Workshop

Toxic Metabolites in the Biology of Ageing and Cancer

4 – 7 December 2022
Buxted Park
East Sussex
UK


Funded places for early-career researchers

This Workshop will focus on the biology of toxic metabolites in the ageing process, stem cells and cancer. Specific emphasis will be placed on how metabolites that carry carbonyls damage stem and cancer cells. A particular area will focus on endogenous aldehydes, the enzymes that remove them [aldehyde dehydrogenases (Aldh) and functionally related glutathione-based enzymes such as Adh5 and Glo-1/2]. Further, we will consider how human genetic variation can contribute to metabolite sensitivity, and how mutations in cancer genomes in toxic metabolism pathways can be exploited for therapy.

This Workshop is a first-in-kind that will focus on these reactive carbonyls and their role in ageing and disease.

We bring together young and established investigators from basic, clinical and industry science to explore new avenues of how toxic metabolites and associated metabolising enzymes function in disease for the long-term benefit of stem-cell and and cancer therapies.

An important outcome of this Workshop is to foster new collaborations and to promote the exchange of ideas on the function of ALDH and related enzymes. The investigators presented here are from a range of disciplines (basic science, clinical and industry) with diverse specialities in genetics, genomics, metabolism, chemistry, biochemistry, structural biology, cancer biology, drug development and animal models.

Organisers

KJ Patel
Liz Patton

Speakers

- Michalis Agathocleous
- Christopher Chang
- James K Chen
- John Dick
- Mayumi Fujita
- Juan Garaycoechea
- Marcus Grompe
- Thomas Hurley
- Daria Mochly-Rosen
- Raymond Moellering
- Elena Piskounova
- Christopher Schofield
- Caroline Springer
- Madalena Tarsounas
- Aurelio Teleman
- Mike Tyers
- Ashok Venkitaraman

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Secure your place* alongside leading experts and other early-career researchers from a diverse range of scientific backgrounds.

Extended deadline: 15 July 2022

To find out more or apply online visit **workshops.biologists.com**

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