

## Drugs, Living Things and the Problems of Standardization

Technische Universität Braunschweig  
25 - 27 March 2010

This workshop will focus on the scientific and industrial production as well as on the marketing of 'biologicals', thereby capturing standardization problems and the consumer perspective. We apply a broad definition of biologicals as agents extracted from or generated by biological material. Examples are vaccines and sera, hormones, vitamins, enzymes, macromolecules, bodily fluids and active substances from medicinal plants.

Recent historical work on 20<sup>th</sup> century pharmacy has mainly focussed on the industrial production of synthetic chemical compounds. Yet, the 'laboratory of nature' – the origin of many new drugs up to the present day – has stayed a point of reference for pharmaceutical practice and for the discussion on drug use, abuse, effects and side effects. The focus of this workshop on 'biologicals' opens up different approaches to thinking about innovation in terms of discourse, production and advertising. The workshop will present recent work in the history of 'biological' drugs.

<http://drugs.pharmgesch-bs.de>



TECHNISCHE UNIVERSITÄT  
CAROLO-WILHELMINA  
ZU BRAUNSCHWEIG

- **Organization:**

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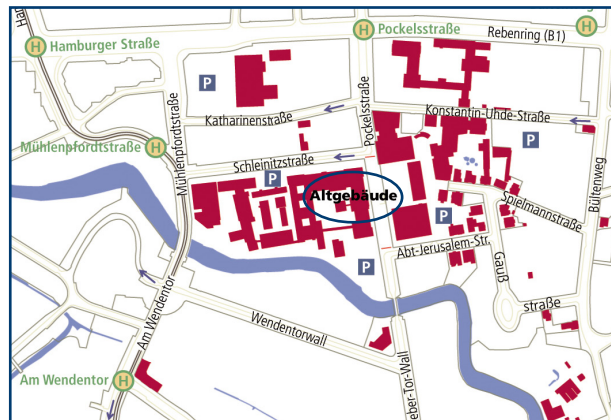
Pharmazie- und Wissenschaftsgeschichte  
pharmazie in braunschweig

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- **Congress venue:**

Neuer Senatsitzungssaal, Zentralcampus (Altgebäude)  
Main Building of the Technische Universität Braunschweig  
Pockelsstr. 4, first floor  
38106 Braunschweig



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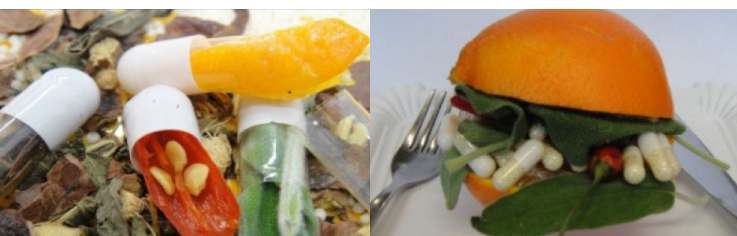
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# Drugs, Living Things and the Problems of Standardization



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## Thursday, 25.03.2010

- **15:30 - 16:00**  
Welcome by Vice President of TU Braunschweig  
Prof. Dr. A. M. Bahadir  
Introductory remarks

### Panel 1. The Body Politics of Biologicals

- **16:00 - 16:45**  
Heiko Stoff (TU Braunschweig)  
Wirkstoffe. The Reciprocal Implication of Efficiency and Deficiency in Germany, 1900 - 1950
- **16:45 - 17:30**  
Beat Bächli (Universität Bielefeld)  
„Cultures of Control“: Coca, Vitamin C, and the Objectivation of Optimisation, 1880 - 1940

17:30 - 18:00: Break

- **18:00 - 18:45**  
Sven Bergmann (Humboldt Universität zu Berlin)  
Standards, Differences, Analogies in Manipulating Two Sorts of Gametes in the IVF Laboratory
- **18:45 - 19:30**  
María Jesús Santesmases (CSIC, Madrid)  
Biologicals as Standard Innovators: Practices with Colchicine in Cereals and Human Cells in the 1950s

## Friday, 26.03.2010

### Panel 2. Producing Nature

- **9:30 - 10:15**  
Michael Worboys (University of Manchester)  
Translating Laboratory Experimental Work into Commercial Scale Production: Distemper Vaccination, 1926 - 1932

- **10:15 - 11:00**  
Jonathan Simon (Université de Lyon)  
Local Technique: the Anti-diphtheria Serum in the Lyon Area

11:00 - 11:30: Break

- **11:30 - 12:15**  
Pim Huijnen (Universiteit van Amsterdam)  
The Science of Measuring Vitamins Quality Control and Competition in the Dutch Vitamin Industry before the Second World War
- **12:15 - 13:00**  
Lea Haller (ETH Zürich)  
Blurred Signs: Cortisone Therapy, Suppressed Symptoms and Untoward Reactions

13:00 - 14:30: Lunch

### Panel 3. The Nature of Biologicals

- **14:30 - 15:15**  
Axel Helmstädter (Universität Marburg)  
Antidiabetic Medicinal Plants between phytotherapy and Lead Structure Research
- **15:15 - 16:00**  
Jean Paul Gaudillière (CERMES, Paris)  
Biologicals in the Colonies: E. Perrot, Medicinal Plants and the Industrial Re-ordering of Pharmacy

16:00 - 16:30: Break

- **16:30 - 17:15**  
Alexander von Schwerin (IFK Wien/TU Braunschweig)  
„Natural“ Low Doses: the Case of Radium Therapy
- **17:15 - 18:00**  
Hans Ebbers (Universiteit Utrecht)  
Challenges in Standardizing Safety Assessments of Biopharmaceuticals, the Case of EPREX Associated Pure Red Cell Aplasia

## Saturday, 27.03.2010

### Panel 4. The Making of (Contested) Biologicals

- **9:00 - 9:45**  
Sophie Chauveau (Université Lyon 2 et LARHRA)  
Human Tissues and Organs: Collection, Uses, Standardization and „Commodification“ of Human Body
- **9:45 - 10:30**  
Teresa Ortiz-Gómez, Agata Ignaciuk (Universidad de Granada)  
The Debate on Oral Contraception in 1970's Spain: Media, doctors, and feminists

10:45 - 11:00: Break

- **11:00 - 11:45**  
Marion A. Hulverscheidt (Charité Berlin)  
Smallpox Vaccine Production – Industrial Calves and the Fear of German Public, 1920 - 1965

11:45 - 12:15: Lunch

- **12:15 - 13:00**  
Ulrike Thoms (Charité Berlin)  
Insulin, the Patient and the Limits of Standardization, 1923 - 1980
- **13:00 - 14:30**  
Commentary by Axel Hüntelmann (Universität Bielefeld) and Christoph Gradmann (Universitet I Oslo) followed by concluding discussion