

Ralf Gilsbach - CV

PD Dr. rer. nat. Ralf Gilsbach studied Pharmacy at the University of Bonn and obtained his PhD in Pharmacology and Toxicology from the University of Bonn, studying the physiological role of the norepinephrine transporter. 2006 he joined the Institute of Pharmacology and Toxicology at the University of Freiburg where he studied the sympathetic and cardiovascular system and obtained his *habilitation*. In 2012 he became a group leader and focused his research on chromatin mechanisms of cardiac development and disease. His current projects combine functional epigenetics and spatial genome analysis to decode and modulate promoter-enhancer interactions in cardiac cells.

Five most important publications

1. **Gilsbach R** et al. Distinct epigenetic programs regulate cardiac myocyte development and disease in the human heart in vivo. **Nat Commun** 2018 PMID: 29374152
2. Nothjunge S [...] **Gilsbach R**. DNA methylation signatures follow preformed chromatin compartments in cardiac myocytes **Nat Commun** 2017 PMID:39162810
3. Chatterjee A [...] **Gilsbach R** [...] Akhtar A. Mof acetyl transferase regulates transcription and respiration in mitochondria. **Cell** 2016;167:722-738 e723 PMID: 27768893
4. Preissl S [...] **Gilsbach R**. Deciphering the epigenetic code of cardiac myocyte transcription. **Circ Res** 2015;117:413-423 PMID: 26105955
5. **Gilsbach R** et al. Dynamic DNA methylation orchestrates cardiomyocyte development, maturation and disease. **Nat Commun** 2014;5:5288 PMID: 25335909