



Porto
9 -12th
September
2018
31ST CONGRESS
NEW EUROPEAN SOCIETY
FOR COMPARATIVE PHYSIOLOGY
AND BIOCHEMISTRY

Preliminary Program

Sunday 9th September 2018, CIIMAR Headquarters, Matosinhos

16.00|17.20 Welcome and Registration at CIIMAR

17.20|18.00 Welcome from the 31st ESCPB Local Organizing Committee Chairs, the Board of the European Society for Comparative Physiology and Biochemistry and CIIMAR President

18.00|18.45 Insights into the extraordinary asymmetrical specialization of flatfish. - *Prof. Deborah Power*

18.45|21.00 Social Reception

Monday 10th September 2018, Sheraton Porto Hotel

08.30 Registration

09.00|09.20 Opening Session Lecture – Parallel Sessions

Session 1 Endocrine Disruption – Room A

Early embryo development in *mytilus galloprovincialis*: an emerging model for the development of adverse outcome pathways of endocrine disruptors. - *Teresa Balbi; Angelica Miglioli; Remi Dumollard; Silvia Franzellitti; Elena Fabbri; Laura Canesi*

09.20|10.00 Oral Communications – Room A – Session 1

- 17 α -ethynilestradiol and tributyltin mixtures modulates the expression of ner and p53 dna repair pathways in male zebrafish gonads and disrupt offspring embryonic development. - *Joana Soares; Teresa Neuparth; Angeliki Lyssimachou; Daniela Lima; Ana André; Maria A. Reis-Henriques; Luís Filipe C. Castro; António Paulo Carvalho; Nuno M. Monteiro; Miguel M. Santos*
- DEHP induce kidney and liver damage in rats. - *Duygu Aydemir; Gözde Karabulut; Gülsu Şimşek; Nurhayat Barlas; Nuriye Nuray Ulusu*
- Trophic transfer of copper and its direct and indirect toxic effects on phytoplankton and oyster spat. - *Nathalie Coquillé, Sabine Stachowski Haberkorn, Rossana Sussarellu, Julien Rouxel, Patrice Gonzalez, Alexia Legeay, Delmonteil Mathis, Tiphaine Chouvelon, Rozuel Emmanuelle, Jean-Louis Gonzalez, Farida Akcha*

09.00|09.20 Opening Session Lecture – Parallel Sessions

Session 2 Comparative Physiology and Aquaculture – Room B

Sea Lamprey as a model organism. Insights from ion regulation. - *Wilson, JM, Ferreira-Martins D, Doherty J Wilfrid Laurier University*

09.20 | 10.00 Oral Communications – Room B – Session 2

- Defatted tenebrio molitor meal as a fishmeal replacement in diets for european seabass (*dicentrarchus labrax*) juveniles. - *Ana Basto; Elisabete Matos; Luisa M. P. Valente*
- Photoperiod affects growth performance and skeletal muscle protein accumulation in reared atlantic salmon. *Salmo salar* L. - *Liudmila Lysenko; Nadezhda Kantserova; Ekaterina Tushina; Maria Churova, Nina Nemova*
- Retracing the evolution of long-chain polyunsaturated fatty acids biosynthesis in vertebrates. - *Mónica Lopes-Marques; Naoki Kabeya; Yu Qian; Raquel F. Ruivo; Miguel Santos; Byrappa Venkatesh; Douglas R. Tocher; L. Filipe C. Castro; Oscar Monroig*
- Different times of supplementation with methionine and threonine alter long-term antioxidant capability and energy allocation of rainbow trout under increased water temperature. - *Andreia Rodrigues*

10.15 | 10.45 Coffee break

10.45 | 11.30 Obesogens beyond vertebrates. Disruption of storage lipids in the crustacean *Daphnia magna*. - *Dr. Carlos Barata* – Room A

11.30 | 11.50 Opening Session Lecture – Parallel Session

Session 3 From Small Molecules To Big Problems Nanomaterials, Microplastics And Compounds Of Emerging Concern (Parallel) – Room A

Microplastics as vehicles of environmental pahs to marine organisms: combined chemical and physical hazards to the mediterranean mussels, *mytilus galloprovincialis*. - *Lucia Pittura; Carlo Giacomo Avio; Maria Elisa Giuliani; Giuseppe D'errico; Maria Elisabetta Michelangeli; Steffen H. Keiter; Bettie Cormier; Stefania Gorbi; Francesco Regoli Università Politecnica delle Marche*

