

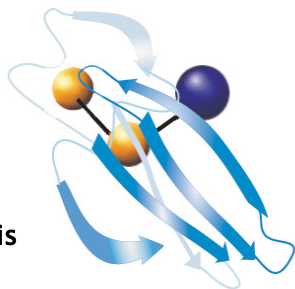
Over the past decade methods and technologies in functional genomics have developed rapidly. As more than 400 genomes have been sequenced until today the main focuses are the questions about function, characteristics and interactions of genes and their products.

The development and application of modern technologies which requires a high degree of specialised knowledge are of essential importance. The future research is closely linked with the application of these cutting-edge technologies .

The workshop „**Molecular Interactions**“ will give you an insight to the most recent developments in the area of technologies for high throughput, multiparallel and single cell or single molecule analysis.

The workshop will present recent trends in the technology development of the life sciences in areas like

- **bioinformatics**
- **systems biology**
- **automation processes**
- **mass spectrometry**
- **in vivo methods**
- **single molecule analysis**



The *bioinformatics* field is expanding still very fast and introduces a variety of new approaches and tools to improve data analysis and data mining.

*Systems biology* research predominantly deals with the development of new approaches and their application to the analysis and reconstruction of molecular networks for signal processing and regulation of cellular processes. With the workshop we would like to give you a general idea of systems biology topics.

*New automation processes* help to overcome limitations in the analytical process and provide now the opportunity to generate large data sets with high accuracy and throughput.

*Mass Spectrometry* is one of the most dynamic fields still in respect to technical improvement and applications. A selection of recent developments will be presented in the workshop.

*In vivo methods* will improve the insight view of metabolic processes and regulation in living systems and allow monitoring of processes in a much better resolution.

In the past appropriate analytical tools have been missing for low abundance and *single molecules*. We will present technologies available now for analysis in this area.

The workshop "**Molecular Interactions**" invites young scientists, graduate students, postgraduate students and postdocs to become acquainted with the state-of-the-art methods in functional genomics with emphasis on practical aspects.

Scientists with an international reputation in their field of research will share their knowledge focused on the Topic "*from molecules to systems*". They will present the most recent developments in academia and industry.

For the second time a "Career Fair" will be included in the workshop program where candidates and employers can meet. We offer information about scholarships, funding opportunities in seminars and discussions, but also counselling interviews on job opportunities and application strategies.

**Terms of Payment:**

**Euro 60**

**Reduction for students: Euro 30**

(Registration before July, 11<sup>th</sup> 2008)

Euro 70, Students Euro 40 (late registration)

**Coffee breaks, refreshments and lunch will be provided.**

For Registration Please consult our webpage:  
[www.molecularinteractions.de](http://www.molecularinteractions.de)

## Workshop Location:

The workshop will take place at the  
Henry Ford Building  
Freie Universität Berlin  
Garystr. 35  
14195 Berlin, Germany



## Accommodation:

Best Western Premier  
Hotel Steglitz International  
Albrechtstr. 2  
12165 Berlin  
Fon: +49 30 7900 5550  
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We are very much looking forward to see you at  
the workshop "Molecular Interactions"!

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# 4<sup>th</sup> Workshop MOLECULAR INTERACTIONS

## From molecules to systems

July 23-25, 2008

Henry Ford Building  
Freie Universität Berlin