epigenetics @HMGU

The Summer Internship Program

in Epigenetics, Stem Cells and Cellular Plasticity

Project Preference List 2021

Select up to three projects

Laboratory	Institute	Project title	Setting
Cabianca	IFE	In vivo study of chromatin organization upon stress in C. elegans	On-campus
Colomé-Tatché	ICB	Integration of single cell RNA-seq and ATAC-seq data:	On-campus Virtual
Hamperl	IES	Single-locus specific chromatin isolation as a tool to study nucleosome positioning at the single-molecule level	On-campus
Lindermayr	BIOP	Redox-dependent chromatin modulation in environmental stress response	On-campus
Schneider	IFE	Deciphering the function of novel histone modifications and their role in metabolic diseases – integrative omics analysis	On-campus Virtual
Peng	Helmholtz AI	Deep learning-based super-resolution Plankton imaging	Virtual
Marr	ICB	Uncertainty estimation from latent space representations using variational autoencoders and comparison to established methods	Virtual
Marr	ICB	Image processing and deep learning for live red blood cell fluorescence microscopy	Virtual
Marr	ICB	Characterization of multi-species developing epigenetic landscapes	Virtual
Scialdone	IES	Physical models of cellular fate decision in olfactory sensory neurons	On-campus Virtual
Theis	ICB	Deep learning and dropout to select informative features for spatial transcriptomics	Virtual
Torres-Padilla	IES	Uncover the epigenetic mechanisms behind the establishment of totipotency	On-campus Virtual