Join Radboud Summer School 2018!

Zebrafish as Models in Biomedical Research

change perspective

Radboud Universiteit
Zebrafish as Models in Biomedical Research

Focus on Gene, Brain and Behaviour

Zebrafish are being used increasingly as animal models in neuro-behavioural and neuro-endocrine research. Reasons for this are the low costs, easy maintenance and a well-defined genome, among others. Given this, zebrafish now replace mice in many paradigms. While this may be valid from one perspective, zebrafish are clearly different from mammals: they are ectothermic rather than endothermic, their nervous system is organised differently, they have a duplicated genome and their behaviour is tailored to an aquatic environment rather than a terrestrial environment. Therefore, it is relevant and timely to address questions on the ins and outs of gene, brain and behaviour research in zebrafish.

Which topics will be discussed?
Crucial to the success of using zebrafish as research models is understanding the unique properties of zebrafish. Therefore the following topics will be addressed during the course: the phylogenetic position of zebrafish; duplicated genome of zebrafish; neuro-anatomy including the nervous system's remarkable plasticity; social (shoaling and interaction) and non-social (anxiety, fear, reward-related) behaviour of zebrafish; neuro-endocrinology (related to stress and metabolism); development from the larval to the adult stage; the 'ecology' of zebrafish (‘the wild and the lab’).

State-of-the-art techniques will be discussed and demonstrated to unravel and understand gene, brain and behaviour relationships in zebrafish.

After this course you are able to
• Address pros and cons of using zebrafish as models in brain and behaviour research
• Understand zebrafish brain and behavior
• Understand zebrafish genetics
• Understand zebrafish neuro-endocrinology

Number of ECTS
2 ECTS credits

Entry level
Advanced bachelor, Master, PhD, Postdoc and Professional
Course leader
Prof. Gert Flik, Head of Department
Dr. Ruud van den Bos, Researcher
Organismal Animal Physiology
Faculty of Science, Radboud University

This course is designed for
Master’s students and researchers who are currently working or are planning to start working with Zebrafish in the field of gene, brain and behaviour.

Admission documents
• Motivation letter
• CV

Dates
Monday 13 August - Friday 17 August 2018

Course fee
€ 585

Deadline application
1 June 2018

Discounts
• 10% discount if you register before 1 April 2018.
• 15% additional partner-discount for students from partners universities on all course fees!
See website for complete partner list!
Want to be part of the RSS experience?

More than just a course!
Radboud Summer School is more than an academic event. It is a unique opportunity to meet other international students and researchers and to get to know Radboud University and the city of Nijmegen. Our participants come from all over the world and have different cultural and academic backgrounds. Our programme includes the following activities free of charge: welcome reception, guest lecture and farewell drink. We also offer sports activities, a BBQ, a river cruise on a Pancake Boat and a city tour for a small fee.

Have a look on our website to see what participants have said about their experience!

Register now!

Contact
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www.ru.nl/radboudsummerschool, 5-17 August 2018