List of Publications

Florian Klinglmueller - April 2015

Doctoral thesis

Flexible tests for clinical trials testing multiple hypotheses

F. Klinglmueller

PhD Thesis: Faculty of Mathematics and Geodesy - Vienna University of Technology - Supervisor: Martin Posch *(2013)*

Diploma thesis

Statistical Methods for Class - Discovery and Analysis in Gene Expression Profiling Studies

F. Klinglmueller

Master Thesis: Faculty of Mathematics and Geodesy - Vienna University of Technology - Supervisor: Peter Filzmoser and Martin Bilban *(2007)*

Articles on statistical methodology

Graphical approaches for multiple comparison procedures using weighted Bonferroni, Simes, or parametric tests

F. Bretz, M. Posch, E. Glimm, F. Klinglmueller, W. Maurer, K. Rohmeyer

Biometrical Journal *53.6 (2011) pp. 894–913. DOI: 10.1002/bimj.201000239*

Cross-platform comparison of microarray data using order restricted inference

F. Klinglmueller, T. Tuechler, M. Posch

Bioinformatics *27.7 (2011) pp. 953–960. DOI: 10.1093/bioinformatics/btr066*

Simultaneous confidence intervals that are compatible with closed testing in adaptive designs

D. Magirr, T. Jaki, M. Posch, F. Klinglmueller

Biometrika *100(4) (2013) pp. 985–996. DOI: 10.1093/biomet/ast035*

Adaptive graph-based multiple testing procedures

F. Klinglmueller, M. Posch, F. Koenig

Pharmaceutical Statistics *13.6 (2014) pp. 345–356. DOI: 10.1002/pst.1640*

Applied articles

Identification of novel trophoblast invasion-related genes: heme oxygenase-1 controls motility via peroxisome proliferator-activated receptor

M. Bilban, P. Haslinger, J. Prast, F. Klinglmueller, T. Woelfel, S. Haider, A. Sachs, L.E. Otterbein, G. Desoye, U. Hiden

Endocrinology *150.2 (2009) pp. 1000–1013. DOI: 10.1210/en.2008-0456*

Intraoperative administration of inhaled carbon monoxide reduces delayed graft function in kidney allografts in Swine

DW Hanto, T. Maki, MH Yoon, E. Csizmadia, BY Chin, D. Gallo, B. Konduru, K. Kuramitsu, NR Smith, A. Berssenbrugge

American Journal of Transplantation *10.11 (2010) pp. 2421–2430. DOI: 10.1111/j.1600-6143.2010.03289.x*

Microarray analysis identifies distinct gene expression profiles associated with histological subtype in human osteosarcoma

B. Kubista, F. Klinglmueller, M. Bilban, M. Pfeiffer, R. Lass, A. Giurea, P.T. Funovics, C. Toma, M. Dominkus, R. Kotz

International Orthopaedics *35.3 (2011) pp. 401–411. DOI: 10.1007/s00264-010-0996-6*

Response Prediction to Neoadjuvant Chemotherapy: Comparison between Pre-Therapeutic Gene Expression Profiles and In Vitro Chemosensitivity Assay.

CF Singer, F. Klinglmueller, R. Stratmann, C. Staudigl, A. Fink-Retter, D. Gschwantler, S. Helmy, G. Pfeiler, AC Dressler, C. Sartori, M. Bilban

PLoS ONE *8.6 (2013). DOI: 10.1371/journal.pone.0066573*

Working papers

A polyhedral programming approach to testing of one-sided linear contrast hypotheses
F. Klinglmueller, W. Maurer
working paper *(2014)*

Matroids and testing in families of algebraically dependent and logically related hypotheses
F. Klinglmueller, W. Maurer
working paper *(2014)*

Estimation after blinded interim analysis
F. Miller, F. Klinglmueller, F. Koenig, M. Posch
working paper *(2014)*

Publications in conference proceedings

EMERALD microarray platform comparison based on hypothesis tests under order restrictions
F. Klinglmueller, T. Tuechler
CAMDA Conference Proceedings, 2008: pp. 30–34. URL: http://camda.bioinfo.cipf.es/camda08/_media/camda_proceedings.pdf

Exploiting the EMERALD mixture design for model based microarray platform comparisons by Bayesian inference of technical and biological variance components
T. Tuechler, F. Klinglmueller, P. Sykacek, DP. Kreil
CAMDA Conference Proceedings, 2008: pp. 35–40. URL: http://camda.bioinfo.cipf.es/camda08/_media/camda_proceedings.pdf

