PROGRAMME

DAY 1

		ADATI		
	08:30 09:15	REGISTRATION GIA WELCOME WELCOME SPEECHES Dean of the Faculty of Sciences, Head of the Biology School		
	09:45	(Aristotle University of Thessaloniki) PLENARY: PROF LUCA BARGELLONI Coffee break		
		Session 1: Stress and immune response I	Chairs: Alexandro Roberta Marcoli	IS
	11:00	The molecular and cellular repertoires of a teleost tongue – insights into the interplay of gustation and immunity	Carlo Lazado	١
Wed	11:15	Genomic basis of the variation in sea lice susceptibility among Atlantic salmon and coho salmon revealed by single-nuclei RNA sequencing	Sarah Salisbury	ר ו
09:45- 13:00	11:30	Use of transcriptomics and gene editing to explore genetic mechanisms giving species-specific host-resistance to sea lice	Nick Robinson	١
	11:45	Immunoglobulin sequencing provides new insight in B cells biology of salmonid fish	Aleksei Krasnov	١
	12:00	Conserved and divergent arms of the antiviral response in the duplicated genomes of salmonid fishes	Thomas Clark	l
	12:15	Microbiome responses to aquaculture-related husbandry practices	Arun Shankregowda	S
	12:30	Host-microbiota cross-talk upon gut parasite infection in gilthead seabream	Socorro Toxqui- Rodriguez	I
	12:45	Chromatin accessibility in gill tissue identifies candidate genes and loci associated with aquaculture relevant traits in tilapia	Tarang Mehta	E
		Lunch break		
		Session 2: Stress and immune response II	Chairs: Costas Tsi Lorenzo Colona	ge
	14:30	Impact of the incorporation of functional annotation into genomic prediction in a turbot population challenged with <i>Philasterides dicentrarchi</i>	Christina Kriaridou	ר ו
	14:45	Functional genomic architecture of viral nervous necrosis disease resistance in farmed European seabass	Robert Mukiibi	ר ו
Wed 14:30- 16:00	15:00	Transcriptomic approach to characterize gene expression in mussel (<i>Mytilus galloprovincialis</i>) gills and hemocytes from the hemolymph or the intervalvar liquid	Magalí Rey- Campos	I
	15:15	The genomic basis of the effective immune response of mussels	Amaro Saco	I
	15:30	Validation of a genomic region associated with bonamiosis status in flat oyster populations at individual level	Inés Sambade	ן פ (
	15:45	Single nuclei RNA-sequencing of WSSV-infected whiteleg shrimp (<i>Litopenaeus vannamei</i>) reveals novel genes involved in white spot infection	Alexandra Florea	ר ו
	16:00	Low metabolism activity and efficient antiviral response	Léo Duperret	I



s Triantafyllidis &

Carlo Lazado	Nofima
Sarah Salisbury	The Roslin Institute
Nick Robinson	Nofima
Aleksei Krasnov	Nofima
Thomas Clark	University of Aberdeen
Arun Shankregowda	Swansea University
Socorro Toxqui- Rodriguez	IATS-CSIC
Tarang Mehta	Earlham Institute

genopoulos &

Christina Kriaridou	The Roslin Institute
Robert Mukiibi	The Roslin Institute
Magalí Rey- Campos	IIM-CSIC
Amaro Saco	IIM-CSIC
Inés Sambade	University of Santiago de Compostela
Alexandra Florea	The Roslin Institute
Léo Duperret	Ifremer

		enable to counteract the pacific oyster mortality syndrome in non-permissive conditions induced by the temperature		
	46.45	Signatures of selection for tolerance and resistance to		University of
	16:15	<i>Perkinsus olseni</i> in grooved carpet shell clam (<i>Ruditapes decussatus</i>) using population genomics	João Estêvão	Santiago de Compostela
Wed		decussion of the population genomies		composicia
16:30-		POSTER SESSION		
18:30				
		(DAV 2		

