

## 13 LIST OF OWN PUBLICATIONS

### Publications

- **J. J. Fischer**, T. Krueger, M. Schueler, M. Toenjes, J. Toedling, W. Huber, S. Sperling:  
“A cardiac regulatory network of Gata4, Mef2a, Nkx2.5, and Srf.”  
In preparation.
- M. Schueler, M. Toenjes, S. Hammer, **J. J. Fischer**, F Berger, S. Mebus, M Vingron, S. Sperling:  
“Gene expression profiling of patients with congenital heart defects – correlation between molecular data and complex clinical phenotypes.”  
In preparation.
- M. Lange, S. Just, B. Kaynak, I. Dunkel, **J. J. Fischer**, M. Toenjes, T. Krueger, S. Mebus, C. Grimm, W. Rottbauer, S. Sperling:  
“The PHD finger protein DPF3 links histone acetylation with the BAF chromatin remodeling complex and is essential for cardiac and skeletal muscle development.”  
In preparation.
- S. Hammer, M. Toenjes, M. Lange, **J. J. Fischer**, I. Dunkel, S. Mebus, C. H. Grimm, R. Hetzer, F. Berger, H. Lehrach, S. Sperling:  
“Deregulation of *TBX20* in patients with Tetralogy of Fallot.”  
Submitted to *J. Cell. Biochem.*
- J. Toedling, O. Sklyar, T. Krueger, **J. J. Fischer**, S. Sperling, W. Huber:  
“Ringo - an R/Bioconductor package for analyzing ChIP-chip readouts.”  
*BMC Bioinformatics* (2007).
- **J. J. Fischer**, J. Toedling, T. Krueger, M. Schueler, W. Huber, S. Sperling:  
“Combinatorial effects of histone modifications in transcription and differentiation.”  
accepted *Genomics*.
- **J. J. Fischer**, Y. Aoyagi, M. Enoki, Y. Doi, T. Iwata :  
“Mechanical properties and enzymatic degradation of poly([R]-3-hydroxybutyrate-co-[R]-3-hydroxyhexanoate) uniaxially cold-drawn films.”  
*Polym. Degrad. Stabil.* (2004) Vol. **83** (3), 453-460.

### Oral presentations

- *Heart Repair Meeting*, Newcastle, 19.-21. Apr. 2007  
“A cardiac gene regulatory network of Nkx2.5, Gata4, Mef2, and Srf.”
- *Heart Repair Meeting*, Amsterdam, 19.-22. Jan. 2006  
“Epigenetic pattern of heart and skeletal muscle cells.”

## Posters

- *German Conference on Bioinformatics*, Potsdam, Germany, Sept 26-28, 2007  
M. Schueler, M. Toenjes, **J. J. Fischer**, S. Hammer, U. J. Pape, M. Vingron, S. Sperling: “Interactive Framework for the creation, visualization and analysis of regulatory networks.”
- *European Human Genetics Conference*, Nice, France, Jun 16-19, 2007  
**J. J. Fischer**, J. Toedling, T. Krueger, M. Schueler, W. Huber, S. Sperling: “Impact of Histone Modifications on Gene Expression and Differentiation.”
- *Statistics for Biomolecular Data Integration and Modelling*, Monte Verità, Ascona, Switzerland 10-15 Jun. 2007  
J. Toedling, T. Krueger, **J. J. Fischer**, O. Sklyar, S. Sperling, W. Huber: “Bioinformatic analysis of ChIP-chip data to identify histone modifications and transcription factor binding sites.”
- *Weinstein Cardiovascular Development Conference*, Indianapolis, May, 10-12, 2007  
M. Lange, S. Just, B. Kaynak, I. Dunkel, **J. J. Fischer**, M. Toenjes, T. Krueger, J. Toedling, S. Mebus, C. Grimm, W. Rottbauer, S. Sperling: “DPF3 – a new key transcription factor – bridging chromatin remodeling and cardiac muscle specification.”  
M. Toenjes, S. Hammer, M. Lange, **J. J. Fischer**, I. Dunkel, S. Mebus, C. H. Grimm, F. Berger, S. Sperling: “Investigation of TBX20 and its regulator TFAP2 in cardiac malformations.”
- *Heart Repair Meeting*, Newcastle, Apr. 19-21, 2007  
**J. J. Fischer**, J. Toedling, T. Krueger, M. Schueler, W. Huber, S. Sperling: “A cardiac gene regulatory network of Nkx2.5, Gata4, Mef2, and Srf.”  
J. Toedling, T. Krueger, **J. J. Fischer**, O. Sklyar, S. Sperling, W. Huber: “Bioinformatic analysis of ChIP-chip data to identify histone modifications and transcription factor binding sites.”  
M. Toenjes, S. Hammer, M. Lange, **J. J. Fischer**, I. Dunkel, S. Mebus, C. H. Grimm, F. Berger, S. Sperling: “Investigation of TBX20 and its regulator TFAP2 in cardiac malformations.”  
M. Lange, C. Grimm, S. Just, B. Kaynak, I. Dunkel, **J. J. Fischer**, M. Toenjes, T. Krueger, M. Schueler, J. Toedling, S. Mebus, F. Berger, W. Huber, W. Rottbauer, S. Sperling: “Transcription factor DPF3 controls cardiac specification and contractility by regulating gene expression on the chromatin level.”
- *From Functional Genomics to Systems Biology*, EMBL Heidelberg, Oct. 14-17, 2006  
**J. J. Fischer**, J. Toedling, T. Krueger, H. Lehrach, W. Huber, S. Sperling: “Epigenetics of muscle cell differentiation and specification.”
- *Weinstein Cardiovascular Development Conference*, St. Petersburg, Florida, May 11-13, 2006  
M. Lange, **J. J. Fischer**, S. Sperling: “A human DPF3 cardiac-specific enhancer marks the interventricular septum and it’s regulated by Nkx2.5 in the developing mouse heart.”
- *German Society for Biochemistry and Molecular Biology (GBM)*, Berlin/Potsdam, Sept. 18-21, 2005  
C. Grimm, M. Lange, B. Kaynak, S. Hammer, S. Grabow, **J. J. Fischer**, H. Lehrach, S. Sperling: “Functional analysis of genes associated with congenital heart diseases.”  
M. Lange, C. Grimm, **J. J. Fischer**, B. Kaynak, S. Hammer, H. Lehrach, S. Sperling: “Gene regulatory networks in the human heart.”
- *Weinstein Cardiovascular Development Conference*, Tucson, Arizona, May, 19-22, 2005  
M. Lange, **J. J. Fischer**, S. Sperling “Assignment of DPF3 in the process of cardiac development.”
- *3<sup>rd</sup> Human Brain Proteome Meeting*, Rauischholzhausen, Jan. 05-07, 2004  
M. Krause, C. Gotthold, U. Borgmeier, **J. J. Fischer**, H. Seitz: “Protein-DNA interactions.”