



Stockholm  
University

2019-03-25  
Dnr SU 465-0056-19

## Postdoctoral position Chromatin and Epigenetics in *Drosophila* Development

Stockholm University, Sweden, invites applications for one postdoctoral position in the laboratory of Professor Mattias Mannervik at the Department of Molecular Biosciences, The Wenner-Gren Institute (<http://www.su.se/mbw>). The position is scheduled to start as soon as possible.

Transcriptional coregulators are proteins that facilitate communication between transcription factors and the basal transcription apparatus, in part by affecting chromatin through post-translational modification of histones. As such, they contribute to generation of cell-type specific gene regulatory networks and epigenetic control of animal development (see Mannervik et al. *Science*, 284, 606-609, Boija et al. *Mol Cell*, 68, 491-503). This laboratory is using molecular, genetic, and transgenic approaches in *Drosophila melanogaster* to elucidate the molecular mechanisms of transcriptional and chromatin regulator function during development. To investigate the *in vivo* role of histone modifications in gene expression this project uses two approaches. A histone replacement system is used to examine the effects of amino acid substitutions in the histones on organismal development, and a modified CRISPR/Cas9 system is employed to target chromatin modifying enzymes to endogenous loci.

The position is available immediately and requires a recent Ph.D. as well as extensive experience in molecular biology techniques. The successful applicant should have a high-quality publication record, and motivation to study underlying mechanisms of gene regulation in development. The position will be funded with a fellowship, and includes health insurance. The terms of this fellowship are regulated by the rules for postdoctoral fellowships at the Stockholm University (<http://www.su.se/mbw/mbw-internal/scholarship/guidelines-for-scholarship>).

Stockholm University is one of the largest and most prominent universities in Sweden, located in the nation's capital city, beautifully surrounded by the first national city park in the world. For further information, see <http://www.su.se/english/> and <http://www.academicstockholm.se/>

**Application:** Applications marked with reference number SU 465-0056-19 should be submitted electronically as a single PDF file to <mailto:mattias.mannervik@su.se> and to <mailto:birgitta.olsson@su.se>. The application deadline is May 31, 2019.

Applications should comprise the following:

- 1) a personal statement describing your interest in this project (1-2 paragraphs), research experience (1-2 paragraphs) and career goals (1-2 paragraphs)
- 2) curriculum vitae
- 3) bibliography
- 4) names, e-mail addresses, and phone numbers of three references