

## Prof. Dr. Tim Beissbarth

### Curriculum Vitae

#### Academic Carrer

- > since 10.2018: Professor, Head of the Institute of Medical Bioinformatics, University Medical Center Göttingen
- > 2008-2018: Professor for Biostatistics of the group Statistical Bioinformatics in the **Department of Medical Statistics** at the University of Göttingen
- > 2005-2011: Group leader at the **Molecular Genome Analysis Department** at German Cancer Research Center - **DKFZ**
- > 2002-2005 Postdoctoral Fellow at the Bioinformatics Department at Walter and Eliza Hall Institute of Medical Research, Melbourne -**WEHI**
- >2001-2002: Postdoctoral Fellow at: Computational Molecular Biology - Max-Planck-Institut Molecular Genetics, Berlin  
**Functional Genome Analysis**- German Cancer Research Center, Heidelberg
- > 6/2001/2002: Teaching of Bioinformatics courses at the Akademie fuer Weiterbildung

#### Education

- > 1998-2001: PhD thesis at the German Cancer Research Center- **DKFZ**  
Departments: Theoretical Bioinformatics and Molecular Biology of the Cell I
- > 1996-1998: Diplom (Masters) thesis in the Departement of Cell Genetics about MHC Class I - TAP interaction
- > 1996: Assistant in Biochemical Practical Courses at the Institute for Biochemistry
- > 1995-1996: Worked at the Regional Computing Center - Object Oriented Programming Courses
- > 1992-1997: Study of Biology and Computer Science at the University of Cologne
- 1989-1990: **West Valley Highschool** - Cottonwood, CA, USA
- > 1983-1992: Heinrich-Heine-Gymnasium - Cologne, Germany
- > Sept. 8., 1972: Born in Cologne, Germany

#### Research fokus

- Statistical Methods in Bioinformatics
- Modeling biological networks
- Integrative data analysis methods
- Machine learning

#### Current projects

##### MyPathSem

In the MyPathSem project, we aim in collaboration with other institutes of the UMG to come up with with a computational platform, or toolbox, which can be used by clinicians for making optimal use of high-throughput data for diagnostic or therapeutic purposes. For more information, please see the **official project site**.

## MTB-Report

The aim of this project is to develop a system automatically matching genomic data to suitable treatment options, which will help clinicians to interpret genomic data in a fast and highly quantitative manner. [more](#)

## MATCH

In Cooperation with the UMC Hamburg-Eppendorf our aim is the identification of a biomarker signature which associates with beneficial outcome on specific lipid therapy, and ideally is not dynamic under ongoing therapy. [more](#)

## Selected Publications

Beißbarth T., Speed T.P.:

**Gostat: Find statistically overrepresented Gene Ontologies within a group of genes.**

Bioinformatics; 6.2004; 20(9): 1464-1465

Fröhlich H., Tresch A., Beißbarth T.:

**Nested Effects Models for Learning Signaling Networks from Perturbation Data**

Biometrical Journal, 2009, 51(2):304-23

Johannes M., Brase J.C., Fröhlich H., Gade S., Gehrman M., Fälth M, Sültmann H., Beißbarth T.:

**Integration of pathway knowledge into a reweighted recursive feature elimination approach for risk stratification of cancer patients.**

Bioinformatics, 2010, 26(17):2136-44

## Professional activities

Since 2008: Associate Editor of [BMC Bioinformatics](#)

Since 2009: Associate Editor of [BMC Cancer](#)

Since 2012: Associate Editor of [Statistical Applications in Molecular Biology](#) (SAGMB)

Since 2015: Associate Editor of [GMS Medizinische Informatik, Biometrie und Epidemiologie](#)

Since 2013 Member of the faculty board of the University Medical Center Göttingen

2009-2013: Leader of the joint workgroup "Statistical Method in Bioinformatics" of the scientific associations International Biometrical Society (IBS) and German Society for medical Informatics, Biometry and Epidemiology (GMDS)

Since 2013: Co-leader of workgroup "Biomedical Informatics" of the society GMDS

Since 2014: In executive committee "Curricula for Medical Informatics" of the GMDS society

Since 2011: Build up a Core-Facility "Medical Statistics&Bioinformatics" within the department of Medical Statistics for the University Medical Center Göttingen

Since 2016: Member of the advisory board of the Fachgruppe Bioinformatik (FABI)

Since 2017: Speaker of the field Medical Bioinformatics&Systemsbiology of the society GMDS

Since 2019: In founding board of director of the Göttingen Campus Institute for Data Science (CIDAS)

Since 2020 DFG peer for subject Medical Informatics and Bioinformatics

Member of the societies [GMDS](#), IBS, [FaBi](#), [ISCB](#)

## Contact information

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