

# Dr. Frank Schacherer

Lerchenwinkel 2 - 38324 Kissenbrück - Germany

mobile: +49 163 482 3692

e-mail: [frank@schacherer.de](mailto:frank@schacherer.de)

web: [frank.schacherer.de](http://frank.schacherer.de)

skype, twitter: frankschacherer

## Summary

Ph.D. in bioinformatics with background in large scale data (especially NGS and pathway analysis), software development, innovation and leadership. Successfully established a subsidiary and executed a company turn-around. Managed scientific teams of up to 80 people. More than ten years of international industry experience in biotech and scientific research.

## Specialities

Software development, bioinformatics, NGS, information systems, genomics. Strategy and execution focus. Good communicator, driven to succeed.

## Professional experience

Feb 2010—today

**Biobase GmbH**, Wolfenbüttel, Germany  
Provider of biological databases and tools  
[www.biobase-international.com](http://www.biobase-international.com)

### **Chief Technical Officer (Managing Director)**

Managing the Product, R&D, Software Development, Production, and IT departments. Jointly responsible for setting company strategy and business development. Responsible for scientific research operations, development and product management of big data (next-generation-sequencing) analysis solutions including Genome Trax™, HGMD®.

- Restructured operations for customer orientation and profit. Achieved successful turn-around to profitable business, grew revenue by 17% first year.
- Ran ten national and EU sponsored research projects
- Established agile software development practices
- Developed and launched new product for next-generation sequencing market (Genome Trax™)

Jan 2008—Jan 2010

### **Executive Vice President**

Management of the service and biomarker discovery business  
Responsible for company-wide project management, QA and QC

- Managed customer projects on biomarker discovery, mining services for pathway, patent, and genetic variation data
- Introduced software testing process and usability testing
- Established and trained distributors in China and Japan

- Product management and marketing, for the Human Gene Mutation Database (HGMD®), growing business over 60% year-on-year

Aug 2006—Dec 2007 **Biobase Databases India Private Limited**, Bangalore, India

**Chief Operating Officer**

Built, expanded and managed operations, from 30 to 80 people. Responsible for the Indian subsidiary of Biobase

- The Indian subsidiary supports the entire product and service portfolio of Biobase
- Hired, appraised, developed, and retained talent
- Introduced project management practices for software development and customer service projects

Mar 2005—Jul 2006 **Biobase Corporation**, Beverly, MA, USA

**Director**

Integrated and managed operations, 7 direct reports, 24 people. Responsible for integration of products and operations

- Integration of the recently acquired US subsidiary
- Introduced service business
- Introduced performance metrics

Jul 2002—Feb 2005 **Memorec Biotec GmbH**, Cologne, Germany  
 Provider of microarray data analysis solutions  
[www.miltenyibiotec.com](http://www.miltenyibiotec.com)

**Senior Scientist Bioinformatics**

Designed, implemented and ran the pathway data analysis system and service business for gene expression data (Perl, Python and R-language, MySQL).

Aug 2001—Jun 2002 **SHS**, Cologne, Germany  
 Provider of IT consulting and CRM solutions  
[www.shs.de](http://www.shs.de)

**Consultant**

Integrated IT systems and developed Oracle databases for the telecommunications industry (Oracle PL-SQL, Perl)

Jan 2001—Jul 2001 **Biobase GmbH**, Wolfenbüttel, Germany

2001

**Vice President Network Modeling**

Product management, leading the pathway database group, 6 people

2000

**Software Developer**

Developed and integrated database-driven information systems and web interfaces for biological pathway data (Java, Perl)

## Education

2007	<b>Project Management Institute, USA</b> <b>Project Management Professional (PMP)</b> certification
1998—2000	<b>GBF &amp; Technical University, Braunschweig, Germany</b> <b>Doctoral thesis</b> "An object-oriented database for the compilation of signal transduction pathways" <b>Ph.D.</b> in the natural sciences, "passed with distinction" (A+)
1998	<b>Roche Bioscience, Palo Alto, CA, USA</b> <b>Guest Researcher</b> Signal transduction network analysis, using Boolean networks and Petri net simulations
1991—1997	<b>Free University of Berlin &amp; Hahn-Meitner-Institut, Berlin</b> <b>Diploma of Biochemistry</b> , overall grade "very good" (A)
1990—1991	<b>Computer Center, Albert-Ludwigs-Universitätsklinik, Freiburg</b> System administration, and tech support for workstations at the computer center and for end users
1981—1990	<b>Goethe-Gymnasium, Freiburg</b> <b>Abitur</b> , overall grade 1,0 (A+) Scheffel award for exceptional accomplishments in the German language

## Affiliations

2007—today	Project Management Institute
2006—2008	Indo-German Chamber of Commerce
2005—today	BioPAX initiative for pathway data exchange and semantics
2004—today	International Society for Computational Biology (ISCB)
2000—2001	Coordinator Visualization at the Biopathways Consortium
1998—2012	Bioinformation Systems e.V.

## Languages

German, native speaker  
English, fluently written and spoken  
French, basic knowledge

## Technical competencies

Bioinformatics	NGS data analysis, biological network, graph and pathway analysis, microarray data analysis, data mining (e.g. clustering, classification), ontologies, systems biology
Languages	Perl, SQL, Python, Java, R, C, JavaScript, Visual Basic, PL/SQL
Web standards	HTML, XML, RDF, OWL, Apache, Servlets
Databases	Oracle, MySQL, object-oriented databases, data modeling, database integration, data warehousing

Development	Design, specification writing, prototyping, usability, coding, documentation, code reviews, unit testing, build
Operating systems	Windows, Solaris, Linux
Tools	Change control systems (VisualSourceSafe, CVS, git), bug trackers (Bugzilla), project management software, various bioinformatics, graph analytic and statistical packages, make, Matlab, and MS Office

### **Hobbies & spare time interests**

Reconstruction and sailing of a historic tall sailing ship with the National Park Service, USA; Competing in card-game tournaments on international pro-tour level; Art, design, economics