

Under the patronage of the Berlin Senator for Science, Health and Care,

Dr. Ina Czyborra

30th LEIBNIZ CONFERENCE OF ADVANCED SCIENCE

70 years of DNA - the Era of Translation

55 years RNA, 40 years PCR, 20 years primary sequence Human genome

6th October 2023

**Seminaris Campus Hotel, Berlin-Dahlem
Berlin, Germany**



- ANNOUNCEMENT -

Organizer:

LEIBNIZ-INSTITUT
für interdisziplinäre Studien e.V. (LIFIS)
Berlin
www.leibniz-institut.de

in cooperation with FU Berlin, Regionalinkubator Berlin Südwest,

Geschäftsstelle ZUKUNFSORTE Berlin und



Partners:

DiagnostikNet BB, bbb-life, Vietnam Medicine, fm-worx.de, ...

Programme content:

With the 30th Leibniz Conference, the Leibniz Institute for Interdisciplinary Studies (LIFIS e.V.) is honouring the 70th anniversary of the discovery of DNA, the central molecule of genome research. This discovery in molecular biology was fundamental for today's biomedicine and is of infinite importance for human society. Today, modern medicine is no longer conceivable without genome research.

As in the previous conference "2013-Year of DNA", the selected speakers for this one-day conference represent the current state of the different fields of today's genome research and show the most important successes of the translation of their results for the prevention and cure of diseases before and during the global pandemic. The lectures will give an overview of the different forms and the importance of DNA and RNA, modern trends in the analysis of gene data, the use of the results for biology, medicine, social and engineering sciences. Topics include the Neanderthal genome, mitochondrial DNA, gene expression and non-coding RNA, the Human Genome Project, evolutionary genetics, DNA nanomachines, amplification techniques, next-generation sequencing, genetic fingerprinting, personal genomics, nucleic

acid drugs and vaccines, therapeutic modifications of DNA, stem cells and conservation of animal genomes.

The lectures will be given by internationally renowned specialists from research and development and represent a broad spectrum of currently applied methods. This conference offers an excellent opportunity for a direct exchange of experience with the pioneers of these established and new techniques.

For professionals from all areas of research and development in the field of molecular biology, this scientific meeting is an excellent opportunity to become familiar with current and future methods. Because of the broad application of these biochemical methods, this conference is aimed at specialists and interested parties from a wide range of scientific fields: Agricultural and nutritional sciences, biochemistry, biotechnology, genetics, molecular biology, medicine and pharmacy.

Parallel to the scientific programme, there will again be an exhibition of innovative diagnostic companies from Germany and abroad and a poster exhibition.

On the day before the 30th Leibniz Conference "70 Years of DNA", a separate satellite workshop "*Labs of Future - Future of Labs*" will take place at the PROFUND Villa in Berlin-Dahlem (separate registration required). There, the future of diagnostic laboratories through the use of multi-omics technologies will be discussed.

A welcome event is planned to welcome external guests and speakers, location still open.

Provisional topics of the Leibniz Conference shall be:

Evolution of the genomes

- Prehistoric DNA
- DNA Nanotechnology
- Mitochondrial DNA
- Integrated Genomes
- Systems Biology
- Artificial organisms
- Past and future pandemics

The diversity of RNA

- Gene expression
- microRNA and other non-coding RNA molecules
- Silencing RNA

DNA analytics

- New DNA detection techniques
- Sequencing of chromosomes
- DNA diagnostics in transition, precision medicine
- Spatial Transcriptomics and Genomics
- Bioinformatics and AI

Medical DNA Technology

- Innovative therapeutics
- Biobanking
- Stem Cell Therapy

- CAR-T cells
- CRISPR-CAS
- Ethical Aspects

Conference Language: English/German (Presentation slides in English)

Programme Advisory Board:

D. Laßner (Chairman), LIFIS e.V. und DNA24.net, Berlin, Germany
 F. Heyd, FU Berlin, RNA Biochemie
 J. Hollidt, In.vent Diagnostica GmbH, Hennigsdorf, Germany
 B. Junghans, LIFIS e.V., Dresden, Germany
 N. A. Tien, VINMEC Hospital, Hanoi, Vietnam
 W. Regen, LIFIS e.V., Berlin und Chemnitz
 B. Samatanga, Biotech Institute, Harare, Zimbabwe
 F. Schaal, Regionalinkubator Berlin SÜDWEST, Berlin, Germany
 S. Terberl, Geschäftsstelle ZUKUNFTSORTE Berlin, Berlin, Germany
 L.Vallier, MPI f. Mol. Genetik und BCRT, Berlin, Germany
 V. Velavan, Uni Tübingen und VG Care, Hanoi und Tübingen, Germany/Vietnam

Invited speakers:

R. Baber (Leipzig); M. Benecke (Köln); F. Bier (Potsdam); R. Dawkins (UK); E. Charpentier (Berlin); J. Claverie (France); M. Drosten (Berlin); H. Fechner (Berlin); A. Gerth (Leipzig); T. Grunwald (Leipzig); J. Hollidt (Hennigsdorf); Hummel (Berlin); B. Kaufert (Berlin); J. Krause (Jena); J. Kureck (Berlin); S. Pääbo (Leipzig), N. Rajewski (Berlin); B. Samatanga (Harare); Ashley Sanders (Berlin); J. Strauss (Potsdam); E. Southern (UK), N. A. Tien (Hanoi) and others

Dates:

Registrations for participation - with or without a lecture - are requested as of now.
 - Applications for presentations until 30.08.2023
 - Abstract of the presentations (max. 800 characters) until 20.09.2023

Organisational:

Please direct enquiries about the scientific conference to:

Dr. Dirk Lassner
Email: info@dna24.net
 DNA24.net-the webportal for DNA technology

Please send registrations for participation to:

Leibniz-Institut für Interdisziplinäre Studien (LIFIS) e.V.
 Frau Christina Schuck
 Fax: +49(0)30 / 63 92 80 182
 Albert-Einstein-Str 16, D – 12489 Berlin-Adlershof
Email: post@leibniz-institut.de
www.leibniz-institut.de/leibniz-konferenz-70-jahre-dna/

For registration details, please see the registration form.

* * *

OUR SPONSORS

PLATIN SPONSORS:



GOLD-SPONSOREN:



SILBER SPONSORS:



OTHER SUPPORTER:

