

## Niels Grabe

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## INTEREST STATEMENT

I am a studied computer scientist, working on methods supporting the interpretation and use of large data sets in the life sciences field. Through technical advances, more and more raw data is generated, which only be can interpreted through machine learning based methods in knowledge discovery. In parallel, we see an ever-increasing depth of explicitly formulated domain knowledge. I am working on bringing both fields together in the life-sciences and in biomedical research. I have been working closely with partners in biology and medicine on combining automatic and experimental methods for setting up large data sets, on large-scale data interpretation and on computational modelling of complex systems.

## CURRENT POSITION

National Center for Tumor Diseases, University Hospital Heidelberg Group Leader, Department of Medical Oncology	04/2012 to present
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Heidelberg University, Germany, BIOQUANT Center for Quantitative Biology Scientific Director, Hamamatsu Tissue Imaging and Analysis Center	04/2007 to present
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## RESEARCH INTERESTS

*Technology:* bioinformatics, machine learning, image analysis, databases, multi-cellular modelling, sequence analysis

*Application:* personalized medicine, pathology, immuno-oncology, clinical trials, biomarker, tumor biology, skin biology

## ACADEMIC BACKGROUND

<i>Habilitation in Bioinformatics and Systems Biology</i> Medical Faculty, University Heidelberg Titel: "Foundations of systems biological analysis and modelling of tissues"	07/2010
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<i>Dr.-Ing. (PhD), Bioinformatics, magna cum laude</i> Otto-von-Guericke University Magdeburg Dissertation: "Process oriented identification of transcription factor binding sites"	08/2001
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<i>Diplom (Diplom-Informatik)</i> Computer Science, "sehr gut" (best grade) Technical University Braunschweig, Germany	01/1997
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## AWARDS

Innovation Award Bioinformatics by Bioinformation e.V. MTZ BIOQUANT Award for Systems Biology MTZ Stiftung.	1998
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2007

## APPOINTMENTS

- *Associate professor (apl.)* 09/2014 to present  
Medical Faculty, University Heidelberg
- *Scientific Director, Hamamatsu Tissue Imaging and Analysis Center* 04/2007 to present  
Heidelberg University, Germany  
BIOQUANT Center for Quantitative Biology
- *Independent Scientific Group Leader, Department of Medical Oncology* 04/2012 to present  
National Center for Tumor Diseases  
University Hospital Heidelberg
- *Independent Junior Research Group Leader* 08/2008 to 03/2012  
*Systems Biology Program of the BMBF (German Ministry of Science and Education)*  
University Hospital Heidelberg  
Institute of Medical Biometry and Informatics  
Department of Medical Informatics
- *Group leader* 08/2005 to 07/2008  
University Hospital Heidelberg  
Institute of Medical Biometry and Informatics  
Department of Medical Informatics
- *Group leader* 11/2004 to 07/2005  
University Hamburg  
Center for Bioinformatics and  
University Hospital Heidelberg

## Other relevant positions and activities

- Co-Founder ageLab Pharma GmbH 03/2001 to 10/2004
- *Research group member* 08/1997 to 03/2001  
University Magdeburg  
Institute of Technical and Business Information Systems  
Biomedical Informatics Group of Prof. Dr. Ralf Hofestädt

## GRANTS

16 from national, international research grants and industry projects

## TEACHING

Different bioinformatics related courses in the curriculum of the Master on Medical Informatics of University Hospital Heidelberg

## PUBLICATIONS

84 Publications, 3 patents