



31ST CONFERENCE OF EUROPEAN COMPARATIVE ENDOCRINOLOGISTS

September 1-5, 2024
Ancona, Italy



Riviera del Conero, SIROLO Italy

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SCIENTIFIC PROGRAM

Sunday, September 1st

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| 16:00 | REGISTRATION DESK OPEN |
| 17:00-17:30 | Opening Ceremony |
| 17:30-18:15 | PLENARY 1 - IMPACTS OF GLOBAL CHANGE ON MARINE BIODIVERSITY: THE CONTRIBUTION OF COMPARATIVE ENDOCRINOLOGY Sylvie Dufour, France Chair: Francesca Maradonna (Room A1) |
| 18:15-20:00 | Welcome Party |

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| 8:00 | REGISTRATION DESK OPEN | | | |
| 9:00-9:50 | PLENARY 2 - COMPARATIVE STUDIES IN FISH SHED NEW LIGHT ON THE CIRCADIAN CLOCK Daniela Vallone, Germany Chair: Yoav Gothlif (Room A1) | | | |
| PARALLEL SECTIONS | SESSION 1 NEUROPEPTIDES EVOLUTION AND FUNCTION: NEW AND EMERGING CONCEPTS Chairs: Elphick Maurice & Luis Yañez-Guerra (Room A1) | SESSION 2 HORMONES AND BEHAVIORS Chairs: Isabel Beets & Oliver Bosch (Room A2) | | |
| 10:00-10:30 | SoA1 Functional characterization and signaling systems of candidate ecdysis triggering hormone and eclosion hormone in the shore crab, <i>Carcinus maenas</i> Simon Webster, UK | SoA2 Reproduction at high latitudes: Environmental regulation of the neuroendocrine system in wild, free-living song birds Simone Meddle, UK | | |
| 10:30-11:00 | Coffee Break | | | |
| 11:00-11:20 | O1 Harnessing toxins to elucidate neuropeptide evolution and function Thomas Lund Koch, USA | O7 Hormones and nest building by birds: circulating sex-steroid dynamics during early breeding in the zebra finch, <i>Taeniopygia guttata</i> Marie Hébert, UK | | |
| 11:20-11:40 | O2 Genome of the starfish <i>Asterias rubens</i> yields new insights into the evolution of neuropeptide signalling systems Nayeli Escudero Castelán, UK | O8 Top-down regulation of aversive social experiences by the lateral septum – a role for oxytocin and corticotropin releasing factor signaling Rohit Menon, Germany | | |
| 11:40-12:00 | O3 Identification of receptors for relaxin-like peptides as regulators of reproduction in echinoderms Ross Bathgate, Australia | O9 The impact of domestication and life experience on wolves' and dogs' endocrine response to interactions with humans and conspecifics Gwendolyn Wirobski, Switzerland | | |
| 12:00-12:20 | O4 The ancestral PACAP/GCG in amphioxus, the basal chordate Billy K.C. Chow, Hong Kong, SAR | O10 Unravelling the role of the oxytocin/vasopressin-like neuropeptide signaling system in the life cycle of the desert locust Stijn Goossens, Belgium | | |
| 12:20-12:40 | O5. Neuronless but Not Signal-less: Ancestral Neuropeptide Receptors in <i>Trichoplax adhaerens</i> Luis Yanez-Guerra, UK | O11 Agouti-induced anxiety-like behaviour is mediated by central serotonergic pathways in zebrafish José Miguel Cerda-Reverter, Spain | | |
| 12:40-13:00 | O6 Functional characterisation of neuropeptides that act as ligands for both calcitonin-type and pigment-dispersing factor-type receptors in a deuterostome Muyan Chen, China | O12 Individual features of the functioning of the endocrine systems during aging Nadezhda Goncharova, Russia | | |
| 13:00-14:00 | Light Lunch | | | |
| PARALLEL SECTIONS | SESSION 3 ENDOCRINE CONTROL OF ION-AND OSMOREGULATION Chairs: Power Deborah & Andre Seale (Room A1) | SESSION 4 ENDOCRINOLOGY AND CHRONOBIOLOGY Chairs: José Miguel Cerda - Reverter & Nicholas Simon Foulkes (Room A2) | | |
| 14:00-14:30 | SoA3 Salinity-dependent systemic and peripheral endocrine signaling in the euryhaline Mozambique tilapia Andre Seale, USA | SoA4 Old and new functions of the fish pineal gland Yoav Gothlif, Israel | | |
| 14:30-14:50 | O13 Examining the influence of hormones on an aquaporin in adult female mosquito Malpighian (renal) tubule Britney Picinic, Canada | O17 Stress affects the circadian system of the trout gut. Benefits of L-trypt supplementation Maria Alborja-Valado, Spain | | |
| 14:50-15:10 | O14 A novel diuretic hormone in flies: tachykinins increase fluid and ion transport by the Malpighian (renal) tubules of <i>Drosophila melanogaster</i> Jean-Paul Paluzzi, Canada | O18 Circadian control of brown adipose tissue is mediated by melanopsin in mammals Giovanna Zanetti, Brazil | | |
| 15:10-15:30 | O15 The River and the Sea: a gene loss and duplication domino parallel the transition of the striped eel-marine catfishes Filipe Castro, Portugal | O19 Investigating the role of liver in the control of circadian rhythm in swordfish females Giulia Chemello, Italy | | |
| 15:30-15:50 | O16 Exploring Endocrine Disruption and Osmoregulation Pathways using Knowledge Graphs and Network Biology Mariagiovanna Pais, UK | O20 Daily variations in dopaminergic activity in the rainbow trout forebrain: Impact of feeding Mauro Chivite, Spain | | |
| 15:50-17:50 | POSTER SECTION 1 & Coffee Break (Room A1-A2) | | | |
| 19:00-20:00 | Social Event for our young scientist "A toast to Science" | | | |

| 8:00 | | REGISTRATION DESK OPEN | |
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| 9:00-9:50 | | <p>PLENARY 3- ENDOCRINE DISRUPTION IN WILDLIFE - A 35 YEAR RESEARCH JOURNEY</p> <p>Charles Tyler, UK Chair: Renata Guilmares Moreira Whitton (Room A1)</p> | |
| PARALLEL SECTIONS | <p>SESSION 5 ENDOCRINE RESPONSES TO ENVIRONMENTAL CHALLENGE AND CHANGE/LEOPOLDINA SYMPOSIUM</p> <p>Chairs: Oliana Carnevali & Horst-Werner Korf (Room A1)</p> | <p>SESSION 6 ENDOCRINE CONTROL OF ENERGY BALANCE AND GROWTH</p> <p>Chairs: Encarni Capilla & José Luis Soengas (Room A2)</p> | |
| 09:50-10:00 | | Opening address Thomas Deller ML, Germany | |
| 10:00-10:30 | | SoA5 A systems level approach to studying the impacts of macro-micro-nanoplastics on Freshwater Biota and Public Health Gary Hardiman, UK | SoA6 Mineralocorticoid receptor activation: An adiposity signal in zebrafish Mathilakath M. Vijayan, Canada |
| 10:30-11:00 Coffee Break | | | |
| 11:00-11:20 | | O21 Neuroendocrine responses of teleost to predicted future environments Arianna Servili, France | O27 Novel insights into metabolic regulations via Ion transport peptide and Adipokinetic hormone signaling Martina Galikova, Slovakia |
| 11:20-11:40 | | O22 Endocrine disruptors: the silent threat to male reproduction Marta Lombo, Spain | O28 Novel transgenic tools for studying the regulation of GH in fish Genevieve Fernandes, Israel |
| 11:40-12:00 | | O23 How short and long term rises in water temperature and salinity influence the tilapias (Cichlidae) endocrinology Helena D'Costa, France | O29 Effects of central leucine detection on peripheral energy metabolism in rainbow trout (Oncorhynchus mykiss) Sara Comesaña, Spain |
| 12:00-12:20 | | O24 Top-down endocrine and metabolic-disrupting effects of tributyltin on a widely used molluscan model species, Lymnaea stagnalis Istvan Fodor, Hungary | O30 Single CART knockout affects feeding related behavior of Nile tilapia larvae Nikko Alvin Cabillon, Israel |
| 12:20-12:40 | | O25 Splice-specific deficiency in the PAC1 receptor affects temperature-related metabolism in zebrafish Iswarya Arokiadhas, Israel | O31 Impact of single amino acids on appetite-regulatory mechanisms in cell lines derived from rainbow trout proximal (RTpMI) and distal (RTdiMI) intestine Ayelel Melisa Blanco, Spain |
| 12:40-13:00 | | O26 Natural-based solutions to mitigate dietary microplastics accumulation and oxidative stress in fish Nico Cattaneo, Italy | O32 Evolution of TRH neuropeptide function: insights from sea urchins Maria Cocurullo, Italy |
| 13:00-14:00 Light Lunch | | | |
| PARALLEL SECTIONS | <p>SESSION 5 ENDOCRINE RESPONSES TO ENVIRONMENTAL CHALLENGE AND CHANGE/LEOPOLDINA SYMPOSIUM</p> <p>Chairs: Oliana Carnevali & Horst-Werner Korf (Room A1)</p> | <p>SESSION 7 SIGNALING PATHWAYS IN IMMUNITY</p> <p>Chairs: Elizabeth Eppler & Filipe Castro (Room A2)</p> | |
| 14:00-14:30 | | SoA7 Role of thyroid hormones in the regulation of reproduction, growth and metabolism in response to environmental changes in fish Hamid Habibi, Canada | SoA8 Signaling pathways in endocrine-immune interactions from fish to mammals Elizabeth Eppler, Switzerland |
| 14:30-14:50 | | O33 Searching for new biomarkers of endocrine disruption: the potential of endocannabinoids and carboxylesterases Isabel Forner-Piquer, Spain | O37 The role of pS727 Stat3 regulation of Vitamin D pathway in the pathogenesis of Autosomal Dominant Hyper IGE syndrome Annachiara Tesoriere, Italy |
| 14:50-15:10 | | O34 Putative regulatory factors of the species-specific response of two marine bivalves to ocean acidification Maoxiao Peng, Portugal | O38 The JAK/STAT pathway in Botryllus schlosseri: phylogenetic and molecular analysis of the main components of the pathway and its role in immunoresponses Federico La Torre, Italy |
| 15:10-15:30 | | O35 Exploring the involvement of Endocannabinoid system and PFOA on human fetal osteoblast cells and human osteoblast bone spheroids Fiorenza Sella, Italy | O39 Metamorphosis associated immune system maturation in Senegalese sole Deborah Power, Portugal |
| 15:30-15:50 | | O36 The impact of chronodisruption (night shift work, light pollution) on endocrine systems Horst-Werner Korf, Germany | O40 Type 1 diabetes impairs the activity of rat testicular somatic and germ cells through NRF2/NLRP3 pathway-mediated oxidative stress Massimo Venditti, Italy |
| 15:50-16:10 | | General Symposium Discussion, Svenja Caspers, Germany | O41 Immune-enhancing effects of stress: Acute stress-induced macrophage redistribution promotes immune surveillance in zebrafish Marcel JM Schaaf, The Netherlands |
| 16:10-16:30 | | | O41b Cholesterol metabolism, nuclear receptors and regulation of tumor immunology Erik Nelson, USA |
| 16:30-18:30 POSTER SECTION 2 & Coffee Break (Room A1-A2) | | | |
| 19:00-20:00 | | Public Talk at Teatro delle Muse (<i>In Italian</i>) Inquinanti ambientali: una minaccia per le Specie Selvatiche e per l'Uomo (Environmental Endocrine Disrupting Chemicals: a treat to Wildlife and Human Health) Oliana Carnevali, Italy | |