Published software

orQA: Order Restricted Assessment Of Microarray Titration Experiments
F. Klinglmueller
GNU R-package, Version 0.2.1, 2010
URL: http://cran.r-project.org/web/packages/orQA/

gMCP: Graph Based Multiple Comparison Procedures
K. Rohmeyer, F. Klinglmueller, B. Bornkamp
GNU R-package, Version 0.8-7, 2014
URL: http://cran.r-project.org/web/packages/gMCP/

Software manuals

F. Klinglmueller. *Weighted parametric tests defined by graphs*. GNU R-package Vignette: gMCP Version 0.8-0. CRAN. 2012. URL: http://cran.r-project.org/web/packages/gMCP/vignettes/parametric.pdf.

Talks

EMERALD microarray platform comparison based on hypothesis tests under order restrictions
F. Klinglmueller, T. Tuechler
Critical Assessment of Microarray Data Analysis Conference, Vienna, Austria, 2008

Assessing Cross-Platform Consistency of Microarray Technologies Using Tests Against Ordered Alternatives
F. Klinglmueller, T. Tuechler, M. Posch
55. Biometrisches Kolloquium, Hannover, Germany, 2009

Best practices for microarray data - some results from recent technology validation attempts
F. Klinglmueller, T. Tuechler, M. Posch
IBS ROeS Meeting, Linz, Austria, 2009

Evaluation of microarray titration experiments by non-parametric combination tests
F. Klinglmueller, T. Tuechler, M. Posch
Adaptive Design and Multiple Comparison Procedures Workshop, Warwick, UK, 2009

Cross Platform Comparison Of High-Throughput Genetic Measurements Using Order Restricted Inference
F. Klinglmueller, T. Tuechler, M. Posch

EMS, Athens, Greece, 2010

Cross platform comparison of microarray data using order restricted inference
F. Klinglmueller, T. Tuechler, M. Posch
LASR, Leeds, UK, 2010

A graphical approach for adaptive clinical trials testing multiple hypotheses
F. Klinglmueller, F. Koenig, M. Posch
IBS-CEN-Meeting, Zurich, Switzerland, 2011

A graphical approach for adaptive clinical trials testing multiple hypotheses
F. Klinglmueller, F. Koenig, M. Posch
MCP-Conference, Washington DC, USA, 2011

A graphical approach for adaptive clinical trials testing multiple hypotheses
F. Klinglmueller, F. Koenig, M. Posch
Adaptive Design and Multiple Comparison Procedures Workshop, Lancaster,, U., 2011

Flexible tests for clinical trials with complex multiple hypotheses
F. Klinglmueller, F. Koenig, M. Posch
Special Seminar: Dep. Biostatistics, Harvard School of Public Health, Boston (MA), USA, 2011

A graphical approach for adaptive clinical trials testing multiple hypotheses
F. Klinglmueller, M. Posch
EMR-IBS, Crete, Greece, 2011

Cross Platform Comparison Of Microarray Data Using Order Restricted Inference
F. Klinglmueller, T. Tuechler, M. Posch
MCP-Conference, Washington DC, USA, 2011

Testing primary and secondary endpoints in adaptive designs with sample size reassessment for promising interim results
F. Klinglmueller
Adaptive Design and Multiple Testing Workshop, Heidelberg, Germany, 2012

Weighted Adaptive Closed Tests for Clinical Trials Testing Complex Multiple Hypotheses
F. Klinglmueller, F. Koenig, M. Posch
Invited talk: JSM, San Diego, USA, 2012

Simultaneous confidence intervals for adaptive graph-based multiple testing procedures
F. Klinglmueller
IBS ROeS Meeting, Dornbirn, Austria, 2013

Adaptive graph-based multiple testing procedures
F. Klinglmueller, F. Koenig, M. Posch
Invited talk: IBS ROeS Meeting, Dornbirn, Austria, 2013

Adaptive designs for confirmatory clinical trials
F. Klinglmueller
Seminar, Dept. Statistical Sciences, University of Padova, Padova, Italy, 2014

Matroids & testing in families of algebraically dependent and contextually related hypotheses
F. Klinglmueller, W. Maurer
60. Biometrisches Kolloquium, Bremen, Germany, 2014

Estimation after blinded interim analysis
F. Klinglmueller, M. Posch, F. Koenig, F. Miller
ISCB - Vienna, Austria, 2014

Adaptive graph-based multiple testing procedures
F. Klinglmueller, M. Posch
Short Course: Austria - Japan Joint Statistics Workshop, 2015