

4th UK & Ireland EAFP branches meeting

Weymouth, UK

Weymouth & Portland National Sailing Academy

14 – 15 September 2022



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Wednesday 14 September

08:45 – 09:15	Registration
09:15 – 09:30	Welcome & House keeping
09:30 – 10:00	Keynote presentation: Dave Hoole – Keele University MEETING FUTURE CHALLENGES IN FISH HEALTH: LESSONS FROM THE MEDICAL AND VETERINARY SECTORS
Regulations & Diagnostics (Chair: David Verner – Jeffreys)	
10:00 – 10:15	Chiara Bosco – Cefas REVIEW OF REGULATIONS RELATED TO NON-GOVERNMENT LABORATORIES AND RESEARCH INSTITUTES INVESTIGATING LISTED ANIMAL DISEASES
10:15 – 10:30	Emma Fletcher – Defra THE ROLE OF CONTINGENCY PLANNING IN MAINTAINING THE UK'S AQUATIC ANIMAL HEALTH STATUS
10:30 – 10:45	Mickael Teixeira Alves - Cefas RAPID RISK ASSESSMENT TOOL FOR EMERGING DISEASES
10:45 – 11:00	Andy Powel – Cefas SHELLFISH FOOD SAFETY AND ANIMAL HEALTH – A UNIFIED STRATEGY FOR DETECTING MULTIPLE BIOLOGICAL THREATS ON A SINGLE PLATFORM
11:00 – 11:15	Deborah Cheslett – Marine Institute, Ireland UPDATE ON THE IRISH NATIONAL CRAYFISH PLAGUE SURVEILLANCE PROGRAMME (NCPSP)
Break	
UK Trout Industry Perspectives (Chair: Oliver Robinson)	
11:45 – 12:00	Oliver Robinson – Biotope & British Trout Association UK TROUT INDUSTRY MAIN FISH HEALTH ISSUES
12:00 – 12:15	Gustavo Ramirez Paredes – Ridgeway Biologicals Ltd a Cevas Animal Health Company CHALLENGES AND OPPORTUNITIES ON THE DEVELOPMENT OF AUTOGENOUS VACCINES FOR THE TROUT INDUSTRY IN THE UK
12:15 – 13:00	Open discussion

Lunch	
Early-Stage Research Session I (Chair: Dave Hoole)	
14:00 – 14:15	Anna Tidy – Cefas, University of Exeter CHARACTERISATION OF A MARTEILIA PARASITE LINKED TO HIGH MORTALITIES OF COCKLES (<i>CERMASTODERMA EDULE</i>) IN THE WASH ESTUARY, UK AND ITS PHYLOGENETIC RELATIONSHIP TO CLOSELY RELATED SPECIES
14:15 – 14:30	Ivana Giovanna Zupčić - Croatian Veterinary Institute DETECTION OF THE VIRULENCE GENES OF <i>VIBRIO HRVEYI</i> BACTERIA AND TESTING THE SUITABILITY OF AN ALTERNATIVE HOST FOR STUDYING VIRULENCE
14:30 – 14:45	Batuhan Coskun – University of Stirling CHARACTERIZATION OF A NOVEL VIRULENCE FACTOR IN <i>VIBRIO ANGUILLARUM</i>
14:45 – 15:00	Jamie McMurtrie - University of Exeter RELATIONSHIPS BETWEEN POND WATER AND SKIN MUCOSAL MICROBIOMES IN TILAPIA AQUACULTURE
15:00 – 15:15	Valeria Macchia - University of Stirling IMMERSION CHALLENGE MODEL FOR FLAVOBACTERIUM PSYCHROPHILUM INFECTION OF ATLANTIC SALMON (<i>SALMO SALAR</i> L.) FRY
Break	
Early-Stage Research Session II (Chair: Kim Thompson)	
15:45 – 16:00	Laurie Smeaton - University of Aberdeen DEVELOPMENT OF CELL CULTURE TOOLS TO STUDY FISH VIRUS INTERACTIONS WITH A FOCUS ON FASTIDIOUS CARP VIRUSES
16:00 – 16:15	Georgia Keen – Cefas BLOOD BIOCHEMISTRY STUDIES IN COMMON CARP
16:15 – 16:30	Georgia Ward - Cefas INFECTION DETECTION: ASSESSING THE EFFICACY OF MOLECULAR AND MICROSCOPY-BASED METHODS FOR THE DETECTION OF MARTEILIA PARAREFRINGENS IN BLUE MUSSELS MYTILUS EDULIS IN THE UK
16:30 – 16:45	Marwa Tawfik - University of Aberdeen CHARACTERIZATION OF MICROBIAL PROFILE OF MARINE-BASED DIET FED ATLANTIC SALMON AT FIRST FEEDING: DOES PLANT-BASED DIET CAUSES DYSBIOSIS AT THIS CRITICAL PERIOD?
16:45 – 17:00	Jibril Y. Jibril - University of Stirling & National Biotechnology Development Agency DISEASE OCCURRENCE AND ASSOCIATED MANAGEMENT PRACTICES AT FISH FARMS IN NORTHERN NIGERIA

