

Gottfried Wilhelm Leibniz Universität Hannover,  
Institut für Biostatistik, Herrenhäuser Straße 2, D-30419  
Hannover

Naturwissenschaftliche  
Fakultät

## Workshop "Statistical aspects of in-vitro tox assays"

Leibniz University Hannover

February 5, 2009; 10.30 - 17.45 h

Institut für  
Biostatistik

bearbeitet von:  
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### Part I The projects

- Hothorn/Leibniz University:  
**The statistical problems of the ESNATS project**
- Kopp-Schneider/ DKFZ :  
**The statistical problems of the Predict-IV project**

### Part II Presentation of recent results (max 15 mins)

- Ritz/University of Copenhagen:  
**Evaluation of a class of semi-parametric dose-response models**
- Schulz/BayerSchering:  
**The algae growth inhibition test - robust initial values for parameter estimation**
- Bornkamp/TU Dortmund:  
**Flexible Bayesian regression under shape constraints**
- Freis & Ickstadt/TU Dortmund:  
**Klassifizierung toxischer Substanzen anhand von RNA-Expressionsprofilen**
- Kopp-Schneider/DKFZ :  
**Assessing agreement of continuous measurements**

#### Lunch break

- Weimer/DKFZ :  
**Repeatability and reproducibility of dose-response experiments**

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- Schaarschmidt/LUH:  
**Finite confidence intervals for predictive values for a binary diagnostic test**
  
- Gerhard/LUH:  
**Evaluation of p>n microarray data**
  
- Rohmeyer/LUH:  
**stat4tox: a prototype GUI for R libraries**

### **Part III Discussion of joint/coordinated future work**

Top 1: **Robust EC50 estimation for replicated microtiter bioassays**

Top 2: **Estimation of assay accuracy: sens/spec/predictive values/power**

Top 3: **Evaluation of (Affi) microarray data using p>n approaches**

Top 4: **Demonstrating inter-laboratory similarity**

Top 5: **Approaches for method comparisons**

Top 6: **Using GUIs**

### **Part IV First schedule of a joint summer school in 2009**