VDAY 2

09:45 PLENARY: PROF ZE-XIA GAO

Coffee break

		COTTEE DIEdk		
		Session 3: Reproduction and breeding I	Chairs: Roberto d Elisavet Kaitetzid	
	11:00	Applications of genomic selection for complex economic traits in large yellow croaker	Peng Xu	Xiamen University
	11:15	Epigenetic regulation of genetic sex determination of channel catfish explains sex ratio variations with high temperature	John Liu	Tennessee Tech University
	11:30	High-throughput screening of the first chromosome-level genome assembly of <i>Merluccius merluccius</i> suggests a sex determining gene underlying a XX/XY system	Paulino Martínez	University of Santiago de Compostela
Thu 09:45- 13:00	11:45	Characterisation of olfactory transcriptome in Senegalese sole (<i>Solea senegalensis</i>) at the single-cell level: functional implications in reproduction	Dorinda Torres	University of Santiago de Compostela
	12:00	miRNA phenotypic target identification reveals hippo pathway-mediated regulation of reproduction by miR-202	Julien Bobe	INRAE
	12:15	Genomic regions associated with variable sperm motility across the reproductive season in Artic charr	Khrystyna Kurta	Swedish University of Agricultural Sciences
	12:30	Deciphering the sperm methylation landscape of Swedish Arctic charr with regard to male-fertility traits	Fotis Pappas	Swedish University of Agricultural Sciences
	12:45	Unravelling sex-dependent epigenetics mechanisms in response to environmental cues	Laia Ribas	ICM-CSIC
		Lunch break		
		Session 4: Development and early life interventions	Chairs: Laia Ribas Moulistanos	& Aristotelis
	14:30	SALMOCODE: A single-cell atlas of Atlantic salmon organogenesis	Christiaan Henkel	Norwegian University of Life Sciences
Thu 14:30-	14:45	Epigenomics of embryogenesis in the turbot (<i>Scophthalmus maximus</i>)	Oscar Aramburu	University of Santiago de Compostela
17:30	15:00	DNA methylation during early development in diploid and triploid European seabass	Francesc Piferrer	ICM-CSIC
	15:15	Integration of multi-omics data to uncover key genes and metabolic pathways involved in flatfish metamorphosis.	Laura Guerrero- Peña	IIM-CSIC
	15:30	Improving Atlantic salmon health and welfare by	Erik Burgerhout	Nofima

		embryonic temperature programming		
	15:45	Correlation between epigenetic and transcriptomic changes in golden barramundi (<i>Lates calcarifer</i>): a multiomic approach	Roberta Marcoli	James Cook University
		Coffee break		
		Session 5: Structural genomics and population genetics	Chairs: Efthimia A Maria Papadaki	antonopoulou &
	16:30	The giant clam genome sequence analysis help elucidate the evolution of photosymbiosis	Yang Zhang	South China Sea Institute of Oceanology
	16:45	First insights into genetic differentiation among sympatric morphs of arctic charr based on whole-genome sequencing	Khrystyna Kurta	Swedish University of Agricultural Sciences
	17:00	Unveiling genomic signatures for domestication in European seabass (<i>Dicentrarchus labrax</i> L.)	Aristotelis Moulistanos	Aristotle University of Thessaloniki
	17:15	Mitochondrial function is at the frontline of domestication in Eurasian perch (<i>Perca fluviatilis</i>)	Daniel Żarski	Polish Academy of Sciences
Thu 19:30- 23:30		GALA DINNER		

👷 DAY 3

	09:45	PLENARY: PROF WES WARREN		
		Coffee break		
		Session 6: Nutrition, growth and pigmentation	Chairs: Carla Piazz Panteli	zon & Nikolas
	11:00	Transcriptomic adaptation to salinity in Mozambique tilapia takes shorter time than in Nile tilapia	Avner Cnaani	Volcani Institute
	11:15	Candidate list of biological age markers for welfare auditing in farmed gilthead sea bream	Alvaro Belenguer	IATS-CSIC
	11:30	A la cart(e) genome-editing for enhanced feeding behavior in Nile tilapia	Jakob Biran	Volcani Institute
Fri 09:45-	11:45	Early life feeding effects on Nile tilapia gut microbiome and transcriptome	Fotini Kokou	Wageningen University
13:00	12:00	GWAS and accuracy of prediction for growth in meagre <i>Argyrosomus regius</i>	Stavroula Oikonomou	HCMR
	12:15	Identification of SNPs and candidate genes associated with growth using GWAS and transcriptome analysis in <i>Coilia nasus</i>	Yue Yu	Huazhong Agriculture University
	12:30	Utilizing pool-seq to identify the gene controlling black patches pigmentation in ornamental carp (koi)	Roni Tadmor	The Hebrew University of Jerusalem
	12:45	Genome survey for processes susceptible to manipulation through DNA methylation remodelling in gilthead sea bream	Erick Perera	ICMAN-CSIC
		Lunch break		

