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Max-Planck-Institute for Neurobiology
Infenion Technologies AG

Web: www.bernstein-zentren.de

This BMBF-Initiative addresses a central element of the lead vision "Das Denken verstehen", which has been developed within the FUTUR process (see also www.futur.de)

* funding is planned to begin in spring 2005

Venue

Magnus-Haus Berlin • Am Kupfergraben 7 • D – 10117 Berlin

Conference Secretariat:

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Local map of the City Center of Berlin

S/U-Bahn: Stop "Friedrichstrasse" • Bus 100: Stop "Staatsoper"

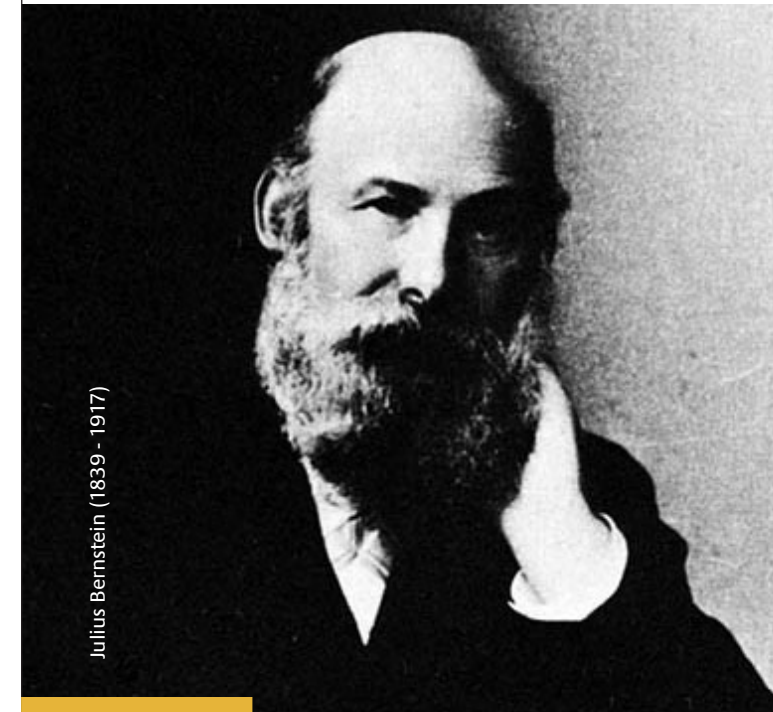


Bundesministerium
für Bildung
und Forschung

National Network for Computational Neuroscience

**Bernstein Centers for
Computational Neuroscience**

**Kick-off meeting
Oct. 14th – 16th, 2004
Berlin**



Julius Bernstein (1839 - 1917)

FORSCHUNG

Deutschland. Das von morgen.

National Network for Computational Neuroscience

The Federal Ministry of Education and Research (BMBF) has started an initiative to create a “National Network for Computational Neuroscience”, aimed at achieving major breakthroughs in the understanding of cognitive functions by fostering the young and highly dynamic discipline of “Computational Neuroscience”. This discipline combines experiments with computer simulation and data analysis on the basis of well-defined theoretical concepts, making available a scientific language and methodology that can be used across disciplines that range from neurobiology, cognitive science, systems biology to information technology.

The “National Network for Computational Neuroscience” seeks to concentrate the outstanding neuroscientific expertise available in Germany and integrate theoretical approaches more closely, so as to create a common structure for collecting and networking neurocomputational findings and for transferring new findings to technological applications. The development of interdisciplinary training programs in the field of Computational Neuroscience is another integral part of the concept. The central elements of the National Network are four Centers for Computational Neuroscience that will be connected through the exchange of data, tools for data analysis, computer models and theoretical approaches.

Bernstein Centers for Computational Neuroscience

It was the physiologist Julius Bernstein (1839 - 1917) whose “Membrane Theory” provided the earliest biophysical explanation of propagating action potentials, constituting the first truly quantitative theory in electrophysiology. In honor of this historical achievement, the BMBF will name the Centers “Bernstein Centers for Computational Neuroscience”.

The aim of the inaugural meeting will be to award the Centers this joint name, introduce them to the scientific community and the public, and stimulate national and international scientific cooperation and collaboration.

Program

Thursday, October 14th

- 9.30 a.m. MinDirig PD Dr. Peter Lange (BMBF):
Welcome Address, Award of Certificates
- 10.00 a.m. Prof. Dr. Ernst-August Seyfarth (University
Frankfurt/Main): “Julius Bernstein – Pioneer
Neurobiologist and Biophysicist”
- 11.00 a.m. Introduction of the Bernstein Center Berlin: “Behavioral
Reliability despite Neural Variability” (1st part)
- 1.00 p.m. Lunch break
- 2.30 p.m. Introduction of the Bernstein Center Berlin
(2nd part)
- 4.30 pm End

Friday, October 15th

- 9.00 a.m. Introduction of the Bernstein Center Freiburg:
“Neural Dynamics”
- 1.00 p.m. Lunch break
- 2.30 p.m. Introduction of the Bernstein Center Göttingen:
“Adaptive Neural Systems”
- 6.30 pm End

Saturday, October 16th

- 9.00 a.m. Introduction of the Bernstein Center Munich:
“Neural Representations of Space-Time”
- 1.00 p.m. Lunch break
- 2.30 p.m. Joint Visions of the Bernstein Centers:
Networking and Applications
- 6.30 pm End

Bernstein Centers for Computational Neuroscience

Berlin

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Charité – University Medicine Berlin
Technical University Berlin
Free University Berlin
Fraunhofer FIRST
Max-Delbrück-Center for Molecular Medicine
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Freiburg

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Participating Institutions:
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University Clinic Freiburg
Multi Channel Systems GmbH, Reutlingen
Honda Research Institute Europe GmbH,
Offenbach