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| 8:00 | REGISTRATION DESK OPEN | |
| 9:00-9:50 | PLENARY 4 - Regulation of Master Regulators: Molecular Mechanisms Specifying Insulin and IGF Actions. Cunming Duan, USA Chair: Mark Sheridan (Room A1) | |
| PARALLEL SECTIONS | SESSION 8 FUNCTION OF HORMONES, THEIR RECEPTORS AND BINDING PROTEINS Chairs: Rosaria Meccariello & Hamid Habibi (Room A1) | SESSION 9 MOLECULAR AND CELLULAR REGULATION OF STRESS Chairs: Luisa Dalla Valle & Matt Vijayan (Room A2) |
| 10:00-10:30 | SoA9 The ecological function of thyroid hormone revealed by coral reef fishes Vincent Laudet, Japan | SoA10 Trends in the Evolution of the Melanocortin-2 Receptor Robert M. Dores, USA |
| 10:30-11:00 | Coffee Break | |
| 11:00-11:20 | O42 Deciphering TGF- β signaling pathways in European Sea Bass (<i>Dicentrarchus labrax</i>): evolutionary insights and functional characterization Alessia Mascoli, Spain | O48 Novel insights into thyroid hormone synthesis and signaling in sea urchin embryogenesis reveals potential ancestral function Andreas Heyland, Canada |
| 11:20-11:40 | O43 Uncovering roles in the somatostatin gene family Adelino Canario, Portugal | O49 Structural environmental enrichment improves stress resilience in juvenile Atlantic Salmon, a study focused on central serotonergic function Mauro Chivite, Spain |
| 11:40-12:00 | O44 Aromatase, Neurogenesis and Behavior in adult zebrafish: consequences of brain aromatase knockout Elisabeth Pellegrini, France | O50 The CRF binding protein in the paraventricular nucleus of the hypothalamus determines the dampened stress response in lactation Oliver Bosch, Germany |
| 12:00-12:20 | O45 Adipokinetic hormone family members in Coleoptera as tools for green insecticides Gerd Gäde, South Africa | O51 Modulatory effects of braconid wasp venom on <i>Drosophila melanogaster</i> : biochemical, physiological, and ultrastructural insights Jan Černý, Czech Republic |
| 12:20-12:40 | O46 The Kisspeptin System modulates endocannabinoid receptors in both hypothalamus and hippocampus of male rats Marianna Marino, Italy | O52 Cortisol-mediated behaviour is dependent on glucocorticoid and mineralocorticoid receptor heterodimerization Erin Faight, The Netherlands |
| 12:40-13:00 | O47 Thyrotropin-releasing hormone is the hatching hormone of Teleosts Deodatta Gajbhiye, Israel | O53 Fish embryonic incubation temperatures, acute heat stress and hypoxia lead to alterations in, and plasticity of, the cellular stress response, whole animal performance and activation of the embryonic hypothalamic-pituitary-interrenal (HPI) axis Richard Manzon, Canada |
| 13:00-14:00 | Light Lunch | |
| 14:00-14:30 | ESCE GENERAL ASSEMBLY (Room A1) | |
| 15:30-19:00 | Social Trip along the Conero Riviera | |
| 20:00-23:30 | Gala Dinner at Ristorante "Il Giardino" | |