Fri 14:30-

EXCURSION TO VERGINA

23:30

POSTER PRESENTATIONS

Title	Presenting author	Institution
P1- Identification of SNPs and candidate genes associate with growth performance in all-female mandarin fish (<i>Siniperca chuatsi</i>) by a genome-wide association study	Dingrui Liu	Sun yat-sen University
P2 - Isolation and molecular detection of virulence and antimicrobial resistance genes of pathogenic <i>Escherichia coli</i> isolated from farm raised carps of fish farms of Kasur and Muzaffargarh	Talib Hussain	University of Education Lahore
P3- Deciphering the IGH locus of gilthead seabream	Carla Piazzon	IATS-CSIC
P4- Nutrition and immune function in farmed fish regulation of inflammatory and anti-inflammatory responses	Asma Abushweka	University of Aberdeen
P5 - Different sampling approaches for DNA metabarcoding analysis of the stomach contents of the Atlantic bluefin tuna (<i>Thunnus thynnus</i> Linnaeus, 1758)	Luka Žuvić	IZOR
P6- Influence of 3'UTR variants on germ cell-specific gene expression in Atlantic salmon	Silja Gulliksen	Mowi Genetics
P7- Mussel antiviral transcriptome response and elimination of viral haemorrhagic septicaemia virus (VHSV)	Amaro Saco	IIM-CSIC
P8 - Transcriptomic analysis of turbot (<i>Scophthalmus maximus</i>) treated with zymosan a reveals that IncRNAs and inflammation-related genes mediate the protection conferred by β -glucans against <i>Aeromonas salmonicida</i>	Alejandro Romero	IIM-CSIC
P9 - Genetic structure of native and translocated freshwater crayfish <i>Pontastacus leptodactylus</i> populations from Greece and turkey	Maria Alvanou	University of Western Macedonia
P10 - Dissecting the genetic basis underlying response against salmonid alphavirus in Atlantic salmon	Domniki Manousi	Norwegian University of Life Sciences
P11 - Molecular and physiological responses to chronic stress in European sea bass, <i>Dicentrarchus labrax</i>	Athanasios Samaras	University of Crete
P12- Can Atlantic bluefin tuna be efficiently switched from small pelagic fish to pellet feed under farming conditions?	Ivana Buselic	IZOR
P13 - Divergent evolutionary paths and ontogenic regulation of proteases in the genome of European sea bass (<i>Dicentrarchus labrax</i>)	Rafael Angelakopoulos	University of Thessaly
P14- Serotype variation and genomic characterization of streptococcus agalactiae strains isolated from Nile tilapia	Renan Appel	Nord University
P15- Should we rear tilapia larvae in the dark?	Nikko Cabillon	Hebrew University of Jerusalem
P16 - Combined quantitative and population genetics methods provide insight into the genetic landscape of fillet fat in European sea bass <i>Dicentrarchus labrax</i>	Stavroula Oikonomou	HCMR
P17 - Comparison of tendon tissue differentiation between zebrafish and medaka by single-cell sequencing	Yu Long Chen	Huazhong Agricultural University
P18 - Early life programming and molecular regulation of the stress response in greater amberjack (<i>Seriola dumerili</i>) larvae	Athanasios Samaras	University of Crete
P19- Genetic analysis of growth traits in fugu, Takifugu rubripes	Clémence Fraslin	The Roslin Institute
P20 - Evolutionary dynamics of paralogous genes in oxidative phosphorylation and ontogenetic regulation in gilthead seabream (<i>Sparus aurata</i>)	Andreas Tsipourlianos	University of Thessaly

