparus aurata* FED EXTREMELY LOW FISH MEAL AND FISH OILS DIETS WITH OR WITHOUT BUTYRATE SUPPLEMENTATION
- 14:50 Efthimia Cotou**, Eleni Fountoulaki, Fotini Kokou, Vasileios Karalazos
EFFECTS OF DIETARY INTERVENTIONS ON GLUTATHIONE CONTENT AND ACTIVITY OF GLUTATHIONE-RELATED ENZYMES IN EUROPEAN SEA BASS *Dicentrarchus labrax*
- 15:10 Silvia Torrecillas**, Daniel Mompel, Maria José Caballero, Daniel Montero, Lúdia Robaina, Vasileios Karalazos, Sadasivam Kaushik, Marisol Izquierdo
EFFECTS OF COMPLETE REPLACEMENT OF FISH MEAL AND FISH OIL BY VEGETABLE MEALS AND OIL ON HEALTH AND DISEASE RESISTANCE OF EUROPEAN SEA BASS *Dicentrarchus labrax*
- 15:30 Sofia Engrola**, Rita Colen, Filipa Rocha, Carmen Barrios, Paulo Rema, Luis E. C. Conceição, Cláudia Aragão, Jorge Dias
IN OVO DELIVERY OF NUTRIENTS USING A SONOPHORESIS PROTOCOL
- 15:50 Wafa Ghrab**, C. M. Hernández-Cruz, G. Terova, J. Dias, R. Saleh, K. Hamre, M. S. Izquierdo
DELIVERY VECTORS FOR MINERALS AT EARLY LIFE STAGES OF MARINE FISH
- 16:10 Stephane Panserat**, Inge Geurden, Genevieve Corraze, Tarra Cerezo, Elisabeth Plagnes-Juan, Laurence Larroquet, Vincent Veron, Anne Surget, David Mazurais, Jose Zambonino, Françoise Medale, Sandrine Skiba-Cassy
LOW DIETARY PROTEIN: CARBOHYDRATE RATIO ASSOCIATED WITH VEGETABLE OILS DURING FIRST-FEEDING AND THEIR CONSEQUENCES ON METABOLISM IN RAINBOW TROUT JUVENILE
- 16:30 Inge Geurden**, Stéphane Panserat, Mathilde Dupont-Nivet, Edwige Quillet, Aurélie Le Cam, Jérôme Montfort, Françoise Médale, Sachi Kaushik
TRANSCRIPTOMIC ANALYSIS REVEALS MOLECULAR MECHANISMS MEDIATING ENHANCED FEED ACCEPTANCE OF PLANT-BASED DIET IN RAINBOW TROUT FOLLOWING EARLY EXPOSURE AT FIRST FEEDING

- 16:50 Daniel Montero**, Hipolito Fernández-Palacios, Javier Roo, Vanessa Benítez-Dorta, María Jesús Zamorano, Vasilis Karalazos, Marisol Izquierdo
PARENTAL FEEDING WITH LINSEED OIL AND ALPHA-TOCOPHEROL AFFECTS GILT HEAD SEA BREAM *Sparus aurata* PERFORMANCE OF PROGENY DURING ON-GROWING
- 17:10 Filipa Rocha**, S. Engrola, H. Teixeira, I. Geurden, M. T. Dinis, S. Panserat, J. Dias
THE ROLE OF EARLY NUTRITIONAL STIMULI AS MODULATORS OF METABOLIC PATHWAYS IN SEABREAM POST-LARVAE: A NUTRITIONAL PROGRAMMING APPROACH

ADVANCES IN DISEASES AND WELFARE

Wednesday, October 15 10:45 - 17:50 Room 10

Chairs: Patrick Smith, Tore Kristiansen

- 10:45 Shay Ravid-Peretz**, Michal Ucko, Koby Tarrab, Angelo Colorni, Moshe Kotler
NERVOUS NECROSIS VIRUS (NNV): CHARACTERIZATION OF THE IMMUNE RESPONSE TO VACCINATION IN WHITE GROUPEL *Epinephelus aeneus*
- 11:05 Marsela Alvanopoulou**, Alexios Glaropoulos, Vassilis Papadakis, Maroudio Kentouri
ESTABLISHMENT OF DOMINANCE ON JUVENILE SEA BREAM *Sparus aurata* DUE TO FOOD SUPPLY
- 11:25 Nuria García-Bueno**, P. Decottignies, V. Turpin, J. Dumay, C. Paillard, A. Marín-Atucha, J. Fleurence
INHIBITION OF *Haliotis tuberculata* PATHOGEN *Vibrio harveyi* FROM EXTRACTS OF RED MACROALGAE *Grateloupia turuturu*
- 11:45 Philippe Sourd**, Vincent Fournier, Mikael Herault
EFFECT OF DIETARY SHRIMP PROTEIN HYDROLYSATE INCLUSION ON DISEASE RESISTANCE AND IMMUNE BIOMARKERS IN FARMED FISH
- 12:05 Mette Serine W. Breiland**, H. Mikalsen, L.-H. Johansen
SUSCEPTIBILITY OF LUMPFISH *Cyclopterus lumpus* TO *Vibrio ordalii* AND INFECTIOUS PANCREATIC NECROSIS VIRUS IPNV
- 12:25 Amalia Pérez Jiménez**, Carolina Castro, Sara Moutinho, Filipe Coutinho, Elisabete Matos, Tiago Aires, Aires Oliva-Teles, Helena Peres
ERYTHROCYTE OXIDATIVE STATUS OF *Dicentrarchus labrax* FED ON TRYPTOPHAN SUPPLEMENTED DIETS UNDER NON-STRESSFUL AND STRESSFUL CONDITIONS OF HYPOXIA CHALLENGE
- 12:45 Marco Cerqueira**, Sonia Rey, Brendan McAndrew, Simon MacKenzie
USING TEMPERATURE CHOICE IN A DYNAMIC ENVIRONMENT TO ASSESS ANIMAL PERSONALITY AND INFECTION SUSCEPTIBILITY IN NILE TILAPIA *Oreochromis niloticus*
- 13:05 LUNCH**
- 14:30 Athanasios Samaras**, Michail Pavlidis, Konstada Lika, Nikos Papandroulakis
PERFORMANCE OF EUROPEAN SEA BASS *Dicentrarchus labrax* REARED IN CAGES OF DIFFERENT VOLUMES

- 14:50 Hendrik Monsees**, Werner Kloas, Sven Wuertz
CHRONIC EXPOSURE TO HIGH NITRATE CONCENTRATIONS SIGNIFICANTLY REDUCES GROWTH AND AFFECTS THE HEALTH STATUS OF JUVENILE NILE TILAPIA *Oreochromis niloticus* IN RECIRCULATING AQUACULTURE SYSTEMS
- 15:10 Helena Seth-Smith**, Pantelis Katharios, Nancy Doulara, Alexander Fehr, Maja Rütten, Lisbeth Nufer, Ralph Schlapbach, Lloyd Vaughan
NOVEL EPITHELIOCYSTIS AGENTS IN *Sparus aurata* AND *Diplodus puntazzo* INVESTIGATED USING DETAILED MOLECULAR TOOLS
- 15:30 Deliane C. Costa**, Walisson S. Silva, Cristiano C. Mattioli, Rodrigo Takata, Nelmara I. S. Cordeiro, Fabíola O. Paes Leme, Ronald K. Luz
EFFECTS OF TANK COLOUR ON THE LEVELS OF CORTISOL IN *Lophiosilurus alexandri* JUVENILES
- 15:50 John Tinsley**, Mark Braceland, Ralph Bickerdike, Marian Mcloughlin, David Eckersall
THE USE OF A FUNCTIONAL FEED TO REDUCE MUSCLE DAMAGE AND IMPROVE RECOVERY FOR ATLANTIC SALMON *Salmo salar* WITH PANCREAS DISEASE
- 16:10 Isabelle Leguen**, Colson Violaine, Mure Aline, Peron Sandrine, Valotaire Claudiane, Le Cam Aurélie, Le Calvez Jean-Michel, Goardon Lionel, Labbé Laurent, Prunet Patrick
PHYSIOLOGICAL AND BEHAVIORAL ANALYSIS OF THE CHRONIC STRESS RESPONSE IN RAINBOW TROUT EXPOSED TO WATER QUALITY DETERIORATION
- 16:30 Hans van de Vis**, Remy Manuel, Jeroen Boerrigter, Myrdhin Cloosterman, Marnix Gorissen, Gert Flik, Ruud Van den Bos
EFFECTS OF DIURNAL RHYTHM ON STRESS AND SKIN LESIONS IN AFRICAN CATFISH *Catfish garipepinus*
- 16:50 R. Azeredo**, M. Machado, P. Díaz-Rosales, A. Afonso, C. Fierro-Castro, F. Reyes-Lopez, L. Tort, M. Gesto, M. Conde-Sieira, J. M. Míguez, J. L. Soengas, H. Peres, A. Oliva-Teles, B. Costas
METHIONINE AND TRYPTOPHAN DIFFERENTIALLY REGULATE THE EUROPEAN SEABASS *Dicentrarchus labrax* INFLAMMATORY RESPONSE
- 17:10 Asa Johannesen**, Regin Arge
LUMPFISH: SEA LOUSE PREVENTION WITH GOOD FISH WELFARE
- 17:30 Elena Wernicke von Siebenthal**, D. Morris
MAPPING OF SPDV (SALMONID PANCREAS DISEASE VIRUS) AS CAUSING AGENT OF PD (PANCREAS DISEASE) IN FARMED ATLANTIC SALMON *Salmo salar* IN SCOTLAND AND IRELAND

ADVANCES IN AQUACULTURE HATCHERY TECHNOLOGY

Wednesday, October 15 10:45 - 17:50 Room 6

Chair: Alicia Estévez

- 10:45 Ahmed Md. Salem**, A. M. Nour, S. S. Assem, T. M. Srour, H. S. El-Sayed
GREENWATER, MARINE *Bacillus subtilis* HS1 PROBIOTIC AND SYNBIOTIC ENRICHED ARTEMIA AND ROTIFERS IMPROVED EUROPEAN SEA BASS LARVAE LENGTH, WEIGHT GROWTH AND SURVIVAL IN ALEXANDRIA, EGYPT

- 11:05 Kadir Seyhan**, Nimet Selda Başçınar, Nadir Başçınar
GASTRIC EMPTYING IN THE FREE SWIMMING BROOK TROUT LARVAE
- 11:25 Kadir Seyhan**, Nimet Selda Başçınar, Nadir Başçınar
GASTRIC EMPTYING IN THE *Salvelinus fontinalis* YOLK-SAC LARVAE FED ON GRANULE COMMERCIAL FEED
- 11:45 Keshuai Li**, Yngvar Olsen
DHA ENRICHMENT IN PHOSPHOLIPIDS OF ROTIFERS AND THE STABILITY OF DHA DURING STARVATION
- 12:05 Carlos Guevara-Fletcher**, P. Alvarez, J. Sanchez, J. Iglesias
EFFECT OF TEMPERATURE ON THE DEVELOPMENT OF YOLK-SAC LARVAE OF EUROPEAN HAKE *Merluccius merluccius* L. UNDER CONTROLLED CONDITIONS
- 12:25 Henrik Jeuthe**, Eva Brännäs, Jan Nilsson
TEMPERATURE SENSITIVITY DURING EARLY EMBRYOGENESIS IN ARCTIC CHARR *Salvelinus alpinus*
- 13:05 LUNCH**
- 14:30 Wilson Pinto**, André Santos, Helena Teixeira, Sofia Engrola, Jorge Dias, Luís E. C. Conceição
CAN SENEGALESE SOLE *Solea senegalensis* POST-LARVAE GROW ON LOW DIETARY LIPID LEVELS?
- 14:50 Carlos Guevara-Fletcher**, P. Alvarez, J. Sanchez, J. Iglesias
EFFECT OF TEMPERATURE ON THE DEVELOPMENT AND MORTALITY OF EUROPEAN HAKE EGGS *Merluccius merluccius* L. UNDER CONTROLLED CONDITIONS
- 15:10 Stéphanie Céline Michl**, Bernd Ueberschär, Carsten Schulz
UTILISATION OF PLANT PROTEINS IN FIRST FEEDING AND INFLUENCE ON THE SUBSEQUENT GROWTH OF TROUT *Oncorhynchus mykiss*
- 15:30 Ingrid Lein**, Yoav Barr, Synnøve Helland, Helge Tveiten
REPRODUCTION CHALLENGES IN FARMING OF BALLAN WRASSE *Labrus bergylta*
- 15:50 Otto Boltzar**, Zsolt Csenki, Katalin Bakos, Ádám Staszny, Árpád Hegyi, Tamás Müller, Levente Várkonyi, László Horváth
COPEPODA PREDATION ON SOME FARMED FRESHWATER FISH LARVAE
- 16:10 Jan Ove Evjemo**, Nam Doan Xuan, Andreas Hagemann, Yngve Attramadal, Elin Kjørsvik, Gunvor Øie
FIRST FEEDING OF ATLANTIC BLUEFIN TUNA *Thunnus thynnus* AND EUROPEAN LOBSTER *Homarus gammarus* USING INTENSIVELY PRODUCED COPEPODS *Acartia tonsa*
- 16:30 Francisco Otero-Ferrer**, Davinia Negrín, María Jesús Zamorano, Marisol Izquierdo, Lucía Molina, Alireza Fazeli, William V. Holt
CAN PERICONCEPTION DIET AFFECT SEAHORSE MALE REPRODUCTIVE SUCCESS?

- 16:50 Andrew Davie**, Bridie Grant, Eric Leclercq, Antonios Chalaris, Nicolas Picci, Kenny Prat, Marcos Garcia, Herve Migaud
BROODSTOCK SPAWNING PERFORMANCE AND HATCHERY PROTOCOLS FOR BALLAN WRASSE *Labrus bergyllta*
- 17:10 Moritz Tielmann**, Carsten Schulz, Stefan Meyer
ASSESSMENT OF QUALITY PARAMETERS IN LARVAL PIKE PERCH *Sander lucioperca* FOR PERFORMANCE PREDICTION AND BREEDER SELECTION

SPECIES DIVERSIFICATION

Wednesday, October 15 10:45 - 17:50 Room 8

Chair: José Benito Peleteiro

- 10:45 Rodrigo Fortes**, Leandro Santos, Renan Paulino, Priscila Vieira
DAILY RHYTHMS OF LOCOMOTOR AND FEEDING ACTIVITY OF HYBRID CATFISH *Pseudoplatystoma reticulatum* x *Leiariios marmoratus*
- 11:05 Constantinos Mylonas**, Rocio Robles
ENHANCING THE EUROPEAN AQUACULTURE PRODUCTION BY REMOVING PRODUCTION BOTTLENECKS OF EMERGING SPECIES, PRODUCING NEW PRODUCTS AND ACCESSING NEW MARKETS (DIVERSIFY)
- 11:25 Vincent Lugert**, Jens Tetens, Georg Thaller, Carsten Schulz, Joachim Krieter
FINDING SUITABLE GROWTH MODELS FOR TURBOT *Scophthalmus maximus* IN AQUACULTURE
- 11:45 Synnøve Helland**, Espen Grøtan
EFFECTS OF TRANSFER FROM CONTINUOUS LIGHT TO DIFFERENT LIGHT REGIMES ON GROWTH, SURVIVAL, AND FIN AND SKIN HEALTH
- 12:05 Amparo Goncalves**, Maria Emília Cunha, Carolina Palma Santos, Andre Luis Veneziano, Florbela Soares, Laura Ribeiro, Pedro Pousão-Ferreira
UNLEASHING THE GREAT POTENTIAL OF GREY MULLET FOR AQUACULTURE PRODUCTION
- 12:25 D. Castejón**, G. Rotllant, L. Giménez, G. Torres, G. Guerao
ZOOTECNICAL ASPECTS OF LARVAL DEVELOPMENT OF THE SPIDER CRAB *Maja brachydactyla* AS AQUACULTURE SPECIES
- 12:45 Ragnheidur Thorarinsdottir**, Soffia K. Magnúsdóttir, Halldor P. Halldorsson, Asbjörn Drengstig, Ann-Lisbeth Agnalt
FARMING OF EUROPEAN LOBSTER *Homarus gammarus* USING NATURAL GEOTHERMAL SOURCES
- 13:05 LUNCH**
- 14:30 Margarida Saavedra**, Amparo Gonçalves, Ana Grade, Mónica Barbeiro, Pedro Pousão-Ferreira, Teresa Pereira
MUSCLE CELLULARITY IN MEAGRE OF DIFFERENT COMMERCIAL SIZES: DOES IT AFFECT FILLET TEXTURE?

