



Join the ERC DynaTrans Synergy Consortium: Postdoctoral Positions Available

The ERC-supported DynaTrans Synergy Consortium, led by Thomas Gregor, Denis Duboule, and Gasper Tkacik, is inviting applications for postdoctoral positions. Our collaborative team combines expertise in genetics, developmental biology, stem cells, experimental, and theoretical biophysics. The project's primary focus is unraveling the spatio-temporal dynamics of gene regulation during early mammalian embryonic development, with a specific emphasis on mammalian pseudo-embryos, also known as gastruloids.

Project Overview: Using cutting-edge microscopy, genomic and epigenetic techniques, we aim to analyze chromosome organization and dynamics at the individual gene level, achieving the highest temporal resolution. The project integrates stem cell technologies, genome editing, and biophysical modeling to decipher the intricate relationship between chromatin structure and gene expression across various structural and temporal scales.

Position Requirements: Successful candidates will possess an interdisciplinary background and collaborate closely with the three teams, each with distinct expertise. While officially hosted by one of the partner institutions (Institut Pasteur and Collège de France in Paris, and IST Austria in Vienna), frequent exchanges and visits among locations are anticipated. We particularly encourage applications from candidates who can facilitate seamless information exchange across the boundaries of different research areas. For those with a computational focus, expertise in large-scale data analysis, probabilistic/Bayesian inference and model selection, or numerical polymer simulations is highly valued.

Application Details: Interested candidates are invited to submit the following items via dynatrans.synergy@gmail.com or to either of the involved laboratories:

- Extended cover letter, including employment availability date, a brief description of academic and research experience, and the contacts of at least two academics who can provide reference letters upon request.
- Curriculum vitae, including a list of publications.

We look forward to welcoming dynamic and collaborative individuals to contribute to groundbreaking research at the intersection of genetics, developmental biology, and biophysics.