

Wageningen, April 24-28, 2022

FISH IMMUNOLOGY AND VACCINATION WORKSHOP

Preliminary Programme

Sunday April 24th

- Evening registration at Hotel 'WICC'
- Dinner (on own costs of the participants)

Monday April 25th

Introduction to the fish immune system

- Geert Wiegertjes (Wageningen Univ, NL): Introduction to the workshop
- Steve Bird (Univ Waikato, NZ): Fish cytokines
- Carolina Tafalla (INIA, ES): Fish chemokines
- Coffee break
- Maria Forlenza (Wageningen Univ, NL): Fish T cells
- Lunch
- Geert Wiegertjes (Wageningen Univ, NL): Fish macrophages
- Phil Elks (Sheffield Univ, UK): Zebrafish neutrophils
- Coffee break
- Pierre Boudinot (INRAE, FR): Fish B cells and their repertoires
- Dinner
- Evening Poster session 1

Tuesday April 26th

Mucosal immunity

- Sam Martin (Univ Aberdeen, UK): Gut and gill health: interaction with microbiota
- Sylvia Brugman (Wageningen Univ, NL): Mucosal immunity in zebrafish
- Coffee break
- Carla Piazzon (CSIC, ES): Gut mucosal immunity in gilthead seabream
- Lunch
- Group photo
- Practicals:
 - Hands-on assays in fish immunology – part A (staff AFI) *or*
 - Transcriptome analysis: general and practical aspects (Sam Martin, Univ Aberdeen, UK)
- Dinner
- Evening Poster session 2

Wednesday April 27th

Antiviral responses

- Pierre Boudinot (INRA, FR): Interferons and anti-viral responses
- Uwe Fischer (FLI, DE): Cell-mediated cytotoxicity
- Coffee break
- Bertrand Collet (INRAE, FR): In vitro cell lines for anti-viral studies
- Lunch
- Practicals:
 - Hands-on assays in fish immunology – part B (staff AFI) *or*
 - Gene discovery through synteny (Steve Bird, Univ Waikato, NZ)
- Workshop closing dinner

Thursday April 28th

Fish vaccination

- Daisy Vanrompay (Ghent University, BE): Trained immunity in shrimp
- Oystein Evensen (NMBU, NO): Vaccination of Atlantic salmon
- Coffee break
- Niels Lorenzen (DTU, DK): Fish DNA vaccines – basic and applied aspects
- Closure with poster prize awards
- Lunch

BACKGROUND

The Wageningen fish immunology / vaccination workshops have been organised annually since 1998. Typically, the workshops are characterised by one-hour presentations given by experienced lecturers, taking time to thoroughly introduce each subject. The workshops have been adopted by the International Society for Developmental and Comparative Immunology (**ISDCI**). This year's (2022) subject is **FISH IMMUNOLOGY AND VACCINATION**.

As always, the 21st - 2022 workshop includes two afternoons with a choice between hands-on practicals, or updates on recent molecular advances in transcriptome and genome analysis. Further, participants are asked to send an abstract of their research plans and to present a poster, with the best one awarded the poster prize. The official workshop language is English.

OBJECTIVES

The objective of the present workshop is to provide participants with advanced knowledge, both theoretical and practical, on the immune system of fish. During the workshop we will discuss the latest insights in the evolution of the immune system and, in particular, immune modulation, host defence against pathogens and vaccination.

TARGET GROUP

The level of the workshop is targeting academic and company researchers as well as management staff in the aquaculture industry. **We more than welcome PhD students, who have a reduced registration fee.**

REGISTRATION

The number of participants is limited to 35 persons, admitted on a 'first-come' basis. ALL-IN registration includes accommodation, meals and registration. Costs are 400 € for accommodation and meals for the whole workshop period PLUS a registration fee of 450 € (Ph.D. students), 650 € (post-doc, academic staff) or 850 € (company staff).

Upon registration via our website, WE will make a reservation for your accommodation at the Wageningen International Conference Centre (WICC) where ALL participants and speakers will be staying. This reservation will be made final upon your timely payment of the total costs for accommodation and registration.

Please visit us at: www.wageningenur.nl/afi

ORGANISATION

WAGENINGEN INSTITUTE OF ANIMAL SCIENCES (**WIAS**)

AQUACULTURE & FISHERIES (AFI)

Wageningen University & Research (WUR)

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For questions contact us at fish.workshop@wur.nl

The workshop is supported by:

International Society of Developmental and Comparative Immunology (**ISDCI**)

And a recognized part of the PhD curriculum of Nord University



COVID-19 Before you travel to the workshop, please check the Dutch government's checklist for entering the Netherlands. Anticipate the need for a negative COVID-19 test result, proof of vaccination, or proof of recovery on arrival. We anticipate masks and frequent self-testing may still be required at the time of the workshop. We have reserved an extra large lecture room to keep >1.5 meters distance. If temporary quarantine measures would be required we anticipate offering local, online attendance.

OUR PARTNERS

Ghent University, Ghent, Belgium



Centro de Investigación en Sanidad Animal (CISA-INIA), Madrid, Spain

Norwegian University of Life Sciences (NMBU), Oslo, Norway



Technical University (DTU), Lyngby, Denmark



University of Aberdeen, Scottish Fish Immunology Research Centre, SFIRC, Scotland



Consejo Superior de Investigaciones Científicas (CSIC), Castellón, Spain



The University of Sheffield, Sheffield, United Kingdom



University of Waikato, Department of Biological Sciences, New Zealand



INRAE, Jouy-en-Josas, France



Fed Res Inst Animal Health, Friedrich-Loeffler Inst (FLI), Germany

