

Zebrafish in Development, Organogenesis and Disease

February 12-16, 2018



Organizers: Jeroen Bakkers and Jeroen den Hertog

Venue: Hubrecht Institute

Level: Master/PhD

Monday Feb 12

13:30-15:00 Ted Peek auditorium, Hubrecht Institute
Jeroen Bakkers
Introduction: Zebrafish Development and Techniques

15:00-16:00h
Guest speaker:
Emily Noël, PhD
Bateson Center, University of Sheffield, United Kingdom

Title: Congenital heart defects: using zebrafish to understand the links between asymmetry, morphogenesis, and disease

Tuesday Feb 13,

14.00 - 15:30, Ted Peek auditorium, Hubrecht Institute
Jeroen den Hertog
Introduction

15:30 - 16:30, Ted Peek auditorium, Hubrecht Institute
Professor Paul Martin,
Schools of Biochemistry, and Physiology & Pharmacology & Neuroscience,
University of Bristol, Bristol, UK

Title: Studying parallels between the inflammatory response to wounds and to cancer

Wednesday, Feb 14

14.30-15.30: Ted Peek auditorium, Hubrecht Institute
From Fishbowl to Bedside

Rachel Giles, modeling human renal disease in fish and assignment will be given,

16.00-17.00 Guest Speaker:

Prof. dr. Herman Spaik

Director of the Institute of Biology (IBL)

Leiden University, The Netherlands

Title: At the crossroads of immunity and metabolism: novel insights from zebrafish screening technologies

Thursday, Feb 15

14:00 - 15.30, Ted Peek auditorium, Hubrecht Institute

Jeroen den Hertog

Hubrecht Institute

16.00 - 17.00, Ted Peek auditorium, Hubrecht Institute

Dr. Maaïke van de Berg

Dept. of Physiology, Pharmacology & Neuroscience

Bristol University, Bristol, UK

Title: Live imaging innate immune cell breaching of the basement membrane to stimulate skin cancer progression in zebrafish

Friday, Feb 16

9.30-10.30 Assignment: Read zebrafish crispr paper

here <http://dev.biologists.org/content/143/11/2025> and in case students are into programming

here is how we analyze the crispr seq data here <https://www.nature.com/articles/nbt.3628> and

the webversion here <http://imlspenticton.uzh.ch:3838/CrisprVariantsLite/>

14-15.00 Guest Speaker (!!!!NOTE: this will be in HUBRECHT ROOM 3, not the Auditorium!!!!)

Alexa Burger, PhD

Institute of Molecular Life Sciences

University of Zürich, Zurich, Switzerland

Title: "CRISPRing the zebrafish genome: methods, experiences, applications"

15.00-16:00 Presentations assignment, Concluding comments