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| 8:00 | REGISTRATION DESK OPEN | |
| 9:00-9:50 | PLENARY 5 - Sesquiterpenoid hormones evolution and regulation in invertebrates Jerome Hui, Hong Kong Chair: Simon Webster (Room A1) | |
| PARALLEL SECTIONS | SESSION 10 ENDOCRINE AND PARACRINE CONTROL OF REPRODUCTION AND DEVELOPMENT Chairs: Giorgia Gioacchini & Jozef Vanden Broeck (Room A1) | SESSION 11 CELL PLASTICITY, STEMNESS, DIFFERENTIATION Chairs: Marta Lombo & Tapas Chakraborty (Room A2) |
| 10:00-10:30 | SoA11 The presence and potential roles of hormones for the reproduction in stony corals (Cnidaria, Anthozoa, Scleractinia) Chang Ching Fong, Taiwan | SoA12 Certain paracrine factors implicated in germ stem cell fate could also exhibit additional endocrine functions throughout the reproductive cycle of rainbow trout (<i>Oncorhynchus mykiss</i>) Jean-Jacques Lareyre, France |
| 10:30-11:00 | Coffee Break | |
| 11:00-11:20 | O54 Neuropeptides involved in diuresis regulate reproductive processes in female, <i>Rhodnius prolixus</i> Areej N. Al-Dailami, Canada | O60 The astonishing stemness properties of the colonial ascidian <i>Botryllus schlosseri</i> : interplay between generations and stem cell niches Lucia Manni, Italy |
| 11:20-11:40 | O55 Recent progress in the reproductive physiology of desert locust males Jozef Vanden Broeck, Belgium | O61 Mapping motoneurons in an echinoderm Wenbin Kang, UK |
| 11:40-12:00 | O56 Characterization of GtH-independent endocrine GnRH signalling in the testis of the small-spotted catshark <i>Scyliorhinus canicula</i> : a direct ancestral role for GnRH isoforms in the control of spermatogenesis and steroidogenesis in early vertebrates Fabian Jeanne, France | O62 Effect of methyl methanesulfonate on the developmental role of AP endonuclease (APEX1) in sterlet (<i>Acipenser ruthenus</i>) embryos Abhipsha Dey, Czech Republic |
| 12:00-12:20 | O57 The use of synthetic feed attractants in zebrafish (<i>Danio rerio</i>) diets: effects on growth, welfare, appetite stimulation, and reproductive performance Federico Conti, Italy | O63 Molecular mechanisms regulating myogenic cell proliferation and differentiation in European sea bass (<i>Dicentrarchus labrax</i>) Joaquim Gutiérrez, Spain |
| 12:20-12:40 | O58 Complete secretogranin 2 gene knockout disrupts zebrafish reproduction W.K.C. Udeesha Erandani, Canada | O64 Transcriptomic and epigenomic responses to cortisol in rainbow trout (<i>Oncorhynchus mykiss</i>) skeletal muscle Juan Antonio Valdés, Chile |
| 12:40-13:00 | | O65 Molecular mechanism of sexual plasticity in fish: a perspective from gonadal stem cell Tapas Chakraborty, Japan |
| 13:00-13:30 | Closing Ceremony and award assignment | |

