



Institute colloquium

Stabilizing repetitive genomes through heterochromatin and BRCA-1

Susan Gasser

Friedrich Miescher Institute for Biomedical Research

Host: Michael Sixt

Prof. Susan M. Gasser is a Swiss biochemist who studied biophysics at the University of Chicago, and completed her PhD at the University of Basel in Biochemistry. After studying human mitotic chromosomes at the University of Geneva, she began her own research on chromatin and chromosome organization in budding yeast, combining genetics, microscopy and biochemical approaches, at the Swiss Institute for Experimental Cancer Research in Epalinges/Lausanne. After 15 years, she returned to the University of Geneva as Professor of Molecular Biology and, in 2004, she was recruited as Director of the Friedrich Miescher Institute for Biomedical Research in Basel, where she also holds the chair of Professor of Molecular Biology at the University of Basel. Susan Gasser studies how nuclear and chromosomal context establishes and maintains heritable patterns of gene expression. From the telomere position effect in yeast, to the inheritance of repressed tissue-specific genes in *C. elegans*, her studies have examined how the spatial organization of heterochromatin in the nucleus contributes to heritable gene silencing. In parallel to these studies, the Gasser laboratory optimized live imaging techniques to pioneer the analysis of chromatin dynamics with time-lapse fluorescence imaging. This brought her to the study of chromatin remodelers, among which figured INO80, particularly in the context of replication stress and double strand break repair. Dr Gasser was elected to the Académie de France, EMBO and the Swiss Academy of Medical Sciences, and received the INSERM International Prize in 2011, the FEBS | EMBO Women in Science Award in 2012, and the Weizmann Institute Women in Science award in 2013.

Tuesday, November 14, 2017 11:00am - 12:00pm

Raiffeisen Lecture Hall



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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