11.50 | 12.30 Oral Communications – Room A – Session 3

- Effect of nceo2 on immune and antioxidant responses in *mytilus galloprovincialis* from molecular to tissue level. - *Manon Auguste; Teresa Balbi; Michele Montagna; Rita Fabbri; Julian Blasco; Laura Canesi*
- The influence of salinity on the effects of multi-walled carbon nanotubes on polychaetes. - *Lucia De Marchi; Victor Neto; Carlo Pretti; Etelvina Figueira; Federica Chiellini; Andrea Morelli; Amadeu M.V.M. Soares; Rosa Freitas*
- Are the impacts of carbon nanotubes enhanced in *Mytilus galloprovincialis* submitted to air exposure? – *Madelena Andrade; Lucia De Marchi, Amadeu M.V.M. Soares; Rui J.M.Rocha; Etelvina Figueira; Rosa Freitas; Carlo Pretti; Federica Chiellini; Andrea Morelli*

11.30|11.50 Opening Session Lecture – Parallel Session

Session 4 Comparative Physiology Under Omics Revolution/Oceans & Human Health – Room B

Modelling the chemical defense networks - a comparative dynamic visualisation of the involved genes and interactions in two fish species and humans. - *Marta Eide; Xiaokang Zhang; Odd André Karlsen; Eileen Marie Hanna; Nello Blaser; Pål Puntervoll; Inge Jonassen; Anders Goksøyr*

11.50|12.30 Oral Communications – Room B – Session 4

- Chloroplasts sequestered by the sacoglossan sea slug *Elysia viridis* preserve original lipidome of plastid membranes. - *Felisa Rey; Elisabete Da Costa; Ana M. Campos; Paulo Cartaxana; Elisabete Maciel; Pedro Domingues; M. Rosário M. Domingues; Ricardo Calado; Sónia Cruz*
- Genomics of adaptation. - *Agostinho Antunes*
- Insights into the biological role of ovothiol in sea urchins and diatoms. - *Alfonsina Milito; Immacolata Castellano; Ida Orefice; Christophe Brunet; Maria Ina Arnone; Anna Palumbo*
- Exploring deep-sea microorganisms for bioremediation applications. - *Ana P. Mucha, Filipa Santos, Mariana Aparício, Francisco Ferreira, C. Marisa R. Almeida, Maria F. Carvalho*

12.30|14.00 Lunch

14.00|14.45 Essential fatty acids in aquatic animals: Biosynthesis and implications for aquaculture - *Dr. Óscar Monroig*

14.45|16.00 Oral Communications – Parallel Session

Session 5 - Life Under Pressure Physiological and Toxicological Implications – Room A

- Coordinated multibiomarker responses of a marine invertebrate to environmental contamination. - *Isabel Oliveira Abreu; Catarina Monteiro; A Cristina S Rocha; M A Reis-Henriques; Catarina Teixeira; Maria Clara Pires Basto^{1,2}; Marta Ferreira; C Marisa R Almeida; Luís Oliva-Teles; Laura Guimarães*
- Microevolution of aquatic ecosystem in waterase river, a 100-years heavy metal contamination. - *Shosaku Kashiwada; Hisato Takeuchi; Yuichi Iwasaki; Hiroki Higashibata; Seiji Nagasaka; Masaki Sakamoto; Nobumitsu Miyanishi; Hirobumi Yamamoto; Haruki Tatsuta; Mikihisa Umehara*
- Cellular and molecular mechanisms of metal-induced olfactory neurobehavioral injury. - *Evan Gallagher; Chase Williams; Richard Ramsden; Margaret Mills; Eva Ma; Kevin Heffern*



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14.45 | 16.00 Oral Communications – Parallel Session

Session 6 Climate Changes and Anthropogenic Stressors – Room B

- Toxicity of diclofenac and triclosan on the mussel *mytilus galloprovincialis* under different temperature and salinity conditions. - *Rui Costa; Francesca Coppola; Silvana Costa; Montserrat Sole; Rosa Freitas*
- Anthropogenic stressors by mean of ocean acidification and food frauds on edible mussels species. - *Sara Fioretti; Tzu Yen Liu; Francesco Paolo Patti; Yung-Che Tseng*
- Impact of multiple stressors on the proteome of *c. Angulata* and *c. Gigas*. - *Anthony Moreira; Etelvina Figueira; Amadeu Soares; Rosa Freitas; Maria João Bebbiano*
- Non-additive effects of hydrometeorological stressors acting on natural systems. - *Irene Martins; Ester Dias; Martina Ilari; Francisco Campuzano; Lígia Pinto; Miguel Santos; Carlos Antunes*