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| * Student presentations | LEGEND |
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| Poster# | Author | Title |
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| P1 | Weiling Huang, UK | Discovery and functional characterisation of a bombesin-type neuropeptide signalling system in an echinoderm. |
| P2 | B er enice Bichon, France | Study of environmental parameters influencing activity of the caudal neurosecretory system in zebrafish. |
| P3 | Zhi Li, Portugal | Neuropeptides regulate bivalve shell growth in the Mediterranean mussel (<i>Mytilus galloprovincialis</i>). |
| P4 | Jo o C.R. Cardoso, Portugal | Exploring PACAP and Its Receptors in Metazoans. |
| P5 | Brianna H. Raven, Canada | Localization of the secretogranin-2 derived peptide secretoneurin in <i>Silurana tropicalis</i> brain and pituitary. |
| P6 | Chade Li, China | MicroRNAs Regulation in Soybean and Pest <i>Riptortus pedestris</i> . |
| P7 | Vincenza Grazia Mele, Italy | HFD mice as a model of oxidative stress to study circRNAs in spermatozoa and epididymis. |
| P8 | Camila de F tima Pereira de Faria, Brazil | Plasma cortisol profile in pacu, a subtropical fish, exposed to different low temperature conditions. |
| P9 | S pra Mohapatra, Japan | Autophagy and gonadal sexuality in fish. |
| P10 | Bart Geens, Belgium | Investigating epigenetic regulation of phase polyphenism using a multi-omics approach. |
| P11 | Oliver Bosch, Germany | Manipulations of corticotropin-releasing hormone or oxytocin systems in the nucleus accumbens shell impair maternal behavior in lactating rats. |
| P12 | Cecilia Bertacini, Brazil | Is aluminum toxic for <i>Astyanax lacustris</i> (Characiformes, Characidae)? Couple social behavior analysis. |
| P13 | Christian Giommi, Italy | Investigating miRNAs and their target mRNAs within human cumulus cells to infer ideal ovarian stimulation protocols for normal ovarian reserve patients. |

