Institute of Molecular and Cell Biology
A*STAR

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Dr Philipp Kaldis:

Date: 12 March 2019, Tuesday
Time: 11:00AM – 12:00PM
Venue: Level 3, IMCB Seminar Room 3-46, Proteos, Biopolis

Speaker: Dr Joao Matos, Independent Group Leader, Institute of Biochemistry, ETH Zurich, Switzerland
Title: Rewiring DNA repair for genome stability or genome haploidisation

Homologous recombination fulfils fundamental DNA repair roles during mitotic proliferation as well as during meiosis. Crucially, however, context-specific modifications tailor the recombination machinery to avoid, or enforce, formation of reciprocal exchanges – crossovers – between maternal and paternal chromosomes. I will discuss how cells rewire the function of various DNA repair enzymes to regulate crossing-over and either safeguard genome stability (mitosis) or promote genetic diversity (meiosis).

Biography:
Joao Matos was born and raised in Portugal. After finishing his studies in Biochemistry, in 2003, he joined the laboratory of Wolfgang Zachariae at the Max Planck Institute of Cell Biology and Genetics, Dresden. His PhD thesis work focused on the regulation of chromosome segregation during meiosis. He moved to London in 2009, to carry out postdoctoral work with Stephen West, at Clare Hall Laboratories (now the Francis Crick Institute). In the West laboratory Joao worked on the biochemistry of homologous recombination, with particular emphasis on the regulation of structure-selective endonucleases. In 2014 Joao moved to Zürich, where he was appointed assistant professor and research group leader at ETH. His current research focuses on the regulation of DNA repair in proliferating cells and during meiosis.

ALL ARE WELCOME *(No registration required)*

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