Juergen Eils

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Current Position

Head of Research Group "Data Management and Genomics IT" at DKFZ Heidelberg with about 20 employees   Since 2006

Research Topics

- Data Management for genome sequencing projects
- IT solutions for transfer of basic research into clinical care
- Managing Big Data projects

Degrees

Diploma in Mathematics, RWTH Aachen, Germany   1988

Previous Appointments

Computer Programs Ltd. (TCP) – research and development   1988-1998
Managing director of nettoo Ltd.   1998-2002
Member of Research Group "Data Management" at DKFZ   2002-2006

Selected Publications

- Hovestadt, V., Jones, D.T., …**, Eils, J.,** Koster, J., … Lichter, P. (2014). Decoding the regulatory landscape of medulloblastoma using DNA methylation sequencing. **Nature**. doi: 10.1038/nature13268
- J Weischenfeldt J*, …, **Eils J**, Sültmann H[#], Sauter G[#], Plass C[#], Brors B[#], Yaspo ML[#], Korbel JO[#], Schlomm T[#]: Integrative genomic analyses reveal an androgen-driven somatic alteration landscape in early-onset prostate cancer. Cancer Cell 23 (2), 159-170, 2013.
- Jones DT*, Jäger N*, …, **Eils J**, …, Pfister SM, and Lichter P: Dissecting the genomic complexity underlying medulloblastoma. Nature 488 (7409), 100-105, 2012
- Lawerenz C, **Eils J**, Eils R: iCHIP: Plattform für Datenintegration. GenomExpress, 2007.
- **Eils J***, Lawerenz C*, Astrahantseff K, Ginkel M, Eils R: Databases for Systems Biology. In: A. Kriete and R. Eils, editors, Computational Systems Biology, 2005.

Last Activities in the Scientific Community

Coordination of Data Management for the three German contributions to the International Cancer Genome Consortium (ICGC)   Since 2009

Coordinator for data management of Large Scale data Facility (5PB) at university of Heidelberg   Since 2011

Coordination of Data Management for "Deutsches Epigenome Projekt" (DEEP)Since 2012

Speaker of Heidelberg Clinical Communication Platform (CCP) within „Deutsche Konsortium Translationale Krebsforschung" (DKTK)   Since 2013

Coordinator for data management of Large Scale data Facility (10PB) at DKFZ Since 2013

Coordinator for data management, organization and automatization of clinical Genomics data at DKFZ and NCT (HIPO project, tumor board)   Since 2013

Product owner in Scrum team: software development for genomics management
                                                                       Since 2014

Member of Big Data taskforce at Helmholtz association   Since 2015

Coordinator for data management, organization and automatization of Genomics X-Ten data at DKFZ and DKTK   Since 2015

Current major fields of interest

- Applying Big Data technologies as SAP HANA and IBM Watson within DKFZ and related consortia
- Working at the interface between research institute DKFZ and National Center for Tumor Diseases and university hospital Heidelberg and other university hospitals. Goals once in the fields of cancer, cardio vascular and infection diseases
  - Bringing newest research results closer to clinical routine
  - Bringing vice versa clinical data to researchers' access