



## Rückblick 2. Weimar Conference of Genetics



### Genetic Variation in Man and its Functional Implications

Bauhaus-Universität, Weimar, Germany

September 25 - 27, 2002

It has become clear that the collective genome is just a prototype for the individual human genomes with regard to the sequential, functional and regulatory aspects of our genes. There are enormous person-to-person variations in sequence and position of individual genes.

In recent years, these observations have created tremendous interest mainly into two research directions, i.e. what are the mechanisms for the evolution of such a variation on the molecular and cytogenetic levels and to which extent does this individual genetic variation affect physiological reactions in health and disease. In drug research, genetic variation between populations and individuals may help to explain the differential responsiveness of individuals in aspects such as xenobiotics adsorption, distribution, metabolism and excretion. This is relevant for both established drugs and lead compounds in clinical development (pharmacogenetics). It may help to develop predictions on the potential toxic effects of single drugs or combination therapies in genetically predisposed patients (toxicogenomics).

This conference aims to present the expanding scientific information on mechanisms of genetic diversification in man and its driving forces. It also should develop a dialogue with drug research on functional genomics in a given individual genomic setting.

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#### The conference was organised in five sections, i.e.

- | Diversity of genes and genomes
- | Mechanisms for creation of diversity
- | Correlation between genetic variation and disease phenotypes
- | Pharmacogenetics
- | Genotype-phenotype relation and modifying mechanisms

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#### Organized by

Gesellschaft für Genetik (GfG) e.V., Giessen

President: **Rudi Balling**

Web: <http://www.uni-giessen.de/gfg>

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## Scientific Committee

**Margret Hoehe**, Max-Planck-Institut für Molekulare Genetik, Berlin

**Rolf Knippers**, Institut für Genetik, Universität Konstanz

**Siegfried Neumann**, Office of Technology, Merck KGaA, Darmstadt

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## Invited speakers included:

**Rudi Balling**, *Braunschweig-Stoeckheim*

**Jaques Beckmann**, *Rehovot*

**Helmut Bloecker**, *Braunschweig-Stoeckheim*

**Peer Bork**, *Heidelberg*

**Jürgen Borlak**, *Hannover*

**Jochen Graw**, *Neuherberg*

**Ines Hellmann**, *Leipzig*

**Margret Hoehe**, *Berlin*

**Jörg Hoheisel**, *Heidelberg*

**Martin Hrabe de Angelis**, *Munich*

**Kenneth Kidd**, *New Haven*

**Christoph Klein**, *Munich*

**Doron Lancet**, *Rehovot*

**Hans Lehrach**, *Berlin*

**Klaus Lindpaintner**, *Basel*

**Alexander Olek**, *Berlin*

**Jürgen Ott**, *New York*

**Ivar Roots**, *Berlin*

**H. Hilger Ropers**, *Berlin*

**Manfred Schwab**, *Heidelberg*

**Raymond White**, *Salt Lake City, Fremont*

**Marie-Luise Yaspo**, *Berlin*

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## Conference Location:

### Bauhaus Universität Weimar

Marienstrasse 13, 99425 Weimar/Thuringia, Germany

September 25-27, 2002

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## Sponsored by:

- Verein zur Förderung der Humangenomforschung e.V.
- Calbiochem-Novabiochem GmbH, Schwalbach
- The list of sponsors will be expanded

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## Travel:

### By Car

Weimar is conveniently located close to the highway system (Autobahn A9/A4)

For more details: <http://www.reiseplanung.de>

### By Train

Participants from continental Europe are advised to use the European/German railway system. Major trains from Frankfurt, Stuttgart and Hannover stop at the Weimar rail road station. Please check train-connections at: <http://www.bahn.de>

### By Air

Closest airports are

Erfurt (to Weimar about 0:45 hours by train)

Leipzig (to Weimar about 2:15 hours by train)

Frankfurt/M (to Weimar about 2:45 hours by train)

Berlin (to Weimar about 3:00 hours by train)

**Local**

The conference will be held at the Bauhaus University, which is located close to the center of the city.

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**Conference Secretary / Registration Office:**

**Weimar Conference of Genetics 2002**

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