P21 - Genetic resilience in the common cockle (<i>Cerastoderma edule</i>): contrasting natural selection and selective breeding for marteiliosis resistance	Marina Pampin Iglesias	University of Santiago de Compostela
P22 - Discriminating freshwater prawn populations in Benin: a comparative analysis of morphological traits and modelling approaches	Mahugnon Santoze Adido	Sokoine University of Agriculture
P23 - Applying a chromosome-scale assembly to explore population structure, metagenomics and evolution in the blue mussel (<i>Mytilus edulis</i>)	Tim Regan	The Roslin Institute
P24 - A heatwave event after hatching alters DNA methylation profile in rainbow trout (<i>Oncorhynchus mykiss</i>)	Ignacio Fernández	IEO-CSIC
P25 - Due to their improved immunity, disease resistant common carp fish are also less infective	Lior David	The Hebrew University of Jerusalem The Hebrew
P26- A new sex determining gene identified in striped bass	Evgeniya Marcos- Hadad	University of Jerusalem
P27 - Genetic analysis and development of sex-specific markers in populations of <i>Megalobrama amblycephala</i> based on whole-genome re-sequencing	Lifei Luo	Huazhong Agricultural University
P28 - Gene expression profiling of six6 and bcl6a in larva and juvenile stages in European seabass (<i>Dicentrarchus labrax</i> L.)	Aristotelis Moulistanos	Aristotle University of Thessaloniki
P29 - Using long-read sequencing with oxford nanopore to enable genomic and epigenomic profiling of livestock fish	Fernando Naya- Catala	IATS-CSIC
P30 - The expansion of sirtuin gene family in gilthead sea bream (<i>Sparus aurata</i>). Phylogenetic, syntenic and functional insights across the vertebrate/fish lineage	Fernando Naya- Catala	IATS-CSIC
P31- Differential expression of micro RNAs (miRNAs) in gonads of gilthead seabream <i>Sparus aurata</i>	Maria Papadaki	HCMR
P32 - Molecular identification of bacterial pathogens associated with diseases in aquaculture farms in the Philippines	Casiano Choresca	NFRDI
P33 - Understanding the genetic basis of pigmentation anomalies in flatfish	Daniel Costas Imbernón	IIM-CSIC
P34 - The effect of dietary <i>Rhodotorula mucilaginosa</i> on liver antioxidant gene expression of <i>Sparus aurata</i>	Emmanouil Malandrakis	Agricultural University of Athens
P35 - GRINNAQUA: green innovation strategies for animal health management: towards sustainable aquaculture	Sergio Fernández- Boo	CIIMAR
P36 - Developing molecular diagnostic tools for QX disease in oyster aquaculture	Jonathan Wanderley Lawley	Griffith University
P37 - Genetic identification of sturgeon populations from Ukraine using DNA markers	Olha Malysheva	The Leibniz Institute for Zoo and Wildlife Research
P38- Molecular characterization of breeders of Solea sengalensis	Laureana Rebordinos	University of Cádiz
P39 - A single heatwave event is able to disrupt spermatogenesis in rainbow trout (<i>Oncorhynchus mykiss</i>) breeders	Marta Riesco	University of León
P40 - A high-quality genome assembly of the Mediterranean mussel (<i>Mytilus galloprovincialis</i>) provides insights into mussel sex determination	Raquel Rodríguez- Vázquez	University of Santiago de Compostela
P41 - Single-cell transcriptome and epigenetic profiling of the pituitary gland provide insights into teleost puberty	Ioannis Konstantinidis	Nord University
P42- Skmer – genetic diversity metrics from genome skims for	Homère Alves	University of

broodstock selection	Monteiro	Copenhagen
P43 - Assessing the impact of insect meal on the intestinal bacterial microbiota of the Baltic shrimp <i>Palaemon adspersus</i>	Nikolas Panteli	Aristotle University of Thessaloniki
P44 - Study on the developmental characteristics and molecular regulatory mechanisms of different types of intermuscular bone in <i>Coilia nasus</i>	Shiming Wan	Huazhong Agricultural University
P45 - Transcriptome analysis reveals the impact of environmental toxicants on ovarian tissue of climbing perch (<i>Anabas testudienus</i>)	Kiran Rasal	ICAR
P46 - Exploring genetic diversity and hybridisation patterns of mussels in northern Scotland	Ambre Chapuis	The Roslin Institute
P47- Broodstock management influences the metabolic status, gene expression and epigenetic gene regulation in progeny	Kaja Skjærven	University of Bergen
P48- Gene expression profile of the cockle <i>Cerastoderma edule</i> in response to trematode infection	Simão Correia	CIIMAR
P49- Differential gene expression at different stages of gonadal development in male and female Senegalese sole (<i>Solea senegalensis</i>)	Roberto de la Herrán	University of Granada
P50- Genetic diversity of <i>Plesionika edwardsii</i> : a shrimp species with economic interest in the Alboran sea region	Francisca Robles	University of Granada
P51- Comparative analysis of gonads from wild and F1 cultivated adult males of Senegalese sole by scRNASeq	Carmelo Ruiz-Rejón	University of Granada
P52- Morphometrics in different genotypic classes of <i>Dicentrarchus labrax</i> two developmental stages (Linnaeus, 1758)	Aristotelis Moulistanos	Aristotle University of Thessaloniki