Welcome
High throughput experimental techniques in genome research - such as DNA sequencing, expression arrays, proteomics - present manifold challenges for algorithmic data analysis and data management. Scientific progress and industrial exploitation of experimental data are dependent on the availability and quality of appropriate bioinformatics techniques. The International NRW Graduate School in Bioinformatics and Genome Research Bielefeld therefore combines the fields of experimental genome research and bioinformatics in a joint educational programme, under the leadership of Prof. Dr. R. Giegerich (Chair of Practical Computer Science and Dean of Studies) and Prof. Dr. A. Pühler (Chair of Genetics). The Graduate School was established at the Bielefeld University by a grant obtained from the ministry of education and research (MSWF), NRW (North-Rhine-Westphalia).

Research Topics
- Expression profiling using macro- and microarrays
- Analysis of genes relevant for the root endosymbioses root nodule and arbuscular mycorrhiza
- Bacterial genome research (e.g. Sinorhizobium meliloti, Corynebacterium glutamicum)
- Proteome research
- Sequence analysis
- Gene prediction
- Modeling and simulation of metabolic and gene regulative networks
- Integration of molecular biology databases
- “Virtual cells”
- Molecular modelling
- Data mining in bioinformatics

Education
The International NRW Graduate School in Bioinformatics and Genome Research presently accommodates
- a faculty formed from distinguished researchers in the fields of computer science, biology, mathematics, chemistry, and physics
- distinguished researchers as international fellows of the faculty
- a 3-years Ph.D. programme in Bioinformatics and Genome Research, currently 21 Ph.D. students receiving full scholarships of 1500 EUR/month
- 8 scientific, technical and administrative staff positions
- a course programme tailored to students' profiles
- a series of workshops and a guest programme.