ZEBRAFISH @ BATH

Do you share our passion for zebrafish research?

Would you like to live and work in a **UNESCO World Heritage city?**
https://whc.unesco.org/en/list/428/

Then come and join us at the **University of Bath**, a **Global Top 150** university (QS 2025)
https://www.topuniversities.com/qs-top-uni-wur

Our Researchers

Professor Philip Ingham FRS
Philip pioneered the use of zebrafish as a model organism in the UK, establishing the first zebrafish research laboratory at the University of Oxford back in the 1980s. Since then, he has set up facilities at the CRUK London Research Institute, the University of Sheffield and the University of Exeter as well as at the Lee Kong Chian School of Medicine in Singapore. A past President of the **International Zebrafish Society** and vice-President of the **Zebrafish Disease Models Society**, he has made key discoveries about the Hedgehog signalling pathway as well the development of skeletal muscle in zebrafish. He was awarded the **Genetics Society Medal** in 2005 and the **BSDB Waddington Medal** in 2014.

Professor Robert Kelsh
Robert trained in evolutionary developmental biology at the University of Cambridge before doing postdoctoral research using zebrafish with Christiane Nüsslein-Volhard at the MPI in Tübingen and Judith Eisen at the University of Oregon. His research focuses on neural crest cell development, especially fate specification. He deploys a range or approaches ranging from CRSPR-Cas9 mediated genome editing to mathematical modelling to dissect the roles of transcription factors and their associated gene regulatory networks in selecting and balancing fate decisions. Last year, his research excellence was recognised by the **International Federation of Pigment Cell Societies** (IFPCS) through the **2023 Myron Gordon Award.**

Bath Global Chair Professor Steven Farber
A world-renowned expert in lipid metabolism and function based at **Johns Hopkins University**, Steve has a visiting appointment that brings him to Bath on regular sojourns. After graduating in Electrical Engineering, Steve trained in Neurobiology at MIT, exploring the balance between neurotransmitter and membrane phospholipid synthesis in cholinergic brain regions. He pioneered the use of zebrafish for studies of lipid biology during postdoctoral research in the lab of Marnie Halpern at the Carnegie Institution. A major theme of his research is the development of tools to study the cell biology of lipids in the context of intact tissues and organs in a way previously only imaginable in cultured cells or yeast.

Associate Professor Vasanta Subramanian
Best known for her studies of mammalian development which she began as a research fellow in the laboratory of Peter Gruss at the MPI in Göttingen, Vasanta has more

recently adopted the zebrafish as a model for her studies of the involvement of the Ribonuclease A superfamily member Angiogenin in Amyotrophic lateral sclerosis (ALS).

Associate Professor Nikolas Nikolaou
Nikolas trained at the National Institute for Medical Research, Mill Hill before doing postdoctoral research initially with Martin Meyer and subsequently with Corinne Houart at King's College London. His research addresses the fundamental molecular and cellular mechanisms that are essential for neural circuit formation during developmental periods, how neural connections are maintained throughout life, and how such processes are mis-regulated in certain neurological disease conditions.

Sir Henry Dale University Research Fellow David Gurevich
Dave trained in the laboratory of Pete Currie at the Australian Regenerative Medicine Unit at Monash University and took up his appointment in Bath after a spell of postdoctoral research in Bristol with Paul Martin. His research focuses on mechanisms of tissue repair and how these go awry in the context of compromised wounds such as diabetes, with a specific focus on inflammation and angiogenesis. In addition, he studies how implanted biomaterials interact with living tissue, especially to explore diagnostic and therapeutic strategies for accelerating tissue repair.

We are now looking to expand our zebrafish research as part of the Department's current recruitment drive.

We are particularly interested in researchers with a focus on the role of the **microbiome** in **cardio-vascular health**, the **microbiome-gut-brain-axis** and the **skin microbiome**, but are happy to consider researchers investigating any other microbiome-related topics, especially those with relevance to food security and biodiversity.
https://www.bath.ac.uk/campaigns/join-the-department-of-life-sciences/

We also have posts available in **Medicinal Chemistry and Drug Discovery** as well as **Pharmacy and Drug Delivery**, topics in which we are keen to recruit investigators using zebrafish as their experimental model.
https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=ED11774
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Located on the beautiful **Claverton Down** campus (https://www.bath.ac.uk/locations/university-of-bath-claverton-down-campus/) the Department of Life Sciences provides multiple opportunities for collaboration, both across a broad range of disciplines within the department as well as with the neighbouring departments of Chemistry, Chemical Engineering, Computer Sciences, Electrical Engineering, Health, Mathematical Sciences, Physics and Psychology.

As part of the **GW4 Alliance** (https://gw4.ac.uk/) we have close links with another **Global Top 150** university, **Bristol,** as well as with Cardiff and Exeter universities, all of which are within easy reach. And with **London** and **Oxford** less than 90 minutes away by train, interactions and collaborations with researchers at several **Global Top 20** universities can be readily established and sustained in person.