CURRICULUM VITAE

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Appointed professor in Medical Informatics (W2), University of Göttingen

Head of working group Infrastructure for Translational Research

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Heidelberg	Diploma	1995	Medical Informatics
University of Göttingen	Dr.rer.nat.	2002	Medical Informatics
German Society for Medical Informatics	Certificate	2002	Medical Informatics

POSITIONS AND EMPLOYMENT

1995-1998	Head of EDP, St. Josef's Hospital of the University of Regensburg
1999-2003	Research assistant, Medical Computing Center, University Medical Center Göttingen (UMG)
2003-2005	Postdoctoral research fellow, Children's Hospital Informatics Program, Harvard-MIT Division of Health Sciences & Technology und Harvard Medical School, Boston, MA, USA
2005-2008	Head of Office research networks Department of Medical Informatics, University Medical Center Göttingen (UMG)
2009-2014	Head of the medical computing center, University Medical Center Göttingen (UMG)
2011 to present	Head of Research Group Infrastructure for Translational Research, Department of Medical Informatics, University Medical Center Göttingen (UMG)

SCHOLARSHIPS

2003-2005	Postdoctoral research fellow, Children's Hospital Informatics Program, Harvard-MIT Division of Health Sciences & Technology und Harvard Medical School, Boston, MA, USA

AWARDS

2007	Award "Best Scientific Talk" Telemed 2007, Berlin
2002	Certificate of Medical Informatics (GMDS and GI)

BOARD & COMMITTEE MEMBERSHIPS
(EDITORIAL BOARDS, SCIENTIFC ADVISORY BOARDS, SOCIETIES)

2017-2021	Speaker of the Interoperability working group of the national steering committee of the BMBF Medical Informatics initiative

Since 2016   SAB for the ZB MED (German National Library of Medicine, Bonn)
Since 2015   Reviewer for the German Council of Science and Humanities (Wissenschaftsrat)
Since 2010   Expert panel of the German Medical Informatics Association (GMDS and GI)
Since 2008   Speaker of the working group IT and Quality Management, Technologie- und Methodenplattform für die vernetzte medizinische Forschung (TMF), Berlin

LEADERSHIP/MEMBERSHIP IN RESEARCH SOCIETIES

2017 to present   Executive board of i2b2/tranSMART foundation
2016 to present   Executive board of the German Medical Informatics Association (GMDS)
2010 to present   Expert panel of the German Medical Informatics Association (GMDS and GI)

FIELD OF SPECIALIZATION

His research is currently focused on the integration and visualization of heterogeneous high dimensional omics and phenotype data in healthcare and biomedical informatics research. Additionally the firsthand experience of heading two IT-departments additionally to his research offers an ideal combination of IT production experience and substantial research experience in many interdisciplinary research collaborations dealing with privacy and security aspects in Biomedical informatics, Electronic Patient Records, Personal Health Records.

FUNDING WITHIN THE LAST 5 YEARS

2020-2025:   NFDI4health – A concept for a federated research data infrastructure for personal health data; head of TA6 Privacy and Data Access in Concert; DFG - Projektnummer 442326535
2020-2024:   KFO5002 – Deciphering Genome Dynamics for Subtype-specific Therapy in Pancreatic Cancer – head of CP2 Biomedical Informatics Support Platform DFG, FKZ BR655/15-1
2020-2023:   NFDI4Health – Task Force COVID-19: Integration und Harmonisierung von Forschungsanstrengungen zum besseren Verständnis von COVID-19 und seinen Folgen; AP Record Linkage, DFG - Projektnummer 451265285
2020-2022:   MTBReport – An automated data Integration platform for interpreting genomic data and reporting treatment options in molecular tumor boards (MTB-Report); VolkswagenStiftung
2020-2021:   NMDR – Weiterentwicklung und Etablierung des Nationalen Metadata Repositories (NMDR) Phase 2 DFG über TMF 315072261 (SA 1009/3-2)
2019-2021:   MyPathSem 2. FP – „A knowledge base for integrating patient-specific pathways for individualized treatment decisions in clinical applications", head of CP2, BMBF i:DSem 031L0024A
2018-2021:   HiGHmed – Medical Informatics Initiative; Medical Data Integration Center University Medical Center Göttingen: head of two work packages, scientific head of UMG MeDIC, BMBF 01ZZ1802B
2016-2017:   HiGHmed – pre phase Medical Informatics Initiative; co-author UMG, BMBF 01ZZ1605A
2016-2019:   MyPathSem – „A knowledge base for integrating patient-specific pathways for individualized treatment decisions in clinical applications", head of CP2, BMBF i:DSem 031L0024A
2017-2019:   Sysinflame – Teilprojekt CP10 01ZX1606C: „Forschungsdatenmanagement/ Bioinformatik – Ein Werkzeug für Systemmedizin", head of CP10, BMBF E:med 01ZX1306C
2014-2017:   Sysinflame – „Forschungsdatenmanagement/ Bioinformatik – Ein Werkzeug für Systemmedizin", head of CP10, BMBF E:med 01ZX1306C
2014-2017:   GenoPerspektiv – "Zum Umgang mit genomischen Hochdurchsatzdaten: die Perspektiven von Klinik, Ethik, Recht und biomedizinischer Informationstechnologie", head of the consortium, BMBF ELSA 01GP1402