17:00 – 17:15	Isobel Smith – Cefas & University of Exeter DEVELOPING AN AMR SURVEILLANCE PROTOCOL FOR ORNAMENTAL FISH
17:15 – 17:30	Janina Z. Costa – SAIC SAIC – DRIVING INNOVATION IN SUSTAINABLE AQUACULTURE
19:00	Dinner @ Weymouth & Portland Sailing Academy

Thursday 15 September

08:45 – 09:15	Registration / Delegates arriving to the venue
Bacteriology (Chair: David Desbois)	
09:15 – 09:45	Keynote presentation: Kim Thompson – Moredun Research Institute USE OF SERUM BIOMARKERS AS A HEALTH ASSESSMENT TOOL FOR CARDIOMYOPATHIES IN ATLANTIC SALMON AQUACULTURE
09:45 – 10:00	Andrew Joseph – Cefas UK FAO REFERENCE CENTRE FOR ANTIMICROBIAL RESISTANCE: ADVOCATING RESPONSIBLE USE OF ANTIBIOTICS IN WEST AFRICAN AQUACULTURE
10:15 – 10:30	Andrew Desbois – University of Stirling <i>AEROMONAS HYDROPHILA</i> ST251 AND <i>AEROMONAS DHAKENSIS</i> ARE MAJOR EMERGING PATHOGENS OF PANGASIU CATFISH IN VIETNAM
10:30 – 10:45	Nicola M. Coyle – Cefas A VERY HOPEFUL SEA-MONSTER: MULTIPLE LARGE HOMOLOGOUS RECOMBINATION EVENTS DISCOVERED IN THE AQUACULTURE PATHOGEN <i>VIBRIO ANGUILLARUM</i>
10:45 – 11:00	María Algueró-Muñiz – University of Glasgow BIOMONITORING PLANKTONIC AND PARASITIC THREATS IN SALMON AQUACULTURE - INSIGHTS FROM MICROSCOPY AND METABARCODING DATA
11:00 – 11:15	Martin Llewellyn – University of Glasgow FROM MICROBES TO METAZOANS: WHAT IS THE VALUE OF METABARCODING AND METAGENOMICS FOR UNDERSTANDING FISH PATHOLOGY?
11:15 – 11:30	Daniel A. Horton - University of Stirling DEVELOPING AN OPTIMAL VACCINATION APPROACH FOR <i>LABRUS BERGYLTA</i>
Break	
Parasitology (Chair: Athina Papadopoulou)	