16.00 | 17.30 Coffee break & Poster Session

Poster Session 1 – From Small Molecules to Big Problems Nanomaterials, Microplastics And Compounds Of Emerging Concern / Endocrine Disruptors PO1 – PO28

Poster Session 2 – Life Under Pressure Physiological and Toxicological Implications / - Lipid Homeostasis and Obesogens PO29 – PO40

Tuesday 11th September 2018, Sheraton Porto Hotel

09.00 | 09.20 Opening Session Lecture – Parallel Sessions

Session 7 Comparative Physiology and Biomarkers (parallel) – Room A

Insights into developmental programming revealed by corticosteroid receptor knockouts in zebrafish. - *Erin Faught; Matt Vijayan University of Calgary*

09.20 | 10.00 Oral Communications – Room A – Session 7

- Effects of zinc exposure on life history traits and oxidative stress in native and invasive brine shrimps. - *Antónia Juliana Pais-Costa; Inmaculada Varó2; Mónica Martinez-Haro; Pedro Almeida Vinagre; Marta Isabel Sanchez*
- Different environmental adaptation of japanese dace *tribolodon hakonensis* to heavy metals. - *Hisato Takeuchi; Daiki Kitamura; Yumie Kato; Chisato Kataoka; Yuichi Iwasaki; Seiji Nagasaka; Haruki Tatsuta; Shosaku Kashiwada*
- Biomarkers assessment in male gonads of *carcinus maenas*: detecting effects of environmental contamination in feral populations. - *Carlos Pinheiro; Isabel Abreu; Catarina Monteiro; Aurélie Rodrigues; Teresa Neuparth; Teresa Oliva-Teles; Cristina Delerue-Matos; Luís Oliva-Teles; Laura Guimarães*

- Transcription levels of genes related to gamete development and hormonal signalling in mussels *Mytilus galloprovincialis* (L.) along the reproductive cycle. - *Shaker MI Khalil, Miren P Cajaraville and Maren Ortiz-Zarragoitia*

10.00|10.30 Coffee-Break

10.30|11.20 Oral Communications – Room A – Session 7

- The influence of arsenic on the toxicity of carbon nanoparticles in bivalves. - *Rosa Freitas; Francesca Coppola; Lucia Di Marchi; Valeria Codella; Carlos Pretti; Federica Chiellini; Andrea Morelli; Amadeu Soares; Etelvina Figueira*
- Monitoring the effects of environmental contamination and abiotic variation using a multi-biomarker approach: a case study with autochthone invertebrates of the nw portuguese coast. - *Joana Costa; Luis Vieira; Diana Melo; Ana Rebelo; Lúcia Guilhermino*
- Long-term effects of two highly prescribed antidepressants on the mitochondrial function of raphidocelis subcapitata. - *Uirá Oliveira; Madalena Morais; Paula Paíga; Cristina Delerue-Matos; Sonia Figueiredo; Laura Guimarães*
- Involvement of different protein thiol groups in cadmium toxicity on hemoproteins. - *Patrick Orlando; Sonia Silvestri; Ilenia Cirilli; Fabio Marcheggiani; Giancarlo Falcioni; Luca Tiano*

09.00|09.20 Opening Session Lecture – Parallel Session

Session 8 Climate Changes and Anthropogenic Stressors – Room B

Transcriptional responses of the heat shock gene hsp70 to thermal stress in shallow-water corals: the influence of physiological plasticity and life history traits. - *Silvia Franzellitti¹; Valentina Airi; Davide Poli; Diana Calbucci; Erik Caroselli; Fiorella Prada; Christian R. Voolstra; Tali Mass; Giuseppe Falini; Elena Fabbri; Stefano Goffredo*

09.20|10.00 Oral Communications – Room B – Session 8

- Toxic impacts of diclofenac and triclosan in the clams *ruditapes philippinarum* and *ruditapes decussatus* under different climate change scenarios. - *Silvana Costa¹; Rui Costa¹; Rosa Freitas¹; Montserrat Solé*
- Interactive effects of contamination and trematode infection in cockles biochemical performance. - *Luísa Magalhães^{1,2}; Xavier De Montaudouin²; Etelvina Figueira¹; Rosa Freitas*
- Pharmaceutical drugs under an ocean acidification scenario: the biochemical and transcriptomic effects on the clam *ruditapes philippinarum*. - *Ângela Almeida; Rosa Freitas; Vânia Calisto; Valdemar I. Esteves; Rudolf J. Schneider; Amadeu M. V. M. Soares; Etelvina Figueira; Bruno Campos; Carlos Barata*