2011-2017:   CRC179 „Biological Basis of individual Tumor Response in Patients with Rectal Cancer"
2nd Period head of TP08; DFG, FKZ BR655/15-1

10 MOST RELEVANT PEER-REVIEWED PUBLICATIONS WITHIN THE LAST 5 YEARS

1. Umbach N, Beißbarth T, Bleckmann A, Duttge G, Flatau L, König A, et al. Clinical application of genomic high-throughput data: Infrastructural, ethical, legal and psychosocial aspects. European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology. 2020; 31:1–15.

2. Ganzinger M, Glaab E, Kerssemakers J, Nahnsen S, **Sax U**, Schaadt NS, et al. Biomedical and Clinical Research Data Management. In: Systems Medicine - Integrative, Qualitative and Computational Approaches. Elsevier; 2020. p. 13.

3. Suhr M, Lehmann C, Bauer CR, Bender T, Knopp C, Freckmann L, et al. Menoci: lightweight extensible web portal enhancing data management for biomedical research projects. BMC Bioinformatics [Internet]. 2020 [cited 2020 Dec 18]; 21:582. Available from: https://doi.org/10.1186/s12859-020-03928-1

4. Haarbrandt B, Schreiweis B, Rey S, **Sax U**, Scheithauer S, Rienhoff O, et al. HiGHmed - An Open Platform Approach to Enhance Care and Research across Institutional Boundaries. Methods Inf Med. 2018; 57:e66–81.

5. Parciak M, Bauer C, Bender T, Lodahl R, Schreiweis B, Tute E, et al. Provenance Solutions for Medical Research in Heterogeneous IT-Infrastructure: An Implementation Roadmap. Stud Health Technol Inform. 2019; 264:298–302.

6. Kamdje-Wabo G, Gradinger T, Löbe M, Lodahl R, Seuchter SA, **Sax U**, et al. Towards Structured Data Quality Assessment in the German Medical Informatics Initiative: Initial Approach in the MII Demonstrator Study. Stud Health Technol Inform. 2019; 264:1508–9.

7. Apweiler R, Beissbarth T, Berthold MR, Blüthgen N, Burmeister Y, Dammann O, et al. Whither systems medicine? Exp Mol Med. 2018; 50:e453.

8. Bauer CR, Knecht C, Fretter C, Baum B, Jendrossek S, Rühlemann M, et al. Interdisciplinary approach towards a systems medicine toolbox using the example of inflammatory diseases. Brief Bioinformatics. 2017; 18:479–87.

9. Parciak M, Bauer CR, Baum B, Kusch H, **Sax U**. Technical Aspects of Data Provenance in Clinical Trials. In German Medical Science GMS Publishing House; 2017. p. DocAbstr. 288.

10. Bauer CR, Umbach N, Baum B, Buckow K, Franke T, Grütz R, et al. Architecture of a Biomedical Informatics Research Data Management Pipeline. Stud Health Technol Inform. 2016; 228:262–6.

REFERENCES

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