12:00 – 12:15	Connor Harvey – Environmental Agency FROM DETECTION TO CONTROL, A MULTIFACTORIAL ASSESSMENT OF THE NOVEL NON-NATIVE FISH LOUSE: <i>ARGULUS MONGOLIANUS</i>
12:15 – 12:30	Silvia M. C. Soares – Marine Scotland Science IDENTIFICATION OF PRESENCE OF KUDOA THYRSITES IN ATLANTIC MACKEREL (<i>SCOMBER SCOMBRUS</i>) DISPLAYING POST-MORTEM MYOLIQUFACTION IN SCOTLAND
12:30 – 12:45	Signe Martin – Marine Institute, Ireland MICROPARASITES INFECTING DECAPOD CRUSTACEANS WITH A FOCUS ON PARAMARTEILIA SP. INFECTION OF VELVET CRAB (<i>NECORA PUBER</i>)
12:45 – 13:00	Closing meeting & ECR's Prizes
Lunch	
Posters	
LONG AMPLICONS AS A TOOL TO IDENTIFY VARIABLE REGIONS OF RIBOSOMAL RNA (RRNA) FOR IMPROVED TAXONOMIC RESOLUTION AND DIAGNOSTIC ASSAY DESIGN IN PARASITIC PROTISTS – Chantelle Hooper Cefas, Exeter University	
DEVELOPMENT OF SPECIES-SPECIFIC MOLECULAR BIOASSAYS TO DETECT <i>AEROMONAS SALMONICIDA</i> – Rebekah L. Huckstepp, University of Greenwich	
ENVIRONMENTAL DNA/RNA FOR PATHOGEN DETECTION, SURVEILLANCE, AND ECOLOGY – David Bass, Cefas	
CHARACTERIZATION OF BACTERIA IN COMMERCIAL PROBIOTICS USED FOR AQUACULTURE IN BANGLADESH TO ASSESS CONCERNS OVER SAFETY – Ibrahim Rashid, University of Stirling, Department of Fisheries Biology & Aquatic Environment	
WESTERN IMMUNOBLOTTING VALIDATION OF COMMERCIAL ANTI-PANCITOKERATIN AND ANTI-VIMENTIN ANTIBODIES FOR IMMUNOHISTOCHEMISTRY IN EUROPEAN SEABASS (<i>DICENTRARCHUS LABRAX</i>) AND GILTHEAD SEABREAM (<i>SPARUS AURATA</i>) – Massimo Orioles, University of Udine	
PATHOGENS CO-TRANSPORTED WITH INVASIVE NON-NATIVE AQUATIC SPECIES – Rachel Foster, Natural History Museum, Royal Holloway, University of London, Centre for Environment, Fisheries and Aquaculture Science	
EXPERIMENTAL SUSCEPTIBILITY OF UK CYPRINID SPECIES TO SPRING VIRAEMIA OF CARP VIRUS (SVCV) – Samuel Melrose, Cefas	

REPURPOSING TRYPANOCIDAL DRUGS TO TACKLE AMOEBIC GILL DISEASE IN ATLANTIC SALMON – **Yee Wan Liu, University of Glasgow**

PATHOGENESIS AND SHEDDING OF *VIBRIO AESTUARIANUS* IN EXPERIMENTALLY INFECTED PACIFIC OYSTERS – **Frederico Batista, Cefas**

IMMUNE PRIMING IN THE PACIFIC OYSTER AS AN APPROACH TO IMPROVE RESISTANCE TO THE WIDE-SPREAD PATHOGEN *VIBRIO AESTUARIANUS* – **Sarah Woodsford, University of Exeter**

TRANSCRIPTOMICS STUDIES OF *ICHTHYOPHTHIRIUS MULTIFILIIS* DURING THE PARASITIC STAGE – **Irene Cano, Cefas**

TRANSCRIPTOMIC ANALYSIS OF PERIPHERAL WHITE BLOOD CELLS IN CARP INFECTED WITH KOI HERPESVIRUS REVEALS MOLECULAR TARGETS FOR ANTIVIRAL RESEARCH – **Irene Cano, Cefas**

Student prizes sponsored by Elsevier.