10.00|10.30 Coffee break

10.30|11.20 Oral Communications – Room B – Session 8

- Physiological, biochemical and behavior responses of polychaetes to contaminated sediments by trace elements: the influence of temperature increase and sediment granulometry. - *Adília Pires; Rosa Freitas; Carla Patinha; Eduardo Ferreira Da Silva; Etelevina Figueira*
- Physiological stress responses in relation to developmental instability, physicochemical conditions and contaminants burden in tilapia species from ogun river, Nigeria. - *Oju Ibor; Aina Adeogun; Augustine Arukwe; Oju Richard Ibor*
- Female and male sea urchins: what differences when coping with ocean acidification? - *Tihana Marceta; Silvia Alban; Mohamad Sofi Abu Hassan; Nik Nurasyikin Nik Mohmmad Azmi; Maria Gabriella Marin*
- Enrichment of gadolinium in aquatic systems and the biochemical effects in mussels *mytilus galloprovincialis*. - *Bruno Henriques; Francesca Coppola; Rui Monteiro; Rosa Freitas; Eduarda Pereira*

11.20|11.40 Opening Session Lecture – Parallel Session

Session 9 Lipid Homeostasis and Obesogens – Room A

Fingerprinting the effects of plastic additives in the lipids of plhc-1 topminnow liver cells. - *Elisabet Pérez-Albaladejo; Alejandra Solís; Ilaria Bani; Anna Marqueño; Cinta Porte*

11.40|12.30 Oral Communications – Room A – Session 9

- Fibroblast growth factor 19 regulates skeletal muscle mass and ameliorates muscle wasting in mice; *Martina Castelli¹; Emmanuelle Meugnier²; Bérengère Benoit¹; Stéphanie Chanon²; Aurélie Vieille-Marchiset²; Christine Durand²; Nadia Bendridi²; Sandra Pesenti²; Pierre-Axel Monternier²; Anne-Cécile Durieux³; Damien Freyssenet³; Jennifer Rieusset²; Etienne Lefai²; Hubert Vidal²; Jérôme Ruzzin*
- Fatty acids and methylmercury influence adipocyte differentiation and lipid metabolism in rainbow trout (*oncorhynchus mykiss*). *Gilles Tinant¹; Ineke Neefs¹; Alice De Groot¹; Jean-François Rees¹; Yvan Larondelle¹; Cathy Debier*

11.20|11.40 - Oral Communications – Room B– Session 10

Session 10 Comparative Physiology and Aquaculture – Room B

- Muscle-specific gene expression and metabolic enzymes activities in atlantic salmon *salmo salar* L. Reared under different photoperiod regimes. - *Maria Churova; Natalia Shulgina; Nina Nemova*

- Ppars in the amazon teleost colossoma macropomum: from genes to nutrition. - *Renato Ferraz; André Machado; Mônica Marques; Ana Lúcia Salaro; Ricardo Oliveira; Rodrigo Ozório; Filipe Castro*
- Specific toxicity of halomicronema metazoicum (cyanoprokaryota, cyanophyta) exudates and their ecologic and biotechnologic potential. - *Mirko Mutalipassi; Valerio Mazzella; Nadia Ruocco; Antonino Pollio; Valerio Zupo*
- Microalgal polysaccharide extracts and the immune response and microbiome of Senegalese sole (*Solea senegalensis*) gut - *Patrícia Pinto; Carlos Carballo; Ana Patricia Mateus; Juan Martinez-Blanch; Francisco Codoner; Lalia Mantecon; Manuel Manchado; Deborah Power*
- Effects of dihydroquercetin and arabinogalactan as a dietary supplement on growth performance, intracellular proteases activities and muscle-specific gene expression in rainbow trout (*Oncorhynchus mykiss*). - *Nadezhda Kantserova*

12.30|14.00 Lunch

14.00|14.45 Key Lecture Bioaccumulation and biological effects of micro and nanoplastics in the marine environment. - *Prof. Tamara Galloway*

14.45|15.05 Opening Session Lecture – Parallel Session

Session 11 Life Under Pressure Physiological and Toxicological Implications – Room A

