



University Hospital of Cologne | IMSB
Bachemer Straße 86 · 50931 Cologne · Germany

Prof. Dr. Achim Tresch
Director

Phone: +49 221 478-96512
Fax: +49 221 478-82940
achim.tresch@uni-koeln.de

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PhD/postdoc position in Computational Biology

The Computational Biology group at the Institute of Medical Statistics and Computational Biology has an open PhD/postdoctoral position to be filled at the earliest possible date. We develop statistical and bioinformatic methods that lead to a better understanding of high-dimensional biological data. Our research focuses on single cell and spatial experiments (multimodal data integration, dimension reduction), epigenomics (longitudinal data analysis) and metabolic RNA labelling (dynamic modelling of RNA metabolism). Our team is part of the Centre of Excellence for cellular stress responses in aging-associated diseases (CECAD) at the University of Cologne. We are looking for candidates with a background in statistics, physics, mathematics or computational biology. Applicants should have a passion for developing and applying statistical algorithms to large biological datasets. Programming experience, preferably in R or Python, is required.

Your work will include, but is not limited to, integrative analysis of single cell and spatial transcriptomic data in the context of ageing tissues. We work in close collaboration with experimentalists. An interdisciplinary interest and strong communication skills are therefore essential, as are social skills for successful teamwork. Applicants are encouraged to send an email with a CV and a short letter of motivation to achim.tresch@uni-koeln.de. Further information about our group can be found at <https://computationalbiology.uni-koeln.de/>, as well as the website of the CECAD, <https://www.cecad.uni-koeln.de/research/principal-investigators/full-members/achim-tresch>.