

Curriculum vitae of Prof. Dr. rer. nat. Ulrich Sax

Contact information

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Academic and professional career

Since 2011	Head of WG Infrastructure for Translational Research, Dept. of Medical Informatics, UMG
2011	Appointed professor in Medical Informatics (W2), University of Göttingen
2005-2011	Assistant Professor Medical Informatics (W1), University of Göttingen
2009-2014	Head of information technology, University Medical Center Göttingen
2005-2009	Head of the CIO Medical Research Networks, Dept. of Medical Informatics, UMG
2003-2005	Postdoctoral Research Fellow, Harvard Medical School, Children's HST Informatics Program (CHIP), Harvard-MIT Division of Health Sciences & Technology, Boston, MA, USA
2002	Certificate "Medical Informatics" Gesellschaft für Informatik (GI) und Deutsche Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie (GMDS)
2002	Dr. rer. nat. in Medical Informatics, University of Göttingen
1999-2003	Research Associate and Postdoctoral Research Scientist, Medical Computing Center, Georg-August-University, Göttingen
1995-1998	Medical Informaticist, Head of IT-Department, St. Josef-Hospital, Regensburg, Germany
1995	Diploma in Medical Informatics, Ruprecht-Karl Universität Heidelberg

Prizes / awards / scholarships

2007	Award "Best Scientific Talk" Telemed 2007, Berlin
2002	Research Fellowship of the DFG, German Research Foundation

Professional activities

Since 2017	Executive board of i2b2/tranSMART foundation
Since 2017	Head of interoperability working group of the German Medical Informatics Initiative
Since 2016	Executive board of the German Medical Informatics Association (GMDS)
Since 2010	Expert panel of the German Medical Informatics Association (GMDS and GI)

Selected publications

1. Parciak M, Bauer C, Bender T, Lodahl R, Schreiweis B, Tute E, **Sax, U** (2019): Provenance Solutions for Medical Research in Heterogeneous IT-Infrastructure: An Implementation Roadmap. In: Studies in health technology and informatics 264, S. 298-302. DOI: 10.3233/SHTI190231.
2. Haarbrandt B, Schreiweis B, Rey S, **Sax U**, Scheithauer S, Rienhoff O, Knaup-Gregori P, Bavendiek U, Dieterich C, Brors B, Kraus I, Thoms CM, Jöger D, Ellenrieder V, Bergh B, Yahyapour R, Eils R, Marscholke M: HiGHmed - An Open Platform Approach to Enhance Care and Research across Institutional Boundaries (2018) Methods Inf Med 2018; 57(Open



1): e66– e81<https://doi.org/10.3414/ME18-02-0002>

3. Knaup P, Deserno TM, Prokosch HU, **Sax U** (2018): Implementation of a National Framework to Promote Health Data Sharing: The German Medical Informatics Initiative: IMIA yearbook of Medical Informatics 2018. DOI: 10.1055/s-0038-1641210
4. Apweiler R, Beissbarth T, Berthold MR, Blüthgen N, Burmeister Y, Dammann O, Deutsch A, Feuerhake F, Franke A, Hasenauer J, Hoffmann S, Höfer T, Jansen PLM, Kaderali L, Klingmüller U, Koch I, Kohlbacher O, Küpfer L, Lammert F, Maier D, Pfeifer N, Radde N, Rehm M, Roeder I, Saez-Rodriguez J, **Sax U**, Schmeck B, Schuppert A, Seilheimer B, Theis FJ, Vera J, Wolkenhauer O (2017): Wither Systems Medicine? Experimental & Molecular Medicine (2017) 49, e00; doi10.1028/emm.2017.290
5. Baum B, Bauer CR, Franke T, Kusch H, Parciak M, Rottmann T, Umbach N, **Sax U** (2017): Opinion paper: Data provenance challenges in biomedical research: it - Information Technology 2017. doi 10.1515/itit-2016-0031
6. Bauer CR, Knecht C, Fretter C, Baum B, Jendrossek S, Rühlemann M, Heinsen FA, Umbach N, Grimbacher B, Franke A, Lieb W, Krawczak M, Hütt MT, **Sax U**: Interdisciplinary approach towards a systems medicine toolbox using the example of inflammatory diseases. Brief Bioinform. 2017 May 1;18(3):479-487. doi: 10.1093/bib/bbw024.
7. Jo P, Nietert M, Guskys L, Kitz J, Conradi LC, Müller-Dornieden A, Schüler P, Wolff HA, Rüschoff J, Ströbel P, Grade M, Liersch T, Beißbarth T, Ghadimi MB, **Sax U**, Gaedcke J: Neoadjuvant Therapy in Rectal Cancer - Biobanking of Preoperative Tumor Biopsies. Sci Rep. 2016 Oct 18;6:35589. doi: 10.1038/srep35589.
8. **Sax U**, Lipprandt M, Röhrig R: The Rising Frequency of IT Blackouts Indicates the Increasing Relevance of IT Emergency Concepts to Ensure Patient Safety. Yearb Med Inform 2016. doi: 10.15265/IY-2016-038.
9. Bauer CR, Umbach N, Baum B, Buckow K, Franke T, Grütz R, Guskys L, Nussbeck SY, Quade M, Rey S, Rottmann T, Rienhoff O, **Sax U**: Architecture of a Biomedical Informatics Research Data Management Pipeline. Stud Health Technol Inform. 2016;228:262-6 PMID: 27577384.
10. Bauer CR, Ganslandt T, Baum B, Christoph J, Engel I, Löbe M, Mate S, Stäubert S, Drepper J, Prokosch HU, Winter A, **Sax U** (2016). Integrated Data Repository Toolkit (IDRT): A Suite of Programs to Facilitate Health Analytics on Heterogeneous Medical Data. Methods Inf Med. 54:125-32

Important third party funding

MTBReport - An automated data Integration platform for interpreting genomic data and reporting treatment options in molecular tumor boards (MTB-Report)	Volkswagen-Stiftung	2020 - 2022	€ 230,000
NMDR - Weiterentwicklung und Etablierung des Nationalen Metadata Repositories (NMDR) Phase 2 315072261 (SA 1009/3-2)	DFG via TMF	2020 - 2022	€ 130,000
HiGHmed - Medizininformatik - Bessere Patientenversorgung und Forschung durch innovativen Informations- und Datenaustausch Beitrag Universitätsmedizin Göttingen (head of 2 WPs)	BMBF	2018 - 2020	Overall UMG share ≈ € 6.969,000
Sysinflamm – Teilprojekt CP10 01ZX1606C: „Forschungsdatenmanagement/ Bioinformatik – Ein Werkzeug für Systemmedizin“	BMBF E:med	2017 - 2019	€ 148,000
MyPathSem – Teilprojekt 2 FKZ 031L0024A: „A knowledge base for integrating patient-specific pathways for individualized treatment decisions in clinical applications“	BMBF i:DSem	2016 - 2019	€ 201,000