Holobiont: interaction between terrestrial isopods and their hepatopancreas' microbiome. - *Nuno Ferreira; Luis Cunha; Elmer Swat; Giuseppe Montesanto; Tim Goodal; Laura Guimarães; Dave Spurgeon; Claus Svendsen; Peter Kille*

15.05|16.00 Oral Communications – Room A – Session 11

- Evaluation of physiological stress in mediterranean rehabilitating loggerhead sea turtles using an immune response-based approach. - *Ilaria Caliani; Letizia Poggioni; Antonella D'agostino; Maria Cristina Fossi; Silvia Casini*
- Toxicological effects of commercial fungicides on the earthworm *eisenia fetida* (savigny, 1826): laboratory and field investigations. - *Tommaso Campani; Ilaria Caliani; Chiara Pozzuoli; Letizia Poggioni; Silvia Casini*
- A comprehensive study on the effects of fipronil in the marine teleost *dicentrarchus labrax* under two temperature regimes. - *Mercedes Blazquez; Sara Dallares; Priscila Dourado; Ignasi Sanahuja; Antoni Ibarz; Evaristo Mañanós; Montserrat Sole*
- Development and application of an integrated nondestructive protocol for ecotoxicological assessment of *caretta caretta* (linnaeus, 1758). - *Silvia Casini; Ilaria Caliani; Matteo Giannetti; Letizia Marsili; Silvia Maltese; Daniele Coppola; Nicola Bianchi; Tommaso Campani; Stefania Ancora; Maria Cristina Fossi*



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14.45 | 15.05 Opening Session Lecture – Parallel Session

Session 12 - From Small Molecules to Big Problems Nanomaterials, Microplastics And Compounds of Emerging Concern – Room B

A transcriptomic study of the digestive gland of mussels *mytilus galloprovincialis* dietarily exposed to pvp/pei coated silver nanoparticles at different seasons. - *Nerea Duroudier; Pablo Markaide; Eider Bilbao; Miren P Cajaraville Universidad del País Vasco*

15.05 | 16.00 Oral Communications – Room B – Session 12

- Addressing the histopathological effects of short-term exposure to tio2 nanoparticles in fish gills: an ex vivo approach. - *Cláudia Mieiro; Mattia Alves Da Silva; João Pedro Coelho3; António Alves Da Silva; Joana Alves; Eduarda Pereira; Miguel Pardal; Maria Helena Costa; Mário Pacheco; Marta Martins*
- Effects of a mixture of glyphosate and aminomethylphosphonic acid on haemocyte parameters of the mussel *mytilus galloprovincialis*. - *Valerio Matozzo; Maria Gabriella Marin; Luciano Masiero; Marco Munari*
- Effects of glyphosate on haemocyte parameters of the clam *ruditapes philippinarum*. - *Valerio Matozzo; Marco Munari; Carlo Zampieri; Maria Gabriella Marin*
- Microplastics in air: pathophysiology of their impacts on human health. - *Joana Prata*

16.00 | 17.30 Coffee Break & Poster Session

Poster Session 3 - Climate Changes and Anthropogenic Stressors / Oceans & Human Health – PO41 – PO46

Poster Session 4 - Comparative Physiology and Aquaculture/Comparative Physiology and Biomarkers / Comparative Physiology Under the Omics Revolution PO47 – PO80

18.00 Douro Cruise and Congress Dinner at Calem Wine Cellares (optional)

Wednesday 12th September 2018, Sheraton Porto Hotel

09.00 | 09.20 Opening Session Lecture – Parallel Session

Session 13 Endocrine Disruption – Room A

Genome-wide molecular ecotoxicological studies with four rotifer *Brachionus* spp. - *Jae-Seong Lee*

09:20 | 10.00 Oral Communications – Room A – Session 13

- Effects of butylparaben on the liver and kidney. - *Duygu Aydemir; Burcu Öztaşçı; Nurhayat Barlas; Nuray Ulusu*

- Warming modulates the effects of the endocrine disruptor progestin levonorgestrel on the zebrafish fitness, ovary maturation kinetics and reproduction success. - *Patricia Cardoso; Daniela Rodrigues; Tânia Madureira; Nádía Oliveira; Maria João Rocha; Eduardo Rocha*
- In vitro evaluation of potential oestrogenic compounds on oestrogen receptors of european sea bass, *dicentrarchus labrax* (L.). - *Catarina Moreira; Cinta Zapater; Patrícia Pinto; Thomas Knigge; Tiphaine Monsinjon*