| Poster# | Author | Title |
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| P14 | Marianna Marino, Italy | Characterization of the serine protease PREP following puberty manipulations by kisspeptin 10, anandamide, and plastamination in male rats. |
| P15 | Marina Morini, Spain | Cold seawater pre-treatments induce early sexual maturation, increase sensitivity to hormonal treatment and improves the reproductive performance of male European eel. |
| P16 | Lina Verbakel, Switzerland | Identification of new seminal proteins mediating the <i>Drosophila</i> long term post-mating response. |
| P17 | Ki Kei Chan, Hong Kong, SAR | Investigation on the Transcriptomic regulations of male and female <i>Drosophila</i> in Development and Metamorphosis. |
| P18 | Sara Falvo, Italy | D-Aspartate attenuates the toxic effects induced by cadmium on rat steroidogenesis. |
| P19 | Encarnación Capilla, Spain | The endocrine role of bone in fish: osteoblasts influence on myocytes and adipocytes. |
| P20 | Takehiro Furukawa, Japan | Histological analysis of the male reproductive organ and gene expression of insulin-like peptides in the kuruma prawn. |
| P21 | Yashshvini Patel, India | Ulvan Polysaccharide Supplementation Prevents gut microbiome dysbiosis and Testosterone-Induced PCOS-Like Phenotype in Zebrafish. |
| P22 | Francesca Terrin, Italy | The role of Hsd11b2 in zebrafish male reproduction: first insights from the knock-out line. |
| P23 | Erica Trotta, Italy | Potential impacts of microplastics on loggerhead sea turtle embryos. |
| P24 | Alessia Mascoli, Spain | AMH and GSDF: gonadal factors of the TGF- β superfamily in the gametogenesis of the European sea bass (<i>Dicertrarchus labrax</i>). |
| P25 | Rosaria Meccariello, Italy | Regional distribution of bovine kiss1/kiss1R system: a possible modulatory role on sperm kinetic during oviduct colonization. |
| P26 | Paolo Cocci, Italy | Modulation of the hepatic FXR Signaling by Ecdysteroids in Rainbow Trout (<i>Oncorhynchus mykiss</i>) fed Insect Meal Diets. |
| P27 | Francesco Sernesi, Italy | Analysis of glucocorticoids regulation of mitochondrial DNA transcription using zebrafish mutant lines. |

