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13/01/2009

Workshop "Statistical aspects of in-vitro tox assays"

Leibniz University Hannover

February 5, 2009; 10.30 - 17.45 h

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