10.00|10.30 Coffee Break

10.30|11.10 Oral Communications

Session 14- Climate Changes and Anthropogenic Stressors – Room A

- Monitoring anthropogenic stressors and their impact on wild bird preservation. - *Andreia Garcês; Isabel Pires; Fernando Pacheco; Luis Sanches Fernandes; Vanessa Soeiro; Sara Lóio; Justina Prada; Rui Cortes; Felisbina Queiroga*
- Implication of anthropogenic stressors in the mortality of endangered species: a 10-year study in northern Portugal. - *Andreia Garcês; Felisbina Queiroga; Fernando Pacheco; Luís Sanches Fernandes; Vanessa Soeiro; Sara Lóio; Justina Prada; Isabel Pires*
- Hazard Assessment of Endocrine Disrupting Chemicals: Filling the gaps. - *Santos, M.M, Ruivo, R, Capitão, A, Fonseca, E, Castro, L.F.C*

11.10|11.30 Opening Session Lecture – Parallel Session

**Session 15 Life Under Pressure Physiological and Toxicological Implications (parallel)
– Room A**

Baby cuttlefish and crabs on antidepressants: still playing hide-and seek? Effects on camouflage and colour change. - *Apolline Chabenat; Cécile Bellanger; Thomas Knigge*

11.30|12.30 Oral Communications – Room A – Session 15

- The downside of lighter bones: cetacean adaptations in the anthropocene. - *Raquel Ruivo; Sandra I. Vieira; Mónica Lopes-Marques; Rogério P. Pirraco; Bárbara M. Sousa; Susana Barbosa; Rui L. Reis; Miguel M. Santos; L. Filipe Castro*
- Mercury accumulation in fish from the wild and aquaculture ponds. - *Valerio Zupo; Gunnar Graber; Samal Kamel; Veronika Plichta; Claudia Gundacker; Karl Wittmann*

11.10|11.30 Opening Session Lecture – Parallel Session

Session 16 From Small Molecules to Big Problems Nanomaterials, Microplastics And Compounds of Emerging Concern – Room B

Will the dietary uptake of microplastics negatively affect the use of a. Franciscana as live feed for aquaculture? - *Diogo Peixoto; João Amorim; Renato De Medeiros Rocha; Luís Oliva-Teles; Lúcia Guilhermino; Maria Natividade Vieira*

11.30|12.30 Oral Communications – Room B – Session 16

- A novel gr substrate analogue. - *Duygu Aydemir; Mahshid Hashemkhani; Havva Yagci Acar; Nuriye Nuray Ulusu*
- Circadian clocks across multiple tissues from turbot. - *Mauro Chivite; Fatemeh Naderi; Marcos A. López-Patiño; Jesús M. Míguez; Rosa M. Ceinos*
- Influence of pdms on the cells nutrient consumption in vitro. - *Duygu Aydemir; Sedat Doğru; Gülsu Şimşek; Erdem Alaca; Nuriye Nuray Ulusu*

12.30|14.00 Lunch

14.00|14.20 Opening Session Lecture

Session 17 From Small Molecules To Big Problems Nanomaterials, Microplastics And Compounds Of Emerging Concern – Room A

Internalization and toxicity of graphene nanomaterials using an in vitro approach. - *Alberto Katsumiti; Greta Nicolussi; Radmila Tomovska; Andrew Thorley; Teresa D Tetley; Miren P Cajaraville.*

14.20|16.00 Oral Communications – Room A – Session 17

- Comparative effects of the impact of in vivo and in vitro exposure of human cells and marine organisms to tamoxifen. - *Tainá Fonseca; Tânia Carriço1 Elna Fernandes; Nélia Mestre; Denis Moledo Abessa; Maria João Bebianno; Álvaro Tavares*
- Impact of chronic exposure to environmentally relevant concentrations of simvastatin in zebrafish brain function. - *Susana Barros; Miguel M. Santos; Teresa Neuparth*
- Fish on effexor®: embryotoxicity and molecular alterations of venlafaxine in zebrafish (danio rerio). - *Pedro Rodrigues; Marta Ferreira; Laura Guimarães*
- Effects of microplastics-antimicrobial mixtures in corbicula flumínea. - *Lúcia Guilhermino; Luis R. Vieira; Diogo Ribeiro; Ana Tavares; Vera Cardoso; Anabela Alves; José M. Almeida*
- Cyanobacteria and Cyanotoxins in Portugal. - *Cristiana Moreira, Vitor Vasconcelos, Agostinho Antunes*

16.00 Closing Ceremony