| Poster# | Author | Title |
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| P28 | Maria Zelinda Romano, Italy | Cadmium-induced oxidative stress produces morphological and steroidogenic alteration in the rat Harderian gland: attenuation by Melatonin. |
| P29 | Cecilia Bertacini, Northern Ireland | Biodegradable micro and nanoplastics as emerging environmental pollutants. |
| P30 | Marina Morini, Spain | Characterization and expression of heat shock factor genes in the European eel in response to different environmental conditions and to sexual maturation. |
| P31 | Renata Guimarães Moreira Whitton, Brazil | Subchronic carbamazepine exposure impairs gonadal and interrenal steroid pathways in male <i>Astyanax lacustris</i> . |
| P32 | Giovana Souza Branco, Brazil | Gene expression in the neotropical fish <i>Astyanax lacustris</i> males in response to the environmental changes. |
| P33 | Marcella de Castro Verderame, Brazil | Evaluation of the effects of the neuropharmaceutical carbamazepine on the hepatic function of <i>Astyanax lacustris</i> . |
| P34 | Fátima Fernández-García, Spain | Characterization of TRPVs in European sea bass (<i>Dicentrarchus labrax</i>): Effect of high rearing temperature on their expression in the gonads. |
| P35 | Nátalia Pires Vieira Morais de Faria, Brazil | Influence of carbamazepine in female brain gene expression: ex vivo and in vivo approaches in neotropical species <i>Astyanax lacustris</i> . |
| P36 | Martina Capriotti, Italy | Regulation of ecdysteroid biosynthetic pathway and neurotoxicity in plastic-eating superworms (<i>Zophobas morio</i>) exposed to weathered polystyrene. |
| P37 | Damiano Carbonari, Italy | HepG2 cells as model for occupational toxicology investigation: the case of PFOA. |
| P38 | Chiara Santoni, Italy | Probiotic Administration as a New Strategy to Mitigate the Negative Impact of BPA Exposure on Liver Lipid Metabolism in Zebrafish Females: An Integrated FTIR Imaging and Lipidomic Analysis. |

| Poster# | Author | Title |
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| P39 | Heather G. Marco, South Africa | Chemical models of binding: <i>Aedes aegypti</i> AKH and ACP – why cross-activation is not possible. |
| P40 | Valentine Goffette, France | Do rainbow trout adipocytes influence muscle cell growth in vitro? |
| P41 | Valentine Goffette, France | Investigating adipose-muscle tissue communication through a model of fat and lean rainbow trout lines. |
| P42 | Joanna Pacholska-Bogalska, Poland | Expression of insulin-like peptides in <i>Tenebrio molitor</i> L. tissues. |
| P43 | Isabel Navarro Alvarez, Spain | Morphofunctional comparison of fat deposits in rainbow trout (<i>Oncorhynchus mykiss</i>) and their relationship with the metabolism, health and quality of the fish. |
| P44 | Gabriel Pérez-Tierra, Spain | Impact of secondary bile acids on feed intake regulation in rainbow trout (<i>Oncorhynchus mykiss</i>). |
| P45 | Cristina Velasco Rubial, Spain | Tissue distribution of FGF19 and FGF21 in rainbow trout (<i>Oncorhynchus mykiss</i>) with implications for metabolic processes. |
| P46 | Encarnación Capilla, Spain | Establishment and characterization of a bone-derived cells primary culture from rainbow trout (<i>Oncorhynchus mykiss</i>). |
| P47 | Ayelén Melisa Blanco, Spain | Ontogenetic development of nutrient sensing mechanisms in the gastrointestinal tract of rainbow trout (<i>Oncorhynchus mykiss</i>). Impact of feeding a vegetable diet. |
| P48 | Shogo Moriwaki, Japan | RFamide-related peptide-producing neurons participate in the control of body temperature in mice. |
| P49 | Jessica Calo Rodríguez, Spain | Effect of sodium butyrate on fatty acid sensing mechanisms in two cell lines from rainbow trout proximal and distal intestine. |
| P50 | Rino Takeuchi, Japan | Potential involvement of Maj-gonadulin, an insulin-like peptide, in growth and metabolism in the kuruma prawn <i>Marsupenaeus japonicus</i> . |
| P51 | Andrej Boroš, Slovakia | The Adipokinetic hormone as a potential regulator of water metabolism in <i>Drosophila melanogaster</i> . |

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| | * Student presentations | LEGEND |
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