

14 PhD positions can be offered in Mainz as part of a new, DFG funded Research Training Group:

"Gene Regulation in Evolution: From Molecular to Extended Phenotypes" (GenEvo).

PhD projects are carried out at the Biology department of Johannes Gutenberg University Mainz or at the Institute of Molecular Biology (IMB).

We offer to our students

- The possibility to work on exciting, interdisciplinary projects at the interface between gene regulation and evolution
- A team of dedicated advisors from several disciplines
- Numerous opportunities for advanced professional training in scientific knowledge, techniques and professional skills
- Fully-funded researcher positions (EG 65% contracts)
- Use of state-of-the-art technology in highly motivated research teams
- A lively and very international student community

The following projects are available in GenEvo groups:

- **Joachim Burger**, Falk Butter, Miguel Andrade: A genome-wide view of human adaptation to novel selective environments using ancient genome data
- **Julian König**, Joachim Burger, Thomas Hankeln: The molecular evolution of Alu
- **Thomas Hankeln**, Miguel Andrade: Gene expression regulation in the adaptive evolution of the hypoxia-tolerant rodent Spalax
- **René Ketting**, David Rosenkranz, Hans Zischler: Systematic comparative analysis of nematode small RNA pathways
- **René Ketting**, Falk Butter, Susanne Gerber: Comparative analysis of evolutionary changes in the transcriptome and proteome in nematodes
- **Petra Beli**, René Ketting, Thomas Hankeln: Evolution of gene regulation induced by the ultraviolet radiation stress response
- **Eva Wolf**, Miguel Andrade, Susanne Foitzik: Structural insights into the evolution of circadian gene regulation
- **Helen May-Simera**, Martin Kaltenpoth, Susanne Gerber: Evolution of 'cilia' proteins in gene regulatory mechanisms
- **Peter Baumann**, Romain Libbrecht: Epigenetic diversity and adaptation in parthenogenetic lizards
- **Romain Libbrecht**, René Ketting: Gene regulatory mechanisms modulating reproductive activity in ants

- **Susanne Foitzik**, Peter Baumann, Susanne Gerber: The role of gene regulation in the division of labour in ants
- **Susanne Foitzik**, Peter Baumann, Falk Butter: Parasite interference in regulation of host gene expression
- **Martin Kaltenpoth**, Christof Niehrs: Evolution of molecular mechanisms regulating mutualism establishment

During the application process, one to several projects can be chosen. Please select in the online application form for each project you are interested in (up to 5) the adviser listed in bold.

For further details, please visit our GenEvo page and read more about [all projects](#). Registration for application until **May 22nd 2019**, starting date **October 1st 2019**