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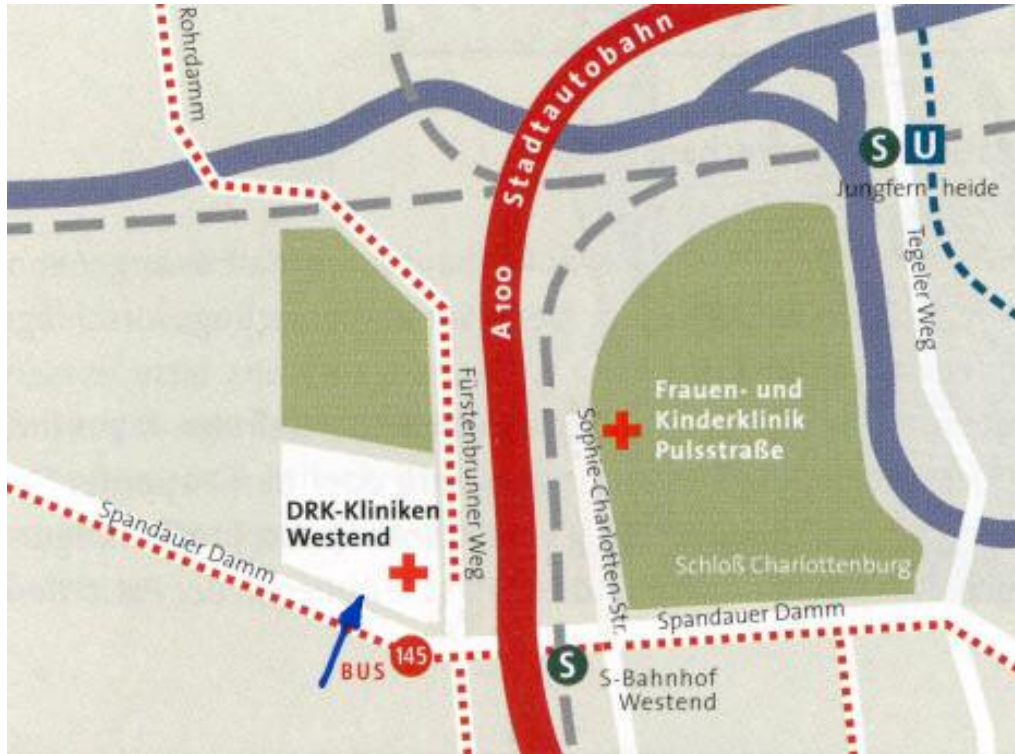
Charité

INTERNATIONAL BIOMETRIC SOCIETY

MCP 2000

2nd International Conference on Multiple Comparisons-
with medical applications

Humboldt University/ Charité, Berlin, Germany, 25-28 June 2000

PROGRAM

PUBLIC TRANSPORTATION:

S-Bahn-Station Westend (+3 min walking) or Bus 145 directly at DRK

From Tegel Airport please use a taxi (less than DEM 30) or Bus X9 (3 stations) or Bus 109 (5 Stations) until S-Bahn Jungfernheide, switch to S4 (direction Bernau/Buch), S45 (direction Schönefeld) or S46 (direction Königswuster-hausen) one station until Westend (Conference site) or two stations until Witzleben (Hotel IBIS) (DEM 3.90 or 7.80 24h-ticket).

The IBIS hotel is near ICC (Internat. Conference Center- Messe). From the hotel to conference site please use S-Bahn (one station) or Bus 139 (or you can even walk)

CAR:
Use Autobahn A100 until crossing Spandauer Damm. Parking lots are available in the DRK-Kliniken ONLY Sunday; Monday-Wednesday try to find one in the neighborhood.

International Scientific Program Committee

Chairperson: Ludwig A. Hothorn (University of Hannover, Germany)

Members: Ajit Tamhane (Northwestern University, USA)
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Peter Westfall (Texas Tech University, USA)
Yoav Benjamini (Tel Aviv University, Israel)

LOCAL ORGANIZING COMMITTEE
K.-D. Wernecke (Humboldt University, Germany)

CONFERENCE SITE:

DRK-Kliniken Westend
Building S (*Aula*)
Spandauer Damm 130 (Main entrance)
D-13344 Berlin

SCIENTIFIC PROGRAM

Sunday, June 25

SESSION 1: NEW APPROACHES

14.00-14.10 h   Introduction

14.10-14.45 h   **Juliet Popper Shaffer** (University of Berkeley, USA)
Directional vs. Nondirectional Inference: Exploration of Their Relations and Suggested Compromises

14.50-15.10 h   **Yosef Hochberg** (Tel Aviv University, Israel)
On Posterior P-values

15.15-15.35 h   **Yoav Benjamini** (Tel Aviv University, Israel)