- 14:50 Kristina Schlicht**, G. Thaller, C. Schulz, J. Tetens
EFFECTS OF SIZE GRADING AND SIZE RANK ON THE GROWTH OF TURBOT
Scophthalmus maximus
- 15:10 Sofia Cota Franco**, Nick Aldred, Antonio V. Sykes, Teresa Cruz, Anthony S. Clare
LARVAL RELEASE OF STALKED BARNACLES *Pollicipes pollicipes* IN CULTURE: DIET
RELEASE TIMES AND THE EFFECT OF CONDITIONING
- 15:30 Osman Kesbiç**, Ümit Acar, Fevziye Isil Meydani, Bihter Asena Yanar, Musa Bulut, Nejdet Gültepe, Murat Yigit
EVALUATION OF DIETARY PROTEIN AND LIPID REQUIREMENTS OF TWO-BANDED
SEABREAM *Diplodus vulgaris* JUVENILES CULTURED IN A RECIRCULATING
AQUACULTURE SYSTEM
- 15:50 Edurne Blanco**, P. Reglero, A. Folkvord, A. Ortega, F. de la Gándara, F. J. Viguri, Ø. Fiksen
THE EFFECT OF DIFFERENT SHORT PULSE FEEDING REGIMES ON GROWTH AND
SURVIVAL OF ATLANTIC BONITO LARVAE *Sarda sarda*
- 16:10 Jorge Dias**, Laura Ribeiro, Florbela Soares, Marisa Barata, Narcisa Bandarra,
Vera Rodrigues, Rita Colen, André Amoedo, João Moura, João Fernandes, Luís Narciso,
Manuela Cunha, Luís E. C. Conceição, Pedro Pousão-Ferreira
NUTRITIONAL BASIS OF MEAGRE *Argyrosomus regius*, A CANDIDATE SPECIES FOR
MASS PRODUCTION IN THE MEDITERRANEAN
- 16:30 Zoltán Bokor**, Márton Kozma, János Radóczy Jr., Daniel Zarski, Slawomir Krejszeff,
Béla Urbányi, Ádám Staszny
GROWTH OF TWO EUROPEAN PERCH *Perca fluviatilis* POPULATIONS FROM POLAND
AND HUNGARY
- 16:50 Selina Stead**, Marisol Beltran-Gutierrez, Godfrey Fabiani, Sebastian Ferse, Cliff Jones,
Camilla MacDonald, Georgi Robinson, Matt Slater
SUSTAINABLE SEA CUCUMBER AQUACULTURE DEVELOPMENT – WHAT’S THE
POTENTIAL FOR EUROPE?
- 17:10 Costas S. Tsigenopoulos**, Alexandros Tsakogiannis, T. Manousaki, Vaso Terzoglou,
Katerina Economaki, Irini Sigelaki, Nikos Papandroulakis, Constantinos C. Mylonas
RELATIVE FEMALE/MALE PARTICIPATION IN THE SPAWNING PERIOD AND
DIFFERENTIAL MORTALITY DURING REARING IN RED PORGY *Pagrus pagrus* AND
COMMON PANDORA *Pagellus erythrinus* INFERRED THROUGH MICROSATELLITE
PARENTAGE ASSIGNMENT
- 17:30 Neil Duncan**, Ignacio Carazo, Elvira Fatsini, Juvenal Napuchi, Zohar Ibarra, Ignacio Martin,
Olvido Chereguini
REPRODUCTIVE BEHAVIOUR OF THE SENEGALESE SOLE *Solea senegalensis*:
A REVIEW WITH INDICATIONS OF POSSIBLE BEHAVIOURAL SOLUTIONS TO THE G1
REPRODUCTIVE DYSFUNCTION

BIOLOGY OF AQUATIC SPECIES GAMETES (AQUAGAMETE)

Wednesday, October 15 10:45 - 17:50 Room D

Chair: Juan Asturiano



AQUAGAMETE

WEDNESDAY

- 10:45 Juan F. Asturiano**, M. J. Bayarri, Á. Horváth
AQUAGAMETE COST ACTION. RESUME OF THE FIRST GRANT PERIOD (MARCH 2013 – MAY 2014)
- 11:05 Joanna Nynca**, Georg J. Arnold, Thomas Fröhlich, Andrzej Ciereszko
PROTEOMIC IDENTIFICATION OF RAINBOW TROUT SPERM PROTEINS
- 11:25 Mariola Dietrich**, Georg J. Arnold, Kathrine Otte, Grzegorz J. Dietrich, Andrzej Ciereszko
PROTEOMIC ANALYSIS OF ALTERATION IN PROTEIN COMPOSITION OF CARP SEMEN AFTER CRYOPRESERVATION
- 11:45 David S. Peñaranda**, M. C. Vílchez, D. Pla, V. Gallego, L. Sanz, L. Pérez, J. F. Asturiano, J. J. Calvete, D. S. Peñaranda
IDENTIFICATION OF MAJOR PROTEINS FROM THE SEMINAL PLASMA OF HORMONE-INDUCED SEXUAL MATURE EUROPEAN EELS *Anguilla anguilla* – CORRELATION WITH SPERM QUALITY
- 12:05 Andrzej Ciereszko**, Joanna Nynca, Grzegorz J. Dietrich, Stefan Dobosz, Ewa Liszewska, Halina Karol, Tomasz Zalewski, Joanna Grudniewska
EFFICIENT METHOD FOR CRYOPRESERVATION OF BROWN TROUT AND BROOK TROUT SEMEN
- 12:25 M. C. Vílchez**, Juan F. Asturiano, M. Morini, D. S. Peñaranda, L. Pérez, A. Depincé, E. Kasa, C. Labbé, Á. Horváth
COMPARISON OF TWO VALIDATED METHODS FOR CRYOPRESERVING EUROPEAN EEL *A. anguilla* SPERM: STANDARDIZATION AS A TARGET
- 12:45 Gergely Bernath**, Z. Bokor, T. Kollár, E. Kása, L. Várkonyi, Á. Hegyi, B. Urbányi, Á. Horváth
THE COMPARISON OF TWO DIFFERENT METHODS IN THE CRYOPRESERVATION OF EURASIAN PERCH *Perca fluviatilis* SPERM
- 13:05 LUNCH**
- 14:30 Tímea Kollár**, Gergely Bernáth, Zsolt Csenki-Bakos, Róbert Kovács, Eszter Kása, Béla Urbányi, Ákos Horváth
DEVELOPMENT OF CRYOPRESERVATION OF ZEBRAFISH *Danio rerio* SPERM
- 14:50 Grzegorz J. Dietrich**, Joanna Nynca, Stefan Dobosz, Tomasz Zalewski, Ewa Liszewska, Andrzej Ciereszko
THE EFFECT OF SEMEN CRYOPRESERVATION WITH THE USE OF GLUCOSE-METHANOL EXTENDER ON SPERM MOTILITY PARAMETERS AND REPRODUCTIVE SUCCESS OF SEX-REVERSED FEMALE RAINBOW TROUT

- 15:10 Fabian Schaefer**, Julia Overton, Werner Kloas, Sven Wuertz
TOWARDS A SCORING SYSTEM FOR GAMETE QUALITY IN SANDER *Sander lucioperca*
- 15:30 Günes Yamaner**, Devrim Memis, Gökhan Tunçelli
THE EFFECT OF LHRH-a AND CARP PITUITARY HORMONES ON RUSSIAN STURGEON
Acipenser gueldenstaedtii SPERM CHARACTERISTIC
- 15:50 Jacky Cosson**, Galina Prokopchuk
PLASTICITY OF FLAGELLA SHAPE DURING FISH SPERM MOTILITY
- 16:10 Marina Demoy-Schneider**, Nelly Schmitt, Marc Suquet, Catherine Labbe, Myrina Boulais,
Galina Prokopchuk, Jacky Cosson
CONTROL OF SPERM MOTILITY IN TWO OYSTER SPECIES: THE PACIFIC OYSTER
Crassostrea gigas AND THE BLACK-LIP PEARL OYSTER *Pinctada margaritifera*
- 16:30 Zuzana Linhartova**, Marek Rodina, Hilal Guralp, Ievgeniia Gazo, Taiju Saito,
Martin Psenicka
DETAILED DOCUMENTATION OF EMBRYOGENESIS OF TENCH *Tinca tinca* ENRICHED BY
VISUALIZATION, MIGRATION, ISOLATION AND CRYOPRESERVATION OF EARLY STAGES
OF GERM CELLS
- 16:50 Martin Psenicka**, Taiju Saito, Zuzana Linhartova, Ievgeniia Gazo, Katsutoshi Arai
ISOLATION AND INTERSPECIFIC TRANSPLANTATION OF SPERMATOGONIA AND
OOGONIA IN STURGEONS
- 17:10 S. González Rojo**, C. Fernández Díez, M. Lombó, V. Robles, M. P. Herráez
NUCLEAR DISTRIBUTION OF GENOTOXIC DAMAGE IN RAINBOW TROUT *Oncorhynchus
mykiss* SPERMATOZOA

BEYOND MONOCULTURE (THE EU IDREEM PROJECT)

Wednesday, October 15 10:45 - 17:50 Room E1
Chairs: Thierry Chopin, Kenny Black



- 10:45 Adam D. Hughes**, Kenneth D. Black
INTRODUCTION TO THE IDREEM PROJECT
- 11:05 Daryl Gunning**, Adam Hughes, Alexis Loucaidis, Celine Rebours, Dafna Israel,
David Attwood, Demetris Kletou, Dror Angel, Johan Johansen, Lars Brunner,
Mariachiara Chiantore, Roberto Co, Tim Atack, Walter Speirs
IMPLEMENTATION OF IMTA SYSTEMS FOR DIFFERENT HABITATS IN EUROPE
- 11:25 Richard Corner**, David Attwood, Roberto Co, Johan Johansen, Dafna Israel, Cat Smith,
Alex Loucaides, Joao Ferreira
CULTURE PRACTICE VARIATIONS WITHIN EUROPEAN CULTURED FISH SPECIES AND
EFFECTS ON MODELLING

- 11:45 Dafna Israel**, Dror Angel, Ingrid Lupatsch, Guy Rubinstein
DIGESTIBILITY OF WASTE EFFLUENTS FROM SEA BREAM CULTURE IN THE OMNIVOROUS GREY MULLET *Mugil cephalus*
- 12:05 Angelica Mendoza Beltran**, Jeroen Guinée
LIFE CYCLE ASSESSMENT OF INTEGRATED MULTI-TROPHIC AQUACULTURE SYSTEMS
- 12:25 Shirra Freeman**, Tim O'Higgins, Philip Nemoy, Mia Elasar, Tavis Potts, Karen Alexander, Dror Angel
ECONOMIC POTENTIAL OF INTEGRATED MULTITROPHIC AQUACULTURE (IMTA): A REVIEW OF PRELIMINARY RESULTS FROM THE IDREEM PROJECT
- 12:45 Henrice Jansen**, Raymond Bannister, Vivian Husa, Peter Cranford, Aleksander Handå, Zengjie Jiang, Øyvind Strand
RELEASE AND DISPERSAL OF DISSOLVED AND PARTICULATE WASTES FROM SALMON AQUACULTURE AND ITS IMPLICATIONS FOR IMTA IN NORWAY
- 13:05 LUNCH**
- 14:30 Hugo Quental-Ferreira**, Florbela Soares, Domitília Matias, Sandra Joaquim, Laura Ribeiro, Pedro Pousão-Ferreira, Maria Emília Cunha
ASSESSMENT OF 3 YEARS OF IMTA PRACTICES IN EARTHEN PONDS IN PORTUGAL
- 14:50 M. Bergvik**, L. Stensås, S. Forbord, H. Jansen, K. I. Reitan, Ø. Strand, Y. Olsen, A. Handå
ASSIMILATION OF NUTRIENTS FROM SALMON AQUACULTURE IN GREAT SCALLOP *Pecten maximus* AND BLUE MUSSELS *Mytilus edulis*
- 15:10 Paula Canal-Vergés**, Ditte Tørring, Annette Bruhn, Jens Kjerulf Petersen
THE SEAWEED CHALLENGE
- 15:30 Thierry Chopin**, Shaojun Pang
INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA): AN AQUANOMIC APPROACH TO FARMING THE SEA WITH MANY VARIATIONS, INCLUDING FISH/INVERTEBRATE/SEAWEED DEVELOPING SYSTEMS IN THE WESTERN WORLD AND SEAWEED/INVERTEBRATE/FISH LARGER SCALE SYSTEMS IN ASIA
- 16:10 Shawn Robinson**, Terralynn Lander, Keng Pee Ang, Gregor Reid, Hannah Bradford, Andrew Cooper, Bruce MacDonald, Kurt Simmons, Joao Ferreira, Alhambra Cubillo, Thierry Chopin
THE RATIONALE FOR MOVING DOWN INTO THE WATER COLUMN AS THE NEXT DEVELOPMENT PHASE FOR INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA)
- 16:30 Duncan Knowler**, Gregor Reid, Hossein Ayouqi
BIOECONOMIC MODELING OF SUSTAINABLE AQUACULTURE: CONVENTIONAL SALMON MONOCULTURE VERSUS INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) IN CANADA
- 16:50 Fernanda Seles David**, Danilo Cintra Proença, Wagner Cotroni Valenti
PHOSPHORUS BALANCE IN MULTI-SPATIAL AND MULTI-TROPHIC SYSTEMS WITH NILE TILAPIA AND AMAZON RIVER PRAWN

- 17:10 A.M. Cubillo**, Joao G. Ferreira, Shawn M.C. Robinson, Christopher M. Pearce
ROLE OF DEPOSIT FEEDERS IN INTEGRATED MULTI-TROPHIC AQUACULTURE –
A MODEL ANALYSIS
- 17:30 K. A. Alexander**, Tavis Potts, S. Freeman, T. O'Higgins
UNDERSTANDING SOCIETAL PERSPECTIVES ON INTEGRATED MULTI-TROPHIC
AQUACULTURE – THE RESULTS OF AN INTERNATIONAL EUROPEAN SURVEY

LANDBASED AQUACULTURE TECHNOLOGIES

Wednesday, October 15 10:45 - 17:50 Room E2

Chair: Raul Piedrahita

- 10:45 Hansup Nam-Koong**, Jan P. Schroeder, Gert Petrick, Carsten Schulz
REMOVAL OF OFF-FLAVOUR COMPOUNDS FROM RECIRCULATING AQUACULTURE
SYSTEM WATER BY ULTRASONICALLY INDUCED CAVITATION
- 11:05 Edward Schram**, Tobias van Kooten, Ewout Blom, Johan W. Schrama, Albertinka J. Murk,
Johan A. J. Verreth
TOWARDS OPTIMAL OFF-FLAVOUR DEPURATION: EFFECTS OF WATER FLOW RATE,
TEMPERATURE AND FEEDING ON GEOSMIN EXCRETION BY EUROPEAN EEL, ATLANTIC
SALMON AND NILE TILAPIA
- 11:25 Eric Windhede**, Torsten Wik
DYNAMIC COMPUTER SIMULATION OF RECIRCULATING AQUA CULTURE SYSTEMS –
A CASE STUDY
- 11:45 Paul-Daniel Sindilariu**, Jens Ole Olesen
TAN REMOVAL RATE IN SALMON SMOLT RAS, MICROBIAL COMMUNITY
PERFORMANCE AND INFLUENCE OF COD
- 12:05 Andries Kamstra**, E. Blom, E. Schram, B. F. Terjesen
EFFECTS OF REACTOR SCALE, AMMONIUM CONCENTRATION AND SUPERFICIAL AIR
SPEED ON NITRIFICATION RATE IN MOVING BED BIOFILM REACTORS
- 12:25 Maddi Badiola**, Oihane Cabezas, Richard Curtin, Maruxa Garcia, Irene Gartzia,
Diego Mendiola
FEASIBILITY STUDIES OF ATLANTIC COD *Gadus morhua* LAND BASED ON-GROWING
PRODUCTION TO MARKETABLE SIZE: A CASE-STUDY FROM THE BASQUE COUNTRY
(NORTHERN SPAIN)
- 12:45 Henrik Grundvig**, P. Makridis, L. Ribeiro, P. Pousão-Ferreira, E. Mente, K. A. Kormas,
E. Nikouli, H. Quental-Ferreira, R. Luna Araújo, M. Gausen, N. Hovden, J. Colt,
A. Bergheim
DIFFUSED AERATION SYSTEM FOR LARGE AQUACULTURE ENCLOSURES; INCLUDING
EARTH PONDS, TANKS AND SEA CAGES
- 13:05 LUNCH**

- 14:30 In-Kwon Jang**, Su-Kyoung Kim
APPLICATION OF BIOFLOC TECHNOLOGY (BFT) TO PACIFIC WHITE SHRIMP *Litopenaeus vannamei* FARMING AND ITS EFFECTS ON SHRIMP PERFORMANCE AND IMMUNITY
- 14:50 Miroslav Blecha**, Tomáš Polícar, Jirí Křišťan
ADAPTATION OF THE INTENSIVELY CULTURED PIKEPERCH *Sander lucioperca* JUVENILES TO POND CULTURE DURING WINTER AND THEIR FOLLOWING ADAPTATION AND CULTURE UNDER RAS
- 15:10 Åsa M. Espmark**, Jelena Kolarevic, Torbjørn Åsgård, Finn V. Willumsen, Guttorm Lange, Jo A. Alfredsén, Morten Alver, Martin Føre, Jens Birkevold, Gunnar Senneset, Bendik F. Terjesen
COMPARING PERFORMANCE OF ATLANTIC SALMON IN SEA CAGES AND DIFFERENT TANK SIZES
- 15:30 Ingrid Bakke**, Kari J. K. Attramadal, Olav Vadstein, Yngvar Olsen, Thi My Hanh Truong
REARING WATER SIGNIFICANTLY AFFECTS THE MICROBIOTA ASSOCIATED WITH DEVELOPING COD LARVAE *Gadus morhua*
- 15:50 S. Nakhl Peyma**, H. Jafaryan, M. Harsig, J. Sahandi, S. Jafaryan
THE INOCULATING OF BENEFICIAL BACILLUS INTO THE BIOFILTER IN RECIRCULATION SYSTEM OF RAINBOW TROUT *Onchorhynchus mykiss* LARVAE FOR PROMOTING RESISTANCE IN CHALLENGE WITH STRESS
- 16:10 Jelena Kolarevic**, Trine Ytrestøyl, Harald Takle, Frode Mathisen, Bendik Fyhn Terjesen
PERFORMANCE AND WELFARE OF ATLANTIC SALMON POSTSMOLTS REARED AT DIFFERENT SALINITIES IN MEDIUM RESEARCH SCALE AND COMMERCIAL SCALE RECIRCULATING AQUACULTURE SYSTEMS (RAS)
- 16:30 Kim S. Ekmann**
FEED FOR RECIRCULATION AQUACULTURE SYSTEMS (RAS)
- 16:50 Aliaksandr Pautsina**, Petr Císar
3D MONITORING OF FISH BEHAVIOR: TECHNIQUES AND COMPARISON
- 17:10 Yoram Avnimelech**
BIOFLOC TECHNOLOGY: PROVEN AND POTENTIAL ADVANTAGES AND A CHALLENGE TOWARD FUTURE INTEGRATED AQUACULTURE
- 17:30 Luis Felaco**, Gercende Courtois De Viçose, Ricardo Haroun
A MULTITROPHIC BIOFILTRATION SYSTEM USING SYNERGIES BETWEEN THE SEA CUCUMBER *Holothuria sanctori* AND THE SEAWEED *Hydropuntia cornea*

SHELLFISH AQUACULTURE

Wednesday, October 15 10:45 - 17:50 Room R4

Chairs: Rene Robert, Dolores Furones

- 10:45 Daria Gallardi**, Sharon Kenny, Sebastien Donnet, Terry Mills, Christopher C. Parrish, Harry M. Murray
COMPARISON OF THE HEALTH AND CONDITION OF CULTURED MUSSELS *Mytilus edulis* FROM DEEP AND SHALLOW WATER SITES IN NEWFOUNDLAND

- 11:05 Peter Cranford**, Pedro Duarte, Shawn Robinson, Maria José Fernández-Reiriz, Uxio Labarta
SUSPENDED PARTICULATE MATTER DEPLETION AND FLOW MODIFICATION INSIDE MUSSEL *Mytilus galloprovincialis* CULTURE RAFTS IN THE RÍA DE BETANZOS, SPAIN
- 11:25 Katerin Azpeitia**, Marta Revilla, Luis Ferrer, Felix Amarita, Diego Mendiola
CONDITION AND BIOCHEMICAL PARAMETERS OF CULTURED MUSSELS IN SHALLOW AND DEEP WATER IN A PILOT-SCALE COMMERCIAL OFFSHORE MUSSEL FARM IN THE BAY OF BISCAY
- 11:45 Gabriela Silva-Plaza**, Rodrigo Ojeda, Katerin Azpeitia, Richard Miranda
ANNUAL LARVAL DYNAMIC OF *Mytilus chilensis* AND ENVIRONMENTAL FACTORS IN BAHIA ILQUE, SOUTH OF CHILE
- 12:05 Franck Lagarde**, Martin Ubertini, Serge Mortreux, Adeline Perignon, Axel Leurion, Parik Le Gall, Claude Chiantella, Beatrice Bec, Cecile Roques, Delphine Bonnet, Helene Cochet, Ismael Bernard, Erika Gervasoni, Gilles Miron, Annie Fiandrino, Stephane Pouvreau, Emmanuelle Roque d'Orbcastel
NEW KNOWLEDGE ABOUT DETERMINISM OF PACIFIC OYSTERS *Crassostrea gigas* LARVAL RECRUITMENT IN MEDITERRANEAN LAGOON
- 12:25 Johannes Pucher**, N. L. C. Ragg, D. Dietrich, H. F. Kaspar
EFFECT OF PERIODICAL CHANGES OF WATER QUALITY PARAMETERS ON BEHAVIOUR AND HEALTH OF SPAT FROM THE GREENSHELL™ MUSSEL *Perna canaliculus*
- 12:45 Dolors Furones**, Karl Andree, Noelia Carrasco, Ana Roque, Mar Gonzalez, Beatriz Lacuesta, Ignasi Gairin, Christopher Rodgers
HISTORIC OVERVIEW OF THE EVOLUTION AND IMPACT OF OsHV IN THE EBRO DELTA, SPAIN
- 13:05 LUNCH**
- 14:30 Martin Ubertini**, Annie Fiandrino, Ismaël Bernard, Yoann Thomas, Franck Dumas, Stéphane Pouvreau, Emmanuelle Roque d'Orbcastel, Franck Lagarde
OYSTER *C. gigas* RECRUITMENT IN MEDITERANEAN LAGOONS; NEW APPROACHES FOR STUDYING LARVAL CONNECTIVITY USING MARS3D MODELING TOOLS
- 14:50 Noèlia Carrasco**, Josu Pérez, Ignasi Gairín, Karl B. Andree, Ana Roque, Beatriz Lacuesta, Olga Bellot, Carlos Bori, Cristóbal Aguilera, M. Dolors Furones
LOCAL SPAT PRODUCTION AND MANAGEMENT STRATEGIES TO REDUCE OSTREID HERPESVIRUS MICROVAR (OSHV-1 μ var) IMPACT ON PACIFIC OYSTER *Crassostrea gigas* CULTURES IN THE EBRO DELTA BAYS, IN THE MEDITERRANEAN COAST OF SPAIN
- 15:10 Anthony Le Bris**, P. Rosa, I. Benyoucef, B. Cognie, P. Gernez, M. Robin, P. Launeau, L. Barillé
REMOTE SENSING OF WILD OYSTER REEFS *Crassostrea gigas* IN A SHELLFISH ECOSYSTEM
- 15:30 Carlos Saavedra**, D. Cordero, M. Delgado, B. Liu, J. Ruesink, J. B. Peña
THE ORIGIN AND GENETIC DIFFERENTIATION OF THE MANILA CLAM *Ruditapes philippinarum* CULTURED IN EUROPE

- 15:50 Stefania Chiesa**, L. Lucentini, R. Freitas, F. Nonnis Marzano, S. Breda, E. Figueira, L. Filonzi, M. Vaghi, N. Caill-Milly, R. J. H. Herbert, A. Soares, E. Argese
GENOTYPING OF MANILA CLAM *Venerupis philippinarum*: SUCCESSES AND PITFALLS
- 16:10 Camille Saurel**, Carsten Fomsgaard, Mia Gommesen, K. Thomas Jensen, Paula Canal-Vergés, Jens Kjerulf Petersen
MULTIFACTOR STRESS FOR LARGE COCKLE EMERGENCE IN THE LIMFJORD, DENMARK?
- 16:30 Sten Ivar Siikavuopio**, Philip James
EFFECTS OF TEMPERATURE ON FEED INTAKE, GROWTH AND OXYGEN CONSUMPTION IN RED KING CRAB *Paralithodes camtschaticus*
- 16:50 M. Eggermont**, A. Tamanji, E. Yumo, N. Nevejan, P. Bossier, P. Sorgeloos, B. Gomez-Gil, T. Defoirdt
ISOLATION OF BLUE MUSSEL *Mytilus edulis* PATHOGENIC VIBRIOS FROM WILD-CAUGHT ADULTS
- 17:10 Heather Moore**, A. Boyd, M. Service, R. A. Corner, J. G. Ferreira
INTERACTION BETWEEN NATURAL BENTHIC COMMUNITIES AND CULTIVATED SHELLFISH BLUE MUSSEL *Mytilus edulis*: EFFECTS ON PRIMARY PRODUCTION AND PHYTOPLANKTON BIOMASS WITH RESPECT TO TOP-DOWN CONTROL OF EUTROPHICATION

EAS-SG STUDENT WORKSHOP

Wednesday, October 15 14:30 - 17:50 Room 11

Chair: Rob van de Ven



- 14:30 Rob van de Ven**
INTRODUCTION TO THE EAS STUDENT GROUP
- 14:45 Ramon Fontanillas**
TIPS FOR STUDENTS FROM SKRETTING AQUACULTURE RESEARCH CENTER
- 15:10 BREAK & DISCUSSION**
- EAS-SG Travel Grant winners:**
- 15:30 Antonios Chalaris**
AQUACULTURE CHALLENGES AND OPPORTUNITIES IN SCOTLAND: A STUDENT'S PERSPECTIVE
- 15:50 Elena Wernicke**
CHALLENGES AND OPPORTUNITIES IN AQUACULTURE

THURSDAY, October 16

THURSDAY

PLENARY

Thursday, October 16 09:00 - 09:25 Chamber Hall

- 9:00 Michael T. Morrissey**
THE FUTURE OF FISH PROTEIN: BEYOND SUSTAINABILITY

PLENARY

Thursday, October 16 09:25 - 09:45 Chamber Hall

- 9:25 Carlos Luna**
R&D AND MARKETING IN FISH PRODUCTS: A SUCCESS CASE

BIOLOGY OF AQUATIC SPECIES GAMETES (AQUAGAMETE) - CONTINUED

Thursday, October 16 10:30 - 13:10 Room D

Chair: Juan Asturiano



AQUAGAMETE

- 10:30 Ibon Cancio**, Leticia Martínez-Miguel, Iratxe Rojo-Bartolomé, M^a Carmen Vilchez, Juan F. Asturiano, Luz Pérez
MOLECULAR MARKERS OF OOCYTE DIFFERENTIATION AND MATURATION IN EUROPEAN EEL *Anguilla anguilla* DURING ARTIFICIALLY INDUCED OOGENESIS
- 10:50 Beata Cejko**, Beata Sarosiek, Sławomir Krejszef, Sylwia Judycka, Mirosław Szczepkowski, Bożena Szczepkowska, Radosław Kowalski
NEW METHOD OF NORTHERN PIKE *Esox lucius* L. EGGS COLLECTION – EFFECT ON FERTILIZATION SUCCESS IN DIFFERENT ACTIVATION SOLUTION
- 11:10 Inmaculada Rasines**, Marcos Gómez, Ignacio Martín, Cristina Rodríguez, José Ramón Gutiérrez, Bruno Calvo, Evaristo Mañanos, Olvido Chereguini
REPRODUCTION OF CULTURED SENEGALESE SOLE *Solea senegalensis*: PROTOCOL FOR HORMONAL INDUCED OVULATION, STRIPPING OF EGGS AND ARTIFICIAL FERTILIZATION
- 11:30 Mohammad Abdul Momin Siddique**, Otomar Linhart
FERTILIZE ABILITY OF STERLET *Acipenser ruthenus* EGGS USING DIFFERENT QUANTITY OF SPERM DURING PRE-INCUBATION WITH HATCHERY WATER

- 11:50 Radoslaw Kowalski**, Beata Sarosiek, Beata Cejko, Katarzyna Dryl, Sylwia Judycka
AIR SPAWNING IN FISH REPRODUCTION – RECENT STATUS AND FUTURE PERSPECTIVES
- 12:10 Stefania Santangeli**, Oliana Carnevali, Gilda Cobellis, Giorgia Gioacchini, Francesca Maradonna
EXPOSURE TO ENVIRONMENTAL DOSES OF BPA INHIBITS ZEBRAFISH REPRODUCTION
- 12:30 Patrick Kestemont**, Sophie Depiereux, Florence Le Gac, Eric Depiereux, Yann Guiguen
COMBINING *IN VIVO* AND *IN SILICO* APPROACHES TO IDENTIFY PATHWAYS POTENTIALLY INVOLVED IN MALE-TO-FEMALE TRANSDIFFERENTIATION IN FISH AFTER EXPOSURE TO ETHYNYLESTRADIOL
- 12:50 Berta Levavi-Sivan**, Lian Hollander-Cohen, Michal Shpilman, Joseph Aizen
RECOMBINANT LUTEINIZING HORMONE SUCCEEDED TO INDUCE SPAWNING INDUCTION IN CARP

GOVERNANCE, POLICY AND STRATEGIC PLANNING

Thursday, October 16 10:30 - 13:10 Room E1

Chair: Javier Remiro

- 10:30 Johann Hofherr**, F. Natale, P. Trujillo
IS LACK OF SPACE A LIMITING FACTOR FOR THE DEVELOPMENT OF AQUACULTURE IN EU COASTAL AREAS?
- 10:50 Diego Mendiola**, Leire Arantzamendi, Koldo Arrese
SOCIOECONOMIC RESEARCH FOR THE DEVELOPMENT OF A SUSTAINABLE AQUACULTURE PLAN IN THE BASQUE COUNTRY
- 11:10 Michael Rust**
UNITED STATES NATIONAL STRATEGIC PLAN FOR FEDERAL AQUACULTURE RESEARCH
- 11:30 Rodrigo Roubach**, Maria Fernanda Nince Ferreira, Adalmyr Borges, Renata Silveira, Fabio Expedito
FOR A SUSTAINABLE MARINE AQUACULTURE DEVELOPMENT IN BRAZIL
- 11:50**
Canceled
- 12:10 László Stündl**, István Szucs, Tamás Bardócz, Szilvia Mihálffy
THE HUNGARIAN MULTIANNUAL AQUACULTURE STRATEGIC PLAN AND ITS RELATION TO THE EUROPE 2020 STRATEGY

MARINE BIOTECHNOLOGY

Thursday, October 16 10:30 - 13:10 Room E2

Chairs: Ionan Marigomez, Naiara Rodriguez

- 10:30 Thiunuwan Priyathilaka Thanthrige**, Don Anushka Sandaruwan Elvitigala, Bong-Soo Lim, Hyung Bok Jeong, Jehee Lee, Bong-Soo Lim
NON-MAMMALIAN PATTERN RECOGNITION RECEPTOR FROM ROCK BREEM
Oplegnathus fasciatus: GENOMIC CHARACTERIZATION AND TRANSCRIPTIONAL PROFILE UPON BACTERIAL AND VIRAL INDUCTIONS
- 10:50 G. I. Godahewa**, H. M. V. Udayantha, Jehee Lee
Insilico AND GENOMIC CHARACTERIZATION OF TWO GENES FROM DISK ABALONE
Haliotis discus discus WITH ITS IMMUNE RESPONSE
- 11:10 Ana Gómez**, María José Mazón, Gregorio Molés, Ana Rocha, Iciar Muñoz, Silvia Zanuy
GONADOTROPIN SOMATIC GENE THERAPY RESULTS IN LONG LASTING CIRCULATION OF BIOLOGICALLY ACTIVE HORMONES IN AN AQUACULTURED MARINE FISH
- 11:30 Gennadiy G. Matishov**, E. N. Ponomareva
THE STATE AND DEVELOPMENT PROSPECTS OF AQUACULTURE BIOTECHNOLOGIES IN THE SOUTH OF RUSSIA
- 11:50 Stefano Peruzzi**, Ørjan Hagen, Cecilia C. Vargas, Inger-Britt Falk-Petersen, Malcolm Jobling
DOES PLOIDY INFLUENCE GUT MORPHOLOGY OF FARMED FISH? EVIDENCE FROM ATLANTIC COD *Gadus morhua* AND ATLANTIC SALMON *Salmo salar*
- 12:10 Andrea C. Alfaro**, Tim Young, Silas Villas-Bôas
NEW BIOCHEMICAL APPROACHES TO IMPROVE HATCHERY PRODUCTION

SHELLFISH AQUACULTURE - CONTINUED

Thursday, October 16 10:30 - 13:10 Room R4

Chairs: René Robert, Dolores Furones

- 10:30 René Robert**, Marine Holbach, Philippe Miner, Christian Mingant, Pierre Boudry, Réjean Tremblay
NEGATIVE EFFECTS OF REARING METHODS ON *Pecten maximus* LARVAL DEVELOPMENT
- 10:50 Alyssa Joyce**, Lindegarth Susanne
VISUALIZING LIPID UPTAKE IN LARVAE AND BROODSTOCK OF EUROPEAN FLAT OYSTERS *Ostrea edulis*: METHODS FOR ASSESSING SUPPLEMENTAL LIPID DELIVERY DURING KEY STAGES OF REPRODUCTION AND DEVELOPMENT
- 11:10 Ingrid Lupatsch**
STUDIES ON ENERGY AND PROTEIN REQUIREMENTS OF JUVENILE PACIFIC OYSTER *Crassostrea gigas* FED LIVE *Chaetoceros muelleri*

- 11:30 Amparo Gonçalves**, Ana Grade, Frederico M. Batista
 QUALITY OF PORTUGUESE OYSTERS *Crassostrea angulata* AND PACIFIC OYSTERS *Crassostrea gigas*: COMPARATIVE ANALYSIS
- 11:50 C.L.W. Jones**, K. Lloyd, M. Naylor
 THE EFFECT OF STOCKING DENSITY ON THE BEHAVIOUR OF FARMED SOUTH AFRICAN ABALONE *Haliotis midae*
- 12:10 Paola Venier**, Umberto Rosani, Stefania Domeneghetti, Alberto Pallavicini
 TARGET CAPTURE AND ENRICHMENT OF GENES TRANSCRIBED IN THE MEDITERRANEAN MUSSEL *Mytilus galloprovincialis*
- 12:30 Aad Smaal**
 BIODIVERSITY AND BIOMASS OF SUBLITORAL MUSSEL CULTURE PLOTS IN THE DUTCH WADDEN SEA IN COMPARISON WITH WILD BEDS
- 12:50 Peter De Schryver**, Peter Bossier, Olav Vadstein, Patrick Sorgeloos
 A MICROBIAL PERSPECTIVE ON ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) OUTBREAKS IN SHRIMP FARMING

NUTRITION: OUTPUTS OF THE EU ARRAINA PROJECT - CONTINUED

Thursday, October 16 10:30 - 13:10 Room R6

Chair: Sachi Kaushik



- 10:30 Manuel Yúfera**, Francisco J. Moyano, José Antonio Mata, Carmen Navarro.Guillén, Gonzalo Martínez-Rodríguez, André Santos, Wilson Pinto, Jorge Dias, Luís E. C. Conceição, Marisol Izquierdo
 DIGESTIVE FUNCTION IN GILTHEAD SEABREAM LARVAE FED ON DIFFERENT TYPES OF MICRODIET
- 10:50 J. A. Calduch-Giner**, J. Pérez-Sánchez
 THE GENE EXPRESSION GRADIENT THROUGH THE INTESTINE TRACT OF EUROPEAN SEA BASS *Dicentrarchus labrax*
- 11:10 Itziar Estensoro**, G. Ballester-Lozano, L. Benedito-Palos, V. Karalazos, J. J. Mallo, A. Sitjà-Bobadilla, S. Kaushik, J. Pérez-Sánchez
 HISTOPATHOLOGICAL AND TRANSCRIPTIONAL SCORING OF INTESTINAL TRAITS IN GILTHEAD SEA BREAM *Sparus aurata* FED LOW FISH MEAL AND FISH OIL DIETS WITH BUTYRATE SUPPLEMENTATION
- 11:30 Marc Berntssen**, Robin Ørnstrud, Mari Moren, Joana Silva, Johan Johansen, Kai Lie
 INTERACTION OF FEED CONTAMINANTS WITH DIETARY VITAMIN A SUPPLEMENTATION IN ATLANTIC SALMON *Salmo salar*

- 11:50 Jaime Náchter Mestre**, Roque Serrano, Eduardo Beltrán, Clara Boix, Lubertus Bijlsma, Richard Bade, Tania Portolés, María Ibáñez, Vasilis Karalazos, Joana Silva, Marc H. G. Berntssen, Jaume Pérez-Sánchez, Félix Hernández
ADVANCED ANALYTICAL APPROACHES TO INVESTIGATE THE PRESENCE OF UNDESIRABLES FROM FEED TO FISH. ATLANTIC SALMON AND GILTHEAD SEA BREAM AS A CASE STUDY
- 12:10 László Árdó**, Gyöngyvér Fazekas, Ágnes Adorján, Tibor Feledi, Zsuzsanna J. Sandor, András Rónyai, István Dankó, István Csengeri, Galina Jeney
EFFECTS OF FISH FEEDS SUPPLEMENTED WITH FISH OIL OR VEGETABLE OIL ON THE GROWTH PERFORMANCE, INNATE IMMUNE RESPONSE AND DISEASE RESISTANCE OF COMMON CARP *Cyprinus carpio* L. FINGERLINGS (PRELIMINARY RESULTS)
- 12:30**
Moved to Poster Board #119
- 12:50 Tomé S. Silva**, Jorge P. Dias, Johan W. Schrama, Luís E. C. Conceição
A MODELING TOOL TO COMPARE THE ENVIRONMENTAL IMPACT OF DIFFERENT FISH FEED FORMULATIONS

WELFARE: OUTPUTS OF THE EU COPE WELL PROJECT

Thursday, October 16 10:30 - 15:30 Room 10

Chairs: Patrick Smith, Tore Kristiansen



- 10:30 Sébastien Ferrari**, Maria Filippa Castanheira, Tor H. Evensen, Catarina Martins, Catarina Oliveira, Luis E. C. Conceição, Béatrice Chatain, Børge Damsgård, Marie-Laure Bégout
COMPARATIVE CHARACTERIZATION OF COPING STYLES IN THREE EUROPEAN FARMED FISH SPECIES
- 10:50 Sonia Rey Planellas**, Visila Moiche, Sebastian Boltaña, Simon Mackenzie
USING TRANSCRIPTOME ANALYSIS TO PROBE THE MECHANISM UNDERLYING INDIVIDUAL VARIATION IN COPING STYLES
- 11:10 Marco Vindas**, Per-Ove Thörnqvist, Erik Höglund, Marnix Gorissen, Gert Flik, Øyvind Øverli, Svante Winberg, Tom Ole Nilsen, Børge Damsgård, Lars Ebbesson
NEURAL CHARACTERISATION OF COPING STYLES IN FARMED ATLANTIC SALMON
- 11:30 Magda C. Teles**, Olinda Almeida, Sara D. Cardoso, João Lopes, Rui F. Oliveira
COGNITIVE APPRAISAL DRIVES NEURAL AND BEHAVIOURAL PLASTICITY IN ZEBRAFISH
- 11:50 Sandie Millot**, Marco Cerqueira, Maria Filipa Castanheira, Øyvind Øverli, Catarina Martins, Rui Oliveira
USE OF CONDITIONED PLACE PREFERENCE/AVOIDANCE TESTS TO ASSESS AFFECTIVE STATES IN FISH

- 12:10 Marco Cerqueira**, Sandie Millot, Maria Filipa Castanheira, Rui Oliveira, Catarina Martins
MODULATING THE WAY FISH APPRAISE THEIR WORLD: HOW PREDICTABLE EVENTS AFFECT BEHAVIOUR AND PHYSIOLOGICAL RESPONSES IN FISH
- 12:30 Athanasios Samaras**, Nikos Papandroulakis, Nikolaos Mitrizakis, Michalis Pavlidis, Erik Höglund, Tom Spanings, Carlos Espirito Santo, Gert Flik, Marnix Gorissen
ALLOSTATIC LOAD AND OVERLOAD IN SEA BASS *Dicentrarchus labrax*
- 12:50 Angelico Madaro**, R. E. Olsen, T. S. Kristiansen, G. Flik, M. Gorissen
STRESS RESPONSE OF ATLANTIC SALMON *Salmo salar* (PARR) EXPOSED 23 DAYS OF CHRONIC STRESS
- 13:10 LUNCH**
- 14:30 Jonatan Nilsson**, Angelico Madaro, Tore S. Kristiansen, Marnix Gorissen, Gert Flik, Rolf Erik Olsen
EFFECT OF PREDICTABILITY ON THE STRESS RESPONSE TO CHASING IN ATLANTIC SALMON *Salmo salar* PARR
- 14:50 Aleka Tsalafouta**, Nikos Papandroulakis, Michalis Pavlidis
EARLY LIFE STRESS AFFECTS PERFORMANCE AND CORTISOL STRESS RESPONSE IN EUROPEAN SEA BASS *Dicentrarchus labrax*
- 15:10 Hanne Johnsen**, H. Tveiten
STRESS DURING EMBRYOGENESIS OF ATLANTIC SALMON *Salmo salar* L. – DOES IT MATTER?

NUTRITION: ALTERNATIVE FEED INGREDIENTS

Thursday, October 16 10:30 - 17:30 Chamber Hall
Chairs: Marisol Izquierdo, Tiago Aires, Prof Satoh, Tiago Aires



- 10:30 Peter Bowyer**, Daniel Merrifield, Ana Rodiles, John Sweetman, Simon Davies
EFFECTS OF A SOLID-STATE FERMENTATION PRODUCT ON GROWTH PERFORMANCE, INTESTINAL HEALTH AND APPARENT NUTRIENT DIGESTIBILITY IN RAINBOW TROUT *Oncorhynchus mykiss* FED DIETS WITH HIGH LUPIN INCLUSION
- 10:50 Alexander Jaramillo Torres**, Mark Rawling, Ana Rodiles, Ralph Bickerdike, John Tinsley, Heidi Mikalsen, Elisabeth Aasum, Mathieu Castex, Daniel Merrifield
EFFECT OF *Pediococcus acidilactici* MA18/5M ON GUT HEALTH AND ASSOCIATED MICROBIOTA OF ATLANTIC SALMON DURING SMOLTIFICATION
- 11:10 Inês Guerreiro**, Aires Oliva-Teles, Paula Enes
POTENTIAL OF SHORT-CHAIN FRUCTOOLIGOSACCHARIDES (SCFOS) AND XYLOOLIGOSACCHARIDES (XOS) IN MODULATING GLUCOSE AND LIPID METABOLISM IN EUROPEAN SEA BASS *Dicentrarchus labrax*

- 11:30 Alin Casado**
EFFECT OF THE PREBIOTIC *Pediococcus acidilactici* (BACTOCELL™) ON THE INTESTINE INTEGRITY AND THE PRODUCTIVE PERFORMANCE OF RAINBOW TROUT *Oncorhynchus mykiss*
- 11:50 Vanessa I. Fuchs**, Jan Schmidt, Matthew J. Slater, Bela H. Buck, Dieter Steinhagen
EVALUATING DIETARY SUPPLEMENT COMPENSATION OF GROWTH PERFORMANCE LOSS DUE TO FISHMEAL SUBSTITUTION IN JUVENILE TURBOT *Scophthalmus maximus*
- 12:10 Sónia Batista**, Spyros Kollias, Arvind Sundaram, Jorge Fernandes, Luísa Valente, Rodrigo Ozório
INNATE IMMUNE PARAMETERS AND RELATED TRANSCRIPT LEVELS IN SOLE *Solea senegalensis* FED PLANT PROTEIN DIETS INTERCROPPED WITH THE USE OF PROBIOTICS
- 12:30 Christian Lückstädt**, J. Arreza, O. Jintasataporn, N. Areechon, K.-J. Kühlmann, C. Lückstädt
EFFECT OF DIETARY POTASSIUM DIFORMATE (KDF) ON GROWTH PERFORMANCE OF JUVENILE ASIAN SEABASS *Lates calcarifer* REARED UNDER FRESHWATER CONDITIONS
- 12:50 Jorge Dias**, Ana Ramalho, Rita Colen, Amparo Gonçalves, Narcisa Bandarra, Paulo Rema, Elisabete Matos, Tiago Aires, Tomé Silva, Jorge Dias
COMPARATIVE FORMULATION SCENARIOS FOR GILTHEAD SEABREAM *Sparus aurata*: PERFORMANCE, FLESH QUALITY, ENVIRONMENTAL LOADS AND COST EFFECTIVENESS
- 13:10 LUNCH**
- 14:30 Emmanuelle Apper**, Samuel Voller, Daniel Merrifield, Frédérique Respondek, Trond Storebakken
EFFECTS OF DIETARY INCLUSION OF VITAL OR HYDROLYSED WHEAT GLUTEN ON PERFORMANCE AND GUT STRUCTURE AND MICROBIOTA OF RAINBOW TROUT *Oncorhynchus mykiss*
- 14:50 Benjamin Costas**, Marina Machado, Rita Azeredo, Helena Peres, Nuno dos Santos, Aires Oliva-Teles
HIGH INCLUSION LEVELS OF SOYBEAN OR SUNFLOWER MEALS INDUCE AN EARLY INFLAMMATORY RESPONSE IN EUROPEAN SEABASS *Dicentrarchus labrax*
- 15:10 Silvia Martínez-Llorens**, Guillem Estruch, Mari Carmen Collado, David S. Peñaranda, Ana Tomás-Vidal, Gaspar Pérez-Martínez, Miguel Jover-Cerdá
VEGETABLE DIETS CHANGE THE INTESTINAL MICROBIOTA OF GILTHEAD SEA BREAM IMPACT ON PRODUCTIVITY
- 15:30 Helena Peres**, E. Kanashiro, P. Díaz-Rosales, C. Castro, A. Diógenes, A. Oliva-Teles
EFFECT OF TAURINE AND HYDROXYPROLINE SUPPLEMENTATION IN LOW FISHMEAL DIETS FOR EUROPEAN SEABASS *Dicentrarchus labrax*
- 15:50 Gabriela Gaxiola**, Jorge Gamboa, Gerard Cuzon, Korinthia López, Martha Guerrero
PHYTASES EFFECT ON JUVENILES *L. vannamei* FED ALL-PLANT DIETS

16:10
Canceled

- 16:30 Shuichi Satoh**, Tatsuo Tsuzaki, Kazunori Yoshida, Takuro Hotta, Masahiro Nakagawa, Masayuki Yamada, Tomohiko Koshiishi, Noriko Ishida
DEVELOPMENT OF NON FISH MEAL EXTRUDED PELLET FOR JAPANESE YELLOWTAIL *Seriola quinqueradiata*
- 16:50 Krno Bonacic**, A. Martínez, E. Gisbert, A. Estevez, S. Morais
EFFECT OF DIETARY LIPID LEVEL AND FATTY ACID COMPOSITION ON APPETITE REGULATING NEUROPEPTIDES OF JUVENILE SENEGALESE SOLE *Solea senegalensis*
- 17:10 Amal Biswas**, Hyojin Ahn, Takayuki Onishi, Yuta Takahashi, Shuta Uemura, Masashi Nakajima, Takahiro Nakao, Kenji Takii
GROWOUT FEED DEVELOPMENT FOR PACIFIC BLUEFIN TUNA *Thunnus orientalis*: UTILITY OF NORMAL FISH MEAL AND SQUID MEAL

**EAS/EATIP MEDITERRANEAN PERFORMANCE:
PERFORMANCE OF THE SEA BASS AND SEA BREAM SECTOR**

Thursday, October 16 10:30 - 17:30 Room 11
Chairs: Kjell Maroni (EAS), Courtney Hough (EATIP)



NOTE: Simultaneous translation into Spanish will be provided

9:00 REGISTRATION AND WELCOME COFFEE

Overview of the issues

10:00 Gustavo Larrazábal, Grupo Tinamenor
INTRODUCTION AND OVERVIEW OF THE KEY ISSUES

10:05 Bjorn Myrseth, Vitamar A.S
STRATEGY FOR THE PRODUCTION AND MARKETING OF SALMON AND A COMPARISON WITH THE SEA BASS AND SEA BREAM INDUSTRY

The challenges – prioritisation of the factors

Three expert panels will make very short overviews of the key issues and bottlenecks, leading to discussion with participants and prioritisation of the challenges that need to be addressed.

10:30 Panel 1. Potential impact of insufficient GENETICS/EPIGENETICS/BREEDING on the loss of performance, including brood stock selection and breeding programmes, brood stock conditioning, nutritional programming and larvae/juvenile origins and management.

Panelists: Antonio Coli, Selonda Carlos Mazorra, Tinamenor Marc Vandeputte, INRA Anna Sonesson, NOFIMA, Leonidas Papaharis, Nireus

12:00 Panel 2. Potential impact of FEEDS/NUTRITION/INGREDIENT SUBSTITUTION on the loss of performance, including the evolution of Economic FCR; nutritional requirements and performance parameters to assess ingredient substitution.

Panelists: Niels Alsted, Biomar, Ramon Fontanillas, Skretting Marco Gilmozzi, Cosasrl Alessandro Moretti, Inve Sachi Kaushik, INRA Torbjørn Åsgård, NOFIMA

14:00 LUNCH

15:00 Panel 3. Potential impact of FISH HEALTH/DISEASES AVAILABILITY OF VETERINARY TREATMENTS on the loss of performance, including industry priorities for the most important diseases to resolve, key parasite challenges, preventative veterinary measures (including fallowing) and availability of veterinary treatments.

Panelists: Patrick Smith, Tethys Francesc Padros, SDPP-UAB; Panos Christofiligiannis, AQUARK; Claudia Maira, Pharmaq; Øystein Patursson, Fiskaaling

How to improve together?

16:30 General discussion: PRODUCTION PERFORMANCE BENCHMARKING/FARM-SCALE RESEARCH/PRIORITIES. Moderated by Javier Ojeda, APROMAR

17:15 CLOSING COMMENTS BY THE CHAIRS**SALMON FARMING SUSTAINABILITY**

Thursday, October 16 10:30 - 17:30 Room 8

Chairs: Bjorn Myrseth, Lars Gansel

- 10:30 Øystein Patursson**, Knud Simonsen, Gunnvør á Norði
SUSTAINABLE FINFISH FARMING ON ISLANDS – THE EXAMPLE FROM THE FAROE ISLANDS
- 10:50 Bjørn-Steinar Sæther**, Ingebrigt Uglem, Ørjan Karlsen, Pablo Sanchez-Jerez, Karl Ø. Gjelland, Pablo Arechavala-Lopez
SUSTAINABLE COEXISTENCE BETWEEN SALMON CULTURE AND COASTAL FISHERIES
- 11:10 Joao G. Ferreira**, Richard A. Corner, Johan Johansen, Alhambra M. Cubillo
ENVIRONMENTAL EFFECTS OF ATLANTIC SALMON CAGE CULTURE – A SIMULATION BASED ON BIOENERGETIC MODELLING OF GROWTH, AND ANALYSIS OF MITIGATION IN INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA)
- 11:30 Aleksander Handå**, Henrice Jansen, Maria Bergvik, Silje Forbord, Ole Jacob Broch, John Ellis, Raymond Bannister, Vivian Husa, Julia Fossberg, Lene Stensås, Henny Førde, Jorunn Skjermo, Kjell Inge Reitan, Øyvind Strand, Yngvar Olsen
EXPLOITATION OF NUTRIENTS FROM SALMON AQUACULTURE: WHAT IS THE POTENTIAL FOR IMTA IN NORWAY?
- 11:50 Ola H. Diserud**, Peder Fiske, Kjetil Hindar, Sten Karlsson, Tor F. Næsje
INTERACTIONS BETWEEN SALMON AQUACULTURE AND WILD ATLANTIC SALMON POPULATIONS – ADDING MORE PIECES TO THE PUZZLE
- 12:10 Sara Calabrese**, T. O. Nilsen, S. Fivelstad, H. Takle, C. Hosfeld, L. O. E. Ebbesson, S. O. Stefansson, J. Kolarevic, B. F. Terjesen, S. O. Handeland
THE EFFECTS OF INCREASED CO₂ ON POSTSMOLT ATLANTIC SALMON *Salmo salar* GROWTH, PHYSIOLOGY AND STRESS RESPONSIVENESS
- 12:30 Åsa M. Espmark**, Jelena Kolarevic, Øyvind Aas-Hansen, Jonatan Nilsson, Lars Speilberg
PERFORMANCE IN SEA OF ATLANTIC SALMON EXPOSED TO CROWDING AND PUMPING DURING PRE-SMOLT PHASE

- 12:50 Dounia Hamoutene**, Lynn Lush, Isabel Costa, Kim Burt, Juan Perez-Casanova, Jennifer Caines
THERMAL AND pH TOLERANCE OF FARMED, WILD AND FIRST GENERATION FARMED-WILD HYBRID SALMON *Salmo salar*
- 13:10 LUNCH**
- 14:30 Guttorm Lange**, Kevin Frank, Martin Føre, Erik Høy
TELEFISH – USING TELEMETRIC SYSTEM IN LARGE SALMON CAGES FOR MONITORING FISH AND MOORINGS
- 14:50 Martin Føre**, Morten O. Alver, Jo Arve Alfredsen, Bendik F. Terjesen, Åsa Espmark, Gunnar Senneset, Finn Victor Willumsen, Guttorm Lange
A NUMERICAL MODEL OF HOW THE PHYSICAL SCALE OF AQUACULTURE PRODUCTION UNITS AFFECTS SALMON PERFORMANCE
- 15:10 Chris Noble**, Bjørn-Steinar Sæther
HOW CAN FEED MANAGEMENT CONTRIBUTE TO SUSTAINABILITY? CHALLENGES AND FUTURE PROSPECTS
- 15:30 Herve Migaud**, John Taylor, Marie Smedley, Mike Clarkson, Ben Clokie, Dan Leeming, Dougie Hunter
RESEARCH TOWARDS THE DEVELOPMENT OF NOVEL TRIPLOID ATLANTIC SALMON REARING PROTOCOLS
- 15:50 James Walton**, Patrick Campbell, Kjell Måsøval, Gordon Bell, Thompson Kim, Strachan Fiona, Douglas Tocher
IMPACT OF FEEDING STRATEGY ON TISSUE FATTY ACID COMPOSITIONS AND HEALTH PARAMETERS OF HARVEST-SIZE ATLANTIC SALMON *Salmo salar* L. FED LONG-TERM WITH FEEDS CONTAINING LOW LEVELS OF FISH OIL
- 16:10 Bengt Finstad**, Eva B. Thorstad, Pål A. Bjørn, Patrick G. Gargan, Christopher D. Todd, Elina Halttunen, Knut Wiik Vollset, Ingebrigt Uglem, Marius Berg, Steinar Kålås
EFFECTS OF SALMON LICE *Lepeophtheirus salmonis* ON SEA TROUT *Salmo trutta* – A LITERATURE REVIEW
- 16:30 Eric Leclercq**, Andrew Davie, Herve Migaud
CLEANER FISH AS A NEW PEST MANAGEMENT STRATEGY
- 16:50 Jorunn Skjermo**, Inga Marie Aasen, Silje Forbord, Duncan Akporiaye, Berta Matas Guell, Aleksander Handå, Bernd Wittgens
BIOREFINERY FOR INCREASED VALUE OF CULTIVATED SEAWEED

KNOWLEDGE MANAGEMENT, TRANSFER AND EXTENSION NETWORKS

Thursday, October 16 14:30 - 17:30 Room D

Chair: John Bostock

- 14:30 Marieke Reuver**, John Bostock
AQUA-TNET: ADDING VALUE TO EUROPEAN AQUACULTURE EDUCATION
- 14:50 John Bostock**
EUROPEAN AQUACULTURE – A LEARNING INDUSTRY?
- 15:10 Magdolna Müllerné Trenovszki**, István Pál, Árpád Bakonyi, László Bacsa, György Pilászy, Tamás Horváth, Gergely J. Simon, Katalin Rákóczi, Őrs Kovács, Árpád Hegyi, Tamás Müller, Ádám Staszny, Béla Urbányi
IS IT POSSIBLE THAT MULTI-PLAYER TECHNOLOGY AND KNOWLEDGE TRANSFER DEVELOPMENT WOULD BE EFFECTIVE? SYNERGY BETWEEN THE VARIOUS FIELDS
- 15:30 Marc Vandeputte**, Marieke Reuver
AQUAEXCEL: BUILDING A EUROPEAN NETWORK OF AQUACULTURE RESEARCH INFRASTRUCTURES
- 15:50 Petr Cisar**, Jan Urban, Stepan Papacek, Dalibor Stys
EXPERIMENTAL DATA AND METADATA MANAGEMENT SYSTEM, FROM EXPERIMENT TO SHARING
- 16:10 David Murphy**, Marieke Reuver, Cliona Ní Cheallacháin
AQUATT CASE STUDIES HIGHLIGHTING THE ADDED VALUE OF EFFECTIVE KNOWLEDGE TRANSFER IN EUROPEAN AQUACULTURE RESEARCH
- 16:30**
Canceled
- 16:50 Stanley G. Serfling**
GOOD AQUACULTURE PRACTICES TO REDUCE THE USE OF CHEMOTHERAPEUTIC AGENTS AND CONTROL PRODUCT QUALITY
- 17:10 Marleen Dehasque**, Benjamin Jennes, Philippe Mack, Courtney Hough
FINDIT – A CUTTING EDGE PLATFORM FOR DATA MANAGEMENT AND ANALYSIS TO ASSIST EUROPEAN FISH AQUACULTURE IN ITS DEVELOPMENT TOWARDS HIGHER PERFORMANCE AND COMPETITIVENESS
- 17:30 Tony S. Vaught**, Fred S. Conte
ASSESSMENT OF ESTABLISHED AQUACULTURE FACILITIES

OTHER CONTRIBUTIONS

Thursday, October 16 14:30 - 17:30 Room E1

Chair: Stefan Meyer

- 14:30 Vincent Fournier**, George Marco, Philippe Sourd
TURNING AQUACULTURE BY-PRODUCTS INTO VALUE ADDED MARINE INGREDIENTS FOR AQUAFEED

- 14:50 Bruno Justome**, Benoit Husson, Jacques Trichereau, Jean-Marc Cochet
TOWARDS AN INNOVATIVE PRODUCTION MANAGEMENT IN AQUACULTURE USING ORP
(OXIDATION / REDUCTION POTENTIAL)
- 15:10 Chris Blake**, Shane Hunter, Carlos Espinal
ADAPTING COMMERCIAL RECIRCULATING AQUACULTURE SYSTEM (RAS) TECHNOLOGY
TO DESIGN MORE EFFICIENT WET LABORATORIES FOR AQUACULTURE RESEARCH
- 15:30 Nadir Basçınar**, Fatma Delihasan Sonay, Halim Ibrahim Erbas
DETERMINATION OF STOCKING DENSITY OF WILD HORSE MACKEREL *Trachurus
mediterraneus* (STEINDACHNER, 1868) IN TANK REARED CONDITION IN THE BLACK SEA
- 15:50 Alaa El-Dahhar**, Samira Assem, Heba El-Sayed, Mona Mourad, Mohamad Salama
WEANING TRIALS USING DIFFERENT SOURCES OF PROTEIN, ENERGY LEVELS AND LIVE
FOOD FOR *Solea vulgaris* LARVAE

ORGANIC AQUACULTURE

Thursday, October 16 14:30 - 17:30 Room E2

Chair: Elena Mente

- 14:30 Johannes Pucher**, U. Focken
15N TRACER APPLICATION TO EVALUATE THE NITROGEN UPTAKE FROM NATURAL FOOD
WEBS INTO FISH IN TWO SUBTROPICAL SMALL-SCALE AQUACULTURE PONDS UNDER
DIFFERENT MANagements
- 14:50 Ingrid Olesen**, Pirjo Honkanen, Themis Altintzoglou
ORAQUA – A PROJECT FOR FURTHER DEVELOPMENT OF THE EU REGULATORY
FRAMEWORK AND GROWTH OF EUROPEAN ORGANIC AQUACULTURE
- 15:10 Yvonne Feucht**, Katrin Zander
DOES ORGANIC AQUACULTURE MEET THE EXPECTATIONS OF CONSUMERS?
- 15:30 Giovanna Marino**, Patrizia Di Marco, Tommaso Petochi, Maria Grazia Finoia, Paolo Tomassetti,
Salvatore Porrello, Giuliana Parisi, Gianluca Giorgi, Mario Lazzaro, Bianca Maria Poli
ORGANIC VS. CONVENTIONAL SEA BASS AND SEA BREAM CAGE FARMING
- 15:50 Giuseppe Lembo**
WHICH EXPERIENCE WE HAVE GAINED AFTER THREE YEARS OF APPLICATION OF THE
EUROPEAN REGULATION ON THE ORGANIC AQUACULTURE?
- 16:10 M. T. Spedicato**, Pierluigi Carbonara, W. Zupa, G. Palmegiano, F. Gai, L. Gasco, G. Lembo
INFLUENCE OF DENSITY ON THE WELFARE OF RAINBOW TROUT *Oncorhynchus mykiss*
IN ORGANIC AQUACULTURE
- 16:30 Carlos A. P. Andrade**, Bernardo Sumares, Carlos Batista
BOTTLENECKS AND ACCOMPLISHMENTS IN MARINE FISH HATCHERY CONVERSION
TO ORGANIC PRODUCTION ACCORDING REG (CE) N° 834/2007: THE CENTRO DE
MARICULTURA DA CALHETA (MADEIRA ISLAND) CASE STUDY

GENOMIC RESEARCH AND APPLICATIONS

Thursday, October 16 14:30 - 17:30 Room R4

Chair: Patrick Prunet

THURSDAY

- 14:30 Andrew Davie**, Bridie Grant, Michael Bekaert, John Taggart, Herve Migaud
DEVELOPMENT AND VALIDATION OF GENOMIC TOOLS TO SUPPORT CAPTIVE REARING OF BALLAN WRASSE *Labrus bergylta*
- 14:50 Diego Robledo**, Carlos Fernández, Miguel Hermida, Andrés Sciara, Pablo Riera, Paulino Martínez, Carmen Bouza
RNASEQ IDENTIFICATION OF SNP MARKERS FOR GROWTH-RELATED GENES IN TURBOT *Scophthalmus maximus* L.
- 15:10 Jesús Fernández**, Miguel A. Toro, Anna Sonesson, Beatriz Villanueva
USE OF GENOME-WIDE INFORMATION IN THE CREATION OF BASE POPULATIONS FOR AQUACULTURE BREEDING PROGRAMS
- 15:30 Münevver Oral**, Julie Colléter, Michaël Bekaert, John B. Taggart, Christos Palaiokostas, Brendan J. McAndrew, Marc Vandeputte, Béatrice Chatain, David J. Penman
A SNP MAP OF THE EUROPEAN SEA BASS GENOME BASED ON A MEIOTIC GYNOGENETIC FAMILY
- 15:50 Girish Kumar**, Klaus Kohlamann, David Gela, Martin Kocour
PHYLOGROUP ORIGIN OF TENCH *Tinca tinca* L. HAS NO NEGATIVE EFFECTS ON THE MAIN PERFORMANCE PARAMETERS
- 16:10 Lukasz Napora-Rutkowski**, Ilgiz Irnazarow, Teresa Ostaszewska, Andrzej Pilarczyk
GENETIC DIVERSITY OF COMMON CARP *Cyprinus carpio* HATCHERY STRAINS BRED IN POLAND, REVEALED BY A GENETIC MARKERS: MICROSATELLITE DNA, AFLP, POLYMORPHISM OF MITOCHONDRIAL CONTROL REGION (D-LOOP) SEQUENCE
- 16:30 Ágnes Ősz**, Balázs Kovács, Dóra Kánainé Sipos, György Hoitsy, Aleš Snoj, Klavdija Bogataj, Gergely Bernáth, Zita Herzinyák, Dániel Kaczkó, Béla Urbányi, Ákos Horváth
GENETIC STRUCTURE STUDY OF THE HUNGARIAN BROWN TROUT POPULATIONS USING PCR-RFLP AND MICROSATELLITE MARKERS
- 16:50 Anastasia Bestin**, Mathilde Dupont-Nivet, Françoise Médale, Edwige Quillet, Marc Vandeputte, Sophie Cariou, Alexandre Desgrange, Stanislas Laureau, Rémi Ricoux, Catherine Beutin, Pierrick Haffray
COMPARATIVE ADDITIVE GENETIC BASIS OF HIGH FEED SUBSTITUTION BY PLANT INGREDIENTS IN FOUR MAJOR FISH SPECIES FARMED IN TEMPERATE AND SOUTHERN EUROPE
- 17:10 A. Santafé-Muñoz**, A. Pita, P. Presa, J. Iglesias, M. Pérez
PARENTAGE ANALYSIS OF HATCHERY STOCKS FROM THE EUROPEAN HAKE *Merluccius merluccius*

NUTRITION: REQUIREMENTS

Thursday, October 16 14:30 - 17:30 Room R6

Chairs: Jaume Perez Sanchez, Vasilis Karalazos



THURSDAY

- 14:30 Weiwei Dai**, S. Panserat, S. J. Kaushik, F. Terrier, E. Plagnes-Juan, I. Seilliez, S. Skiba-Cassy
LIPOGENESIS IS MAINLY REGULATED BY PROTEIN THROUGH A TORC1 DEPENDENT MANNER IN RAINBOW TROUT LIVER AND PRIMARY CELL CULTURE OF HEPATOCYTES
- 14:50 Vasileios Karalazos**, Aristidis Tsopelakos, Erato Zogopoulou, Ioannis Karacostas, George Rigos, Helen Miliou
THE EFFECT OF DIETARY SATURATED / MONO-UNSATURATED FATTY ACIDS RATIO AT DIFFERENT EPA AND DHA LEVELS ON EUROPEAN SEA BASS *Dicentrarchus labrax* JUVENILES
- 15:10 Fernando Rivero**, M. J. Caballero, S. Torrecillas, M. S. Izquierdo, D. Montero
EFFECTS OF DIETARY ARACHIDONIC ACID (20:4n-6) ON GROWTH, FATTY ACID COMPOSITION AND IMMUNE RESPONSE OF EUROPEAN SEABASS *Dicentrarchus labrax* JUVENILES
- 15:30 Diana B. Reis**, Nieves G. Acosta, Eduardo Almansa, Douglas R. Tocher, José P. Andrade, António V. Sykes, Covadonga Rodríguez
COMPARISON OF "IN VIVO" UNSATURATED FATTY ACID METABOLISM IN *Octopus vulgaris* AND *Sepia officinalis* HATCHLINGS
- 15:50 Synne Marte Andersen**, Elisabeth Holen, Richard Taylor, Anders Aksnes, Ivar Rønnestad, Jens-Erik Zerrahn, Marit Espe
DIETARY ARGININE SUPPLEMENTATION IN ATLANTIC SALMON *Salmo salar* – POSSIBLE METABOLIC BENEFITS
- 16:10 Cláudia Figueiredo-Silva**, Bjarne Hatlen, André Bogevik, Ståle Helland, Barbara Grisdale-Helland, Cláudia Figueiredo-Silva
DIETARY PROTEIN LEVEL CAN BE REDUCED WITHOUT AFFECTING AMINO ACID UTILIZATION EFFICIENCY FOR GROWTH OF ATLANTIC SALMON POST-SMOLTS
- 16:30 Genciana Terova**, Karolina Kwasek, Bong-Joo Lee, Marco Saroglia, Konrad Dabrowski
DIETARY METHIONINE IN SALMONID FISH FEED ALTERS THE EXPRESSION OF GENES INVOLVED IN METHIONINE METABOLISM
- 16:50 Cláudia Figueiredo-Silva**, Heike Folkers, Carsten Schulz, Andreas Lemme
ATLANTIC SALMON RESPOND EQUALLY WELL TO BOTH DL-METHIONINE AND L-METHIONINE SUPPLEMENTATION
- 17:10 Ashraf Suloma**, Osama El-Husseiny, Loay Mezpin, Rania Mabroke
DIETARY L-ARGININE SUPPLEMENTATION INCREASES BODY WEIGHT, DIHOMO-GAMMA-LINOLENIC AND LIPID-RELATED GENES EXPRESSION IN COMMON CARP FED WITH HIGH-LIPID DIET

- 17:30 Sinem Zeytin**, Robert Tillner, Carsten Schulz, Bernd Ueberschär
EVALUATION OF DIURNAL PATTERN OF TRYPTIC ENZYME ACTIVITY AT EARLY STAGE
GILTHEAD SEA BREAM *Sparus aurata* LARVAE

ADVANCES IN DISEASES AND WELFARE - CONTINUED

Thursday, October 16 15:30 - 17:30 Room 10

Chairs: Patrick Smith, Tore Kristiansen

- 15:30 Themis Tsarouchas**, S. Fokos, N. Papandroulakis, M. Pavlidis, C. R. Dermon
BRAIN RESPONSES TO ACUTE STRESS ARE MODIFIED BY EARLY LIFE STRESS
EXPERIENCE: ADRENOCEPTORS AND CELL PROLIFERATION STUDY IN EUROPEAN SEA
BASS *Dicentrarchus labrax*
- 15:50 Edwige Quillet**, Nicolas Dechamp, Caroline Hervet, Francine Krieg,
Celine Chantry-Darmon, Mekki Boussaha, Aurelie Berard, Véronique Laurens,
Tatiana Rochat, Eric Duchaud, Pierre Boudinot, Jean-François Bernardet, Christian Michel
QTL ASSOCIATED TO RESISTANCE TO BACTERIAL COLD WATER DISEASE IN RAINBOW
TROUT
- 16:10 Gde Sasmita J. Pande**, Natrah F.M.I., Patrick Sorgeloos, Peter Bossier, Tom Defoirdt
THE THREE QUORUM SENSING SIGNALS OF *Vibrio campbellii* HAVE A DIFFERENT
IMPACT ON ITS VIRULENCE TOWARDS DIFFERENT CRUSTACEAN HOSTS
- 16:30 Qian Yang**, Peter Bossier, Tom Defoirdt
QUORUM SENSING IN *Vibrio harveyi* POSITIVELY REGULATES FLAGELLAR MOTILITY,
AN ESSENTIAL VIRULENCE FACTOR
- 16:50 Francisco Esteban Montero**, Jose Francisco Palacios-Abella, Javier Rodríguez-Llanos,
Ana Pérez del Olmo, Juan Antonio Raga
THREE BLOOD FLUKE SPECIES (TREMATODA, APOROCOTYLIDAE) INFECT THE
ATLANTIC BLUEFIN TUNAS IN THE MEDITERRANEAN

THURSDAY

FRIDAY, October 17

PLENARY

Friday, October 17 09:00 - 10:00 Chamber Hall

9:00 Anil Markandya

CLIMATE CHANGE, THE ENVIRONMENT AND SUSTAINABLE AQUACULTURE DEVELOPMENTS

ADVANCES IN DISEASES AND WELFARE - CONTINUED

Friday, October 17 10:30 - 13:10 Room 10

Chairs: Patrick Smith, Tore Kristiansen

- 10:30 Janaina S. Pedron**, Ricardo V. Rodrigues, Marcelo H. Okamoto, Marcelo B. Tesser, Luis A. Sampaio
TRANSPORT OF JUVENILE COBIA *Rachycentron canadum* AT DIFFERENT STOCKING DENSITIES
- 10:50 Magdalena Lenny Situmorang**, Kristof Dierckens, Frank Thomas Mlingi, Bart Van Delsen, Peter Bossier
DEVELOPMENT OF A BACTERIAL CHALLENGE TEST FOR GNOTOBIOTIC NILE TILAPIA *Oreochromis niloticus* LARVAE
- 11:10 Elisabeth Aasum**, Gunhild Johanson, Hanne Johnsen, Heidi Mikalsen, Lill-Heidi Johansen, Audny Johansen, Helene Mikkelsen, Marit Seppola, Trygve Sigholt
HEALTH EFFECTS OF FUNCTIONAL FEEDS IN ATLANTIC SALMON *Salmo salar* L. AT SEAWATER TRANSFER AND SUBSEQUENT MORTALITY OF INFECTIOUS PANCREAS NECROSIS VIRUS IPNV
- 11:30 Eduardo Almansa**, Daniel Osorio, Giovanna Ponte
A NETWORK FOR IMPROVEMENT OF CEPHALOPOD WELFARE AND HUSBANDRY IN RESEARCH, AQUACULTURE AND FISHERIES – COST ACTION FA1301, CEPHSINACTION
- 11:50 Thomas Torgersen**, Ole Folkedal, Frode Oppedal, Samantha Bui, Mette Remen, Kevin Glover, Jonatan Nilsson
DOMESTICATION AND ACUTE STRESS RESPONSIVENESS IN ATLANTIC SALMON
- 12:10 Jeroen Boerrigter**, Ruud Van den Bos, Hans Van de Vis, Tom Spanings, Gert Flik
EFFECTS OF DENSITY, PVC-TUBES AND FEEDING TIME ON GROWTH, STRESS AND AGGRESSION IN AFRICAN CATFISH *Clarias gariepinus*
- 12:30 Juliette Delabbio**
LED LIGHTING SYSTEMS: EXPANDING THE BENEFITS OF ARTIFICIAL LIGHTING BEYOND PHOTOPERIOD
- 12:50 Majid Mohammad Nejad Shamoushaki**, Ali-Reza Mallah, Omid-Reza Rostaghi, Saeed Rahimi
THE COMPARATIVE EVALUATION OF SOME BLOOD PLASMA ENZYMES IN RAINBOW TROUT *Oncorhynchus mykiss* (WALBAUM, 1792) AT DIFFERENT SIZES

AQUAEXCEL INDUSTRY WORKSHOP: RESEARCH INFRASTRUCTURES: ADDING VALUE TO EUROPEAN AQUACULTURE INDUSTRY

Friday, October 17 10:30 - 13:10 Room 11

Chair: Marieke Reuver; Marc Vandeputte



- 10:30 Marc Vandeputte**, AQUAEXCEL coordinator (INRA)
INTRODUCTION: RESEARCH INFRASTRUCTURES, REAL RESULTS, INDUSTRY RELEVANCE
- 10:40 Size matters, even for fish tanks!**
Åsa Maria Espmark (Nofima)
CAN THE INDUSTRY RELY ON SMALL SCALE RESEARCH?
- Andries Kamstra** (Imares)
DESIGN OF MOVING BED BIOFILM REACTORS: FROM LAB TO COMMERCIAL SCALE
- Martin Føre** (NTNU)
SIMULATING THE EFFECT OF UNIT SIZE AND FEED DELIVERY ON FISH GROWTH
- 11:10 Gunnar Senneset** (SINTEF)
E-INFRASTRUCTURES: ACCESS AQUACULTURE RESEARCH LABS FROM YOUR LIVING ROOM! HOW TO REMOTELY ACCESS TOP RESEARCH FACILITIES OPEN TO INDUSTRY
- 11:30 Ariadna Sitja Bobadilla** (CSIC)
INNOVATIVE BIOMARKERS FOR ENVIRONMENTAL AND NUTRITIONAL STRESSORS IN SEA BREAM
- 11:50 Juan Manuel Afonso López** (ULPGC)
NEW ADVANCES FOR THE AQUACULTURE INDUSTRY: ONTOLOGY, COMMON STANDARDS AND PROTOCOLS TO FACILITATE SCREENING PROCESSES AND COMPARISONS OF FISH BATCHES WITHIN AND BETWEEN COMPANIES
- 12:05 Edwige Quillet** (INRA)
ISOGENIC FISH LINES - THE LAB MOUSE FOR AQUACULTURE
- 12:20 John Bostock** (Stirling University) + several presenters, tbc
COLLABORATIVE TRANSNATIONAL ACCESS FOR FASTER PROGRESS ON INDUSTRY PRIORITY RESEARCH: PRESENTING RESEARCH OUTCOMES THAT ADDRESS THE NEEDS OF THE AQUACULTURE INDUSTRY
- PANEL DISCUSSION WITH INDUSTRY REPRESENTATIVES AFTERWARDS
- 12:50 Marc Vandeputte**, AQUAEXCEL coordinator (INRA)
CONCLUSION

FRIDAY

BY-PRODUCTS MANAGEMENT AND SUSTAINABILITY ASSESSMENT

Friday, October 17 10:30 - 13:10 Room D

Chairs: Jogier Toppe, Erling Larsen

- 10:30 Rasa Slizyte**, Elena Shumilina, Revilija Mozuraityte, Alexander Dikiy
QUALITY CHANGES IN SALMON REST RAW MATERIALS FOLLOWED BY SENSITIVE NMR TECHNIQUE
- 10:50 Sofie Van Den Hende**, Veerle Beelen, Gaëlle Bore, Nico Boon, Han Vervaeren
ADDING VALUE TO PIKEPERCH CULTURE WASTEWATER VIA MICROALGAL BACTERIAL FLOCS: FROM CONCEPT TO OUTDOOR POND
- 11:10 Jens Kjerulf Petersen**, Carsten Fomsgaard, Camille Saurel, Isla Fitridge, Paula Canal-Vergés
STARFISH BY-PRODUCTS MANAGEMENT FOR MUSSEL INDUSTRY IN DENMARK
- 11:30 Erik Skontorp Hognes**, Friederike Ziegler, Veronica Sund, Katarina Nilsson, Trine Ytrestøyl
ENVIRONMENTAL ASSESSMENT WITH LCA IN THE DEVELOPMENT OF MORE SUSTAINABLE SALMON AQUACULTURE PRODUCTION
- 11:50 Begoña Pérez-Villareal**, Saioa Ramos, Gudrun Olafsdottir, Erling P. Larsen
EVALUATION OF THE ENVIRONMENTAL SUSTAINABILITY OF AQUACULTURE PRODUCTS USING THE “SENSE-TOOL”
- 12:10 Pascal Fontaine**, Hélène Rey-Valette, Synthia Mathé, Aurélie Wilfart, Marc Legendre, Jacques Slembrouck, Eduardo Chia, Gérard Masson, Myriam Callier, Jean Paul Blancheton, Aurélien Tocqueville, Domenico Caruso, Joël Aubin
CO-DESIGN ECOLOGICALLY INTENSIVE FISH FARMING SYSTEMS USING AGROECOLOGY AND ECOSYSTEM SERVICES
- 12:30 Alexandre Augusto Oliveira Santos**, Joël Aubin, Michael S. Corson, Wagner Cotroni Valenti, Antonio Fernando Monteiro Camargo
ENVIRONMENTAL PERFORMANCE OF AMAZON RIVER PRAWN AND NILE TILAPIA POLYCULTURE IN BRAZIL
- 12:50 Abdullah-Al Mamun**, David C. Little, J. Gordon Bell, Francis J. Murray, Roslina Kamaruddin
FAMILY DRIVEN SMALL SCALE POLYCULTURE OF SHRIMP IN BANGLADESH: AN ISSUE OF SUSTAINABILITY AND LOCAL NUTRITIONAL SECURITY

AQUAPONICS

Friday, October 17 10:30 - 13:10 Room E1

Chair: Dieter Anseeuw

- 10:30 Siv Lene Gangenes-Skar**
WATER EFFICIENT FOOD PRODUCTION IN NORWAY – COLD WATER AQUAPONICS
- 10:50 Paul Rye Kledal**, Erik Gutzmann
AQUAPONICS AND THE PROSPECTS OF LARGE SCALE COMMERCIAL PRODUCTION

- 11:10 Ragnheidur Thorarinsdottir**, Ragnar Ingi Danner
IMPLEMENTING COMMERCIAL AQUAPONICS IN EUROPE – FIRST RESULTS FROM THE ECOINNOVATION PROJECT ECOPONICS
- 11:30 Gavin Burnell**, Daryl Gunning, Luke Harman, Mairead Kiely, Rory Nunan, Peter Jones
DESIGNING A MARINE AQUAPONICS (MARAPONICS) SYSTEM TO MODEL IMTA
- 11:50 Richard Shultz**, J. Derksen, N. Savidov
DEVELOPMENT OF A ZERO-DISCHARGE AQUAPONIC SYSTEM OPTIMIZED FOR GREENHOUSE PRODUCTION IN CANADA
- 12:10 Tom Beyers**
COST-BENEFIT ANALYSIS OF THE INTEGRATION OF A RECIRCULATING AQUACULTURE SYSTEM IN A HEATED TOMATO GREENHOUSE
- 12:30 Paul Rye Kledal**, Oliver Körner, Erik Gutzmann
MODELLING THE SYMBIOTIC EFFECTS IN AQUAPONICS
- 12:50 Benz Kotzen**
EUROPEAN AQUAPONICS AT A CROSSROADS: THE EVOLUTION AND INAUGURATION OF COST ACTION FA1305, THE EU AQUAPONICS HUB

PROGRESSES IN EEL AQUACULTURE RESEARCH

Friday, October 17 10:30 - 13:10 Room E2

Chair: Jonna Tomkiewicz

10:30
Canceled

- 10:50 Ian Butts**, R. Baeza, L. Pérez, J. G. Støttrup, M. Krüger-Johnsen, C. Jacobsen, J. F. Asturiano, J. Tomkiewicz
FATTY ACIDS INFLUENCE MALE REPRODUCTIVE PERFORMANCE IN EUROPEAN EEL
- 11:10 Marina Morini**, D. S. Peñaranda, M. C. Vílchez, V. Gallego, R. Nourizadeh-Lillabadi, J. F. Asturiano, F.-A. Weltzien, L. Pérez
MOLECULAR CHARACTERIZATION AND EXPRESSION OF PROGESTIN RECEPTORS AND PLCZ1 IN EUROPEAN EEL THROUGH SPERMATOGENESIS
- 11:30 Tamás Müller**, László Horváth, Ottó Boltizár, Levente Várkonyi, Ákos Horváth, Miklós Mézes, Gergely Bernáth, Zsolt Csenki-Bakos, Béla Urbányi
POSSIBLE WAY FOR EXTRACTION OF SUBLETHAL POLLUTANTS FROM WILD FEMALE EUROPEAN EEL BROODSTOCK
- 11:50 Carmen Vilchez**, Ilaria Mazzeo, Rosa Baeza, David S. Peñaranda, Victor Gallego, Juan Francisco Asturiano, Luz Pérez
MODULATORY EFFECT OF TEMPERATURE ON OVULATION AND LARVAL DEVELOPMENT IN THE EUROPEAN EEL

- 12:10 Jonna Tomkiewicz**, Ian A. E. Butts, Sune R. Sørensen, Sebastian N. Politis, Peter Lauesen, Maria Krüger-Johnsen, Christian Graver
PRODUCTION AND SURVIVAL OF EUROPEAN EEL EMBRYOS AND LARVAE IN CULTURE
- 12:30 Elin Kjørsvik**, Per-Arvid Wold, Tora Bardal, Martin Davidsen, Filipa F. G. da Silva, Jonna Tomkiewicz, Sune Riis Sørensen
MUSCLE DEVELOPMENT IN EUROPEAN EEL *Anguilla anguilla* YOLKSAC LARVAE AND EFFECTS OF EGG INCUBATION TEMPERATURE

NUTRITION: ALTERNATIVE FEED INGREDIENTS - CONTINUED

Friday, October 17 10:30 - 16:30 Chamber Hall
Chairs: Marisol Izquierdo, Tiago Aires, Prof Satoh, Tiago Aires



- 10:30 Aleksandar Vidakovic**, Markus Langeland, Matilda Olstorpe, Jouni Vielma, Anders Kiessling, Torbjörn Lundh
MICROBIAL AND MUSSEL PROTEIN MEALS AS NOVEL INGREDIENTS IN FEED FOR FARMED ARCTIC CHARR *Salvelinus alpinus*
- 10:50 Kjell Måsøval**
POULTRY MEAL AS AN INGREDIENT IN FEEDS TO ATLANTIC SALMON *Salmo salar* AND RAINBOW TROUT *Oncorhynchus mykiss*
- 11:10 Manuel Sardinha**, Vera Rodrigues, Sofia Engrola, Jorge Dias
EFFECT OF INSECT MEAL ON THE GROWTH PERFORMANCE AND NUTRIENT DIGESTIBILITY OF JUVENILE SEABREAM
- 11:30 Thiago El Hadi Perez Fabregat**, Raquel Grande Pereira, Barbara Wosniak, Alessandra Berri, Marcos Luis Pessatti, Rodrigo Takata
GROWTH AND SURVIVAL OF SILVER CATFISH *Rhamdia quelen* FED DIETS WITH SARDINE WASTE PROTEIN HYDROLISATE
- 11:50 Mahmoud N. Haidar**, Mischa Petie, Leon T. N. Heinsbroek, Johan W. Schrama, Johan A. J. Verreth
THE ENERGETIC VALUE OF NON STARCH POLYSACCHARIDES IN NILE TILAPIA *Oreochromis niloticus*
- 12:10 Carolina Castro**, Geneviève Corraze, Amalia Pérez-Jiménez, Laurence Larroquet, Marriane Cluzeaud, Stéphane Panserat, Aires Oliva-Teles
HOW DIETARY CARBOHYDRATES AND LIPID SOURCE AFFECT LIPID AND METABOLISM IN EUROPEAN SEA BASS *Dicentrarchus labrax* JUVENILES?
- 12:30 Luisa M. P. Valente**, Bruno Reis, Eduarda Cabral, Telmo Fernandes, Manuela Castro-Cunha, Maria Beatriz Oliveira, Luis Cunha, Luisa M. P. Valente
LONG-TERM FEEDING OF VEGETABLE OILS TO SENEGALESE SOLE UNTIL MARKET SIZE: EFFECTS ON GROWTH AND FLESH QUALITY. RECOVERY OF FATTY ACID PROFILES BY A FISH OIL FINISHING DIET

13:10 LUNCH

- 14:30 Douglas R. Tocher**, Monica B. Betancor, Matthew Sprague, Olga Sayanova, Sarah Usher, Patrick J. Campbell, Johnathan A. Napier
HIGH-EPA OIL FROM TRANSGENIC *Camelina sativa* AS A REPLACEMENT FOR MARINE FISH OIL IN FEEDS FOR ATLANTIC SALMON *Salmo salar*
- 14:50 Ken Cheng**, Liane Wagner, Ali A. Moazzami, Pedro Gomez-Requeni, Jana Pickova
EVALUATION OF DEFATTED FISH MEAL AND DECONTAMINATED FISH OIL FROM BALTIC SEA USED IN FEED FOR ARCTIC CHARR *Salvelinus alpinus* BY 1H NMR-BASED METABOLOMICS APPROACH
- 15:10 Luisa M. P. Valente**, Mariana Araújo, Paulo Rema, Vicenza Ferraro, Manuela Pintado, Filipa Pimentel
Maria Beatriz Oliveira, Isabel Pinto, Luisa M. P. Valente
EFFECTS OF DIETARY INCLUSION OF *Gracilaria vermiculophylla* ON MUSCLE ANTIOXIDANT CAPACITY OF RAINBOW TROUT
- 15:30 Olga L. Rubio-Mejía**, Mónica B. Betancor, Douglas R. Tocher
DEVELOPMENT AND UTILISATION OF *IN VITRO* CELL CULTURE MODEL FOR AN INTEGRATED APPROACH TO STUDY THE BIOCHEMICAL AND MOLECULAR REGULATION OF LIPID METABOLISM IN FISH
- 15:50 Marta Conde-Sieira**, J. L. Soengas, L. M. P. Valente
GLUCOSE TOLERANCE AND METABOLIC RESPONSE TO HYPO- AND HYPER-GLYCAEMIA IN SENEGALESE SOLE *Solea senegalensis*
- 16:10 Babak Shoabi Omrani**, Alireza Shenavar Masouleh, Ali Hadadi, Farhad Moosakhani, Valiollah Koozdar
EVALUATION OF TWO CONCENTRATIONS OF A PROBIOTIC ON TOTAL LENGTH AND WEIGHT OF PANGASIU FISH

GENOMIC RESEARCH AND APPLICATIONS - CONTINUED

Friday, October 17 10:30 - 16:30 Room R4

Chair: Patrick Prunet

- 16:30 Pierrick Haffray**, Rachid Mahla, Jean-Sébastien Bruant, Rémi Ricoux
GENETIC VARIABILITY OF FRENCH BROODSTOCKS OF THE MEAGRE *Argyrosomus regius* COMPARED TO WILD POPULATIONS
- 10:50 Hervé Chavanne**, J. Hofherr, F. Contini, L. Bargelloni
AQUATRACE PROJECT: NEW SURVEY ON THE BREEDING PRACTICES IN THE EUROPEAN AQUACULTURE INDUSTRY
- 11:10 J. A. Calduch-Giner**, A. Bermejo-Nogales, J. Pérez-Sánchez
MOLECULAR CHARACTERIZATION AND FUNCTIONAL REGULATION OF MITOCHONDRIAL RESPIRATORY CHAIN IN GILTHEAD SEA BREAM *Sparus aurata*

- 11:30 Christian De Santis**, Kerry Bartie, Rolf-Erik Olsen, Douglas R. Tocher
INFLUENCE OF A NUTRITIONAL STRESS ON GENE EXPRESSION IN ATLANTIC SALMON
Salmo salar: COMPARISON OF HEPATIC AND INTESTINAL TRANSCRIPTOMES
- 11:50 Nadège Richard**, Tomé S. Silva, Serena Ferrarresso, Luca Bargelloni, Tune Wulff, Jorge Dias, Denise Schrama, Pedro M. Rodrigues, Luis E. C. Conceição
NUTRITION CAN ASSIST SEABREAM TO COPE WITH WINTER THERMAL STRESS:
TOWARDS THE DEVELOPMENT OF MOLECULAR INDICATORS OF METABOLIC STATUS
- 12:10 Simona Rimoldi**, Laura Benedito-Palos, Genciana Terova, Jaume Pérez-Sánchez
THE CHANGING GENE EXPRESSION PROFILE INDUCED BY FASTING AND REFEEDING IN
EUROPEAN SEA BASS *Dicentrarchus labrax*
- 13:10 LUNCH**
- 14:30 Ana Gómez**, Zehor Ameer, Manuel Carrillo, Silvia Zanuy, Ana Gómez
ASSESSMENT OF NON-LETHAL MARKERS FOR EARLY DETECTION OF PRECOCIOUS
PUBERTY IN SEA BASS *Dicentrarchus labrax* MALES
- 14:50 Catarina C.V. Oliveira**, Elsbeth McStay, Andrew Davie, Maria Filipa Castanheira,
Elsa Cabrita, Maria Teresa Dinis, Hervé Migaud
INVESTIGATING THE KISS SYSTEM DURING LARVAL ONTOGENY AND SEX REVERSAL
PROCESS IN GILTHEAD SEABREAM *Sparus aurata*
- 15:10 Christos Palaiokostas**, Michaël Bekaert, Mohd G.Q. Khan, John B. Taggart, Karim Gharbi,
Brendan J. McAndrew, David J. Penman
IDENTIFICATION OF A NOVEL QTL INVOLVED IN SEX REVERSAL IN NILE TILAPIA
Oreochromis niloticus FAMILIES WITH SKEWED SEX RATIOS USING ddRAD-SEQ
- 15:30 Balázs Kovács**, Csilla Uri, Attila Patócs, Endre Bartha, Lorinc Pongor, Tamás Müller,
László Orbán, Béla Urbányi
STRATEGY OF THE SEX DETERMINING GENE IDENTIFICATION IN AFRICAN CATFISH
Clarias gariepinus (BURCHELL, 1822)
- 15:50 Costas S. Tsigenopoulos**, Tereza Manousaki, Alexandros Tsakogiannis, Jacques Lagnel,
Elena Sarropoulou, Jenny Z. Xiang, Nikos Papandroulakis, Constantinos C. Mylonas
THE SEX-SPECIFIC TRANSCRIPTOME OF THE HERMAPHRODITE SPARID SHARPSNOUT
SEABREAM *Diplodus puntazzo*
- 16:10 Florian Enez**, Sophie Puyo, Pierrick Haffray, Florian Enez, Ricardo Gonzalez-Araya,
Jennifer Del Guifice, Clément Pernelle, Mathieu Savary, Jean-Louis Bliin, Bertrand Salaun,
Sonia Gachelin, Hervé Keraudren, Philippe Glize, Florian Gaussem, Felix Blasquez,
Adeline Pérignon, Erika Gervesoni, Pierre Boudry, Hervé Chapuis
HERITABILITY OF SURVIVAL TO THE PACIFIC OYSTER *Crassostrea gigas* MORTALITY
SYNDROME (POMS) AND GxE INTERACTIONS ALONG THE FRENCH COAST: THE
“SCORE” PROJECT

NUTRITION: REQUIREMENTS - CONTINUED

Friday, October 17 10:30 - 16:30 Room R6

Chairs: Jaume Perez Sanchez, Vasilis Karalazos



- 10:30 Simon F. Klatt**, Mario Hasler, Arndt von Danwitz, Andreas Susenbeth
LOWER AND UPPER THRESHOLDS FOR L-SULPHURIC AMINO ACIDS SUPPLY IN DIETS OF JUVENILE TURBOT *Psetta maxima*
- 10:50 Inge Geurden**, J. Schrama, E. Quillet, L. Labbé, T. Laine, B. Weinans, E. H. Eding
FEED RESTRICTION DURING FIRST FEEDING OF RAINBOW TROUT AFFECTS ENERGY BALANCES AND ENERGY INTAKE IN LATER LIFE
- 11:10 Tu A. Vo**, Elin Kjærsvik, Christine K. Halseth, Tora Bardal, Trina F. Galloway
MUSCLE GROWTH DYNAMICS AND THE INFLUENCES OF FIRST-FEEDING DIETS ON MUSCLE GROWTH IN ATLANTIC COD LARVAE *Gadus morhua* L.
- 11:30 Sergio Sánchez-Nuño**, Teresa Carbonell, Ignasi Sanahuja, Antonio F. Millán-Cubillo, Pedro M. Guerreiro, Jaume Fernández-Borràs, Ramón Fontanillas, Josefina Blasco, Antoni Ibarz
REDOX CHALLENGE IN GILTHEAD SEA BREAM *Sparus aurata* DURING COLD AND RECOVERY IN RESPONSE TO DIETARY ENERGY
- 11:50 Daniel Leeming**, Jamie Walton, Patrick Campbell, John Taylor, Marie Smedley, Herve Migaud
REDUCTION OF CATARACTS AND VERTEBRAL DEFORMITIES IN TRIPLOID ATLANTIC SALMON FROM SEA TRANSFER TO HARVEST
- 12:10 Lidiane C. G. Sandre**, Hellen Buzollo, Lúgia Neira, Thiago Nascimento, Rosangela Jomori, Dalton Carneiro
PERFORMANCE AND NUTRITIONAL EFFICIENCY OF TAMBAQUI *Colossoma macropomum* JUVENILES FED DIETS CONTAINING DIFFERENT LIPID AND CARBOHYDRATE LEVELS
- 12:30 Ricardo Martino**, Jose T. Seixas Filho, Sílvia C. R. P. Mello, Eduardo A. T. Lanna, Fernanda R. M. Ramos
PERFORMANCE OF YOUNG BULLFROG *Lithobates catesbeianus* FED DIETS FORMULATED WITH DIFFERENT LIPID LEVELS
- 12:50 Gabriela Gaxiola**, Adriana Silva, Gerard Cuzon, Xavier Chiappa, Daniel Rocher
PROTEIN AND LIPID/PROTEIN REQUIREMENTS FOR WILD JUVENILES OF RED GROUPEP *Epinephelus morio* IN CONTROLLED CONDITION
- 13:10 LUNCH**
- 14:30 Nilda Loyola Sarmento**, Edenilce F. F. Martins, Deliane C. Costa, Cristiano C. Mattioli, Walisson S. Silva, Isabella I. F. A. Torres, Flávia O. Mesquita, Marcelo R. Luz, Ronald K. Luz
EFFECTS OF DIETARY SUPPLEMENT OF VITAMIN C ON PH AND SPERM MOTILITY OF NILE TILAPIA *Oreochromis niloticus*

- 14:50 Manuel Nande**, P. Domingues, J. Iglesias, M. Perez
UTILIZATION OF YOLK RESERVES BY EMBRYOS AND PARALARVAE OF *Octopus vulgaris*
AT 14°C AND 18°C
- 15:10 Antonios Chalaris**, Eric Leclercq, Benjamin Zerafa, Andrew Davie, Herve Migaud
EFFECTS OF DIFFERENT WEANING AND ON-GROWING DIETS ON FARMED BALLAN
WRASSE *Labrus bergylta* HATCHERY PERFORMANCE
- 15:30 Nina A. Abrosimova**, Kseniya Abrosimova
PREVENTION OF TYMPANISM IN STURGEON JUVENILES REARED UNDER INTENSIVE
SYSTEM OF PRODUCTION
- 15:50 Leire Arantzamendi**, Iñigo Goitia, Yolanda Ríos, Nagore Cuevas
EFFECT OF DIETARY COMPOSITION ON GROWTH, DIGESTIVE ENZYMES ACTIVITIES,
MUSCLE COMPOSITION AND LIVER HISTOLOGY OF TILAPIA *Oreochromis niloticus*
PRODUCED IN A PILOT-SCALE AQUAPONIC SYSTEM
- 16:10 Mikhail Solovveyev**, Elena Mente, Nikolaos Vlahos, Enric Gisbert, Maria Makri,
Guiomar Rotllant
DIGESTIVE ENZYMES PROFILE DURING ONTOGENESIS IN THE ZEBRA CICHLID
Archocentrus nigrofasciatus

COMMERCIALISATION AND ECONOMICS OF AQUACULTURE PRODUCTS

Friday, October 17 10:30 - 16:30 Room R8

Chairs: José Polanco, Begoña Perez

- 10:30 Frank Asche**, Roy Endre Dahl
VOLATILITY REGIMES IN THE AQUACULTURE MARKETS ON SPECIES AND PRODUCTS
- 10:50 Rasmus Nielsen**, Frank Asche, Max Nielsen
RE-STRUCTURING THE EUROPEAN FRESH WATER AQUACULTURE INDUSTRY: FROM
FAMILY OWNED TO LARGE SCALE INDUSTRY – SURVIVING GLOBAL COMPETITION
- 11:10 Tenaw G. Abate**, Rasmus Nielsen, Max Nielsen, Guillaume Drillet, Per M. Jepsen,
Benni W. Hansen
ECONOMIC FEASIBILITY OF COPEPOD PRODUCTION FOR COMMERCIAL USE:
RESULT FROM A PROTOTYPE PRODUCTION FACILITY
- 11:30 Hilde Ness Sandvold**, Frank Asche, Ragnar Tveterås
TECHNICAL INEFFICIENCY IN NORWEGIAN PRODUCTION OF JUVENILE SALMONIDS
- 11:50 Daniel Gordon**, Frank Asche
DECOMPOSING PROFIT TO MEASURE GROWTH IN DEMAND FOR FARMED SALMON:
AN INDEX APPROACH
- 12:10 Finn Victor Willumsen**
USING LARGE SCALE FACILITIES IN CLOSE COOPERATION WITH THE INDUSTRY –
A MUST AND A MODEL TO FULFILL THE NEED FOR INCREASING AN EFFICIENT FUTURE
SEAFOOD PRODUCTION
- 12:30 Atle Oglend**, Frank Asche, Tore Kleppe
ON THE MARKET DYNAMICS OF MULTI-COHORT FISH PRODUCTION

- 12:50 Atle Guttormsen**, Frank Asche, Kristin H. Roll
THE ECONOMICS OF ESCAPED FARMED SALMON *Salmo salar*
- 13:10 LUNCH**
- 14:30 Ignacio Llorente**, J. M. Fernández-Polanco, L. Luna
PRICE INTEGRATION ALONG THE SPANISH GILTHEAD SEABREAM *Sparus aurata*
VALUE CHAIN
- 14:50 Cristina Escobar**, Zein Kallas, José M. Gil
CONSUMERS' PREFERENCE FOR GILT-HEAD SEA BREAM CONSUMPTION IN
CATALONIA: A CHOICE EXPERIMENT APPROACH
- 15:10 Arne Sorvig**, Yuko Onozaka, Havard Hansen
CONSUMER PRODUCT PERCEPTIONS AND SALMON CONSUMPTION FREQUENCY:
THE ROLE OF HETEROGENEITY BASED ON FOOD LIFE STYLE SEGMENTS
- 15:30 M. L. Nunes**, C. Afonso, S. Costa, N. Bandarra, S. Gonçalves, H. Lourenço, M. F. Martins,
I. Batista, P. Pousão-Ferreira
EFFECT OF CURRENT CULINARY TREATMENTS ON THE NUTRITIONAL VALUE AND
HEALTH BENEFITS ASSOCIATED TO THE CONSUMPTION OF SALMON, GILTHEAD
SEABREAM AND MEAGRE
- 15:50 Amparo Gonçalves**, Maria Leonor Nunes
ADDING VALUE TO MEAGRE: CONVENIENT FRESH PRODUCTS FOR AN INCREASING
MARKET

OFFSHORE MARICULTURE

Friday, October 17 14:30 - 16:30 Room 10

Chairs: Arne Fredheim, Diego Mendiola

- 14:30 Øystein Patursson**, Heðin I. Abrahamsen, Klæmint Østerø
OPEN OCEAN FISH FARMING – INVESTIGATING THE POSSIBILITIES FOR USING
TRADITIONAL SALMON FARMING CAGES
- 14:50 Heini Winthereig Rasmussen**, Øystein Patursson, Knud Simonsen, Pascal Klebert
3-DIMENSIONAL FLOW FIELD VISUALIZATION IN THE WAKE OF A GROUP OF SALMON
Salmo salar FARMING SEA CAGES
- 15:10 Lars Gansel**, Jens Birkevold, Frode Oppedal
TOWING AND PUSHING FISH CAGES IN THE FIELD ALLOWS INVESTIGATIONS UNDER
CONTROLLED FLOW CONDITIONS
- 15:30 Nikos Papandroulakis**, P. Anastasiadis, E. Koutandos, C. Thomsen, P. Mayorga,
E. Quevedo, J. Brito
MODULAR MULTIPURPOSE OFFSHORE PLATFORMS: INNOVATIVE OPPORTUNITIES FOR
AQUACULTURE
- 15:50 Cameron Brown**, Despoina Miltiadou, Costas Tsigenopoulos
GENETIC IDENTIFICATION OF EUROPEAN SEABASS *Dicentrarchus labrax* FROM WILD
AND AQUACULTURE SOURCES IN CYPRUS

CLIMATE CHANGE AND ENVIRONMENTAL MANAGEMENT

Friday, October 17 14:30 - 16:30 Room 11

Chair: Angel Borja

- 14:30 James A. Morris Jr.**, Carol S. Price, Kenneth L. Riley
MARINE CAGE CULTURE AND THE ENVIRONMENT: A GLOBAL ANALYSIS TO INFORM MONITORING AND MODELING
- 14:50 Jacobs Silke**, Isabelle Sioen, António Marques, German Cano-Sancho, Alice Tediosi, Federico Cardona-Pons, Wim Verbeke
EUROPEAN SEAFOOD CONSUMERS' PERCEIVED CAUSES OF POLLUTION IN THE MARINE ENVIRONMENT AND RELATED CONCERNS
- 15:10 Henrik Jeuthe**, Eva Brännäs, Jan Nilsson
THERMAL STRESS IN ARCTIC CHARR *Salvelinus alpinus* BROODSTOCK: A 28-YEAR CASE STUDY
- 15:30 Gary Wikfors**, Hélène Hégaret, Philippe Soudant, Agneta Persson, Eve Galimany
SCIENCE TO SUPPORT ADAPTIVE MANAGEMENT OF SHELLFISH AQUACULTURE IN A WORLD OF INCREASING HARMFUL ALGAL BLOOMS

INTEGRITY, SAFETY AND AUTHENTICITY OF FOOD PRODUCTS

Friday, October 17 14:30 - 16:30 Room D

Chair: Antonio Marques

- 14:30 Marinella Farré**, Josep Sanchís, Cristina Bosch, Damià Barceló
CONTAMINANTS IN FISH, SEA-FOOD AND SEAWATER: THE SEA-ON-A-CHIP PROJECT
- 14:50 António Marques**, Ana Luísa Maulvault, Ana Custódio, Patrícia Anacleto, Tiago Repolho, Pedro Pousão, Maria Leonor Nunes, Rui Rosa
EFFECT OF WARMING ON BIOACCUMULATION, SPECIATION AND ELIMINATION OF MERCURY IN JUVENILE SEABASS *Dicentrarchus labrax*
- 15:10 Carlos Garcia de Leaniz**, Elizabeth Price, David Soto, Victoria Hobson
IDENTIFICATION OF CULTURED FISH BY STABLE ISOTOPE ANALYSIS
- 15:30 Òscar Aznar-Aleman**, Ethel Eljarrat, Damià Barceló
PYRETHROID ACCUMULATION IN FARMED SALMON
- 15:50 Eman El-Wazzan**, Atif Salah, Mark Dimech
HEAVY METALS ASSESSMENT IN THE STRIPED VENUS CLAM *Chamelea gallina* IN EGYPTIAN FISHERIES AS POTENTIAL CANDIDATE FOR EXPLOITATION AND AQUACULTURE
- 16:10 Sahar Jalili**, Mehrdad Mirzaeifard
NUTRIENT COMPOSITION AND SLAUGHTER YIELD OF TWO SPECIES NATIVE TO THE WATERS OF THE PERSIAN GULF FISHERIES

FRIDAY

LABORATORY FISH MODELS FOR AQUACULTURE APPLICATIONS

Friday, October 17 14:30 - 16:30 Room E1

Chair: Miguel Angel Pardo

- 14:30 Iñaki Iturria**, Usua Oyarbide, Sandra Rainieri, Miguel Angel Pardo
USE OF GERM-FREE ZEBRAFISH TO STUDY HOST-MICROBIOTA INTERACTIONS
- 14:50 Sandra Rainieri**, Gonzalo A. Garcia
SYSTEM TO DETECT FISH STRESS AND WELLBEING WITH A NON-INVASIVE,
NON-VIDEO BASED APPROACH
- 15:10 Ibon Cancio**, Iratxe Rojo-Bartolomé
TRANSCRIPTION FACTOR IIIA IN FISH OOGENESIS: GENOME DUPLICATION IN
TELEOSTS AND PRESENCE OF TWO DIFFERENTIALLY REGULATED PARALOG GENES
- 15:50 Bela Urbanyi**, Katalin Bakos, Robert Kovacs, Marta Reining, Gyongyi Gazsi,
Balazs Kovacs, Andrea Csepeli, Judit Kovesi, Dora Bencsik, Gergely Simon, Zsolt Csenki
ZEBRAFISH: A TOXICOLOGICAL “MULTITOOL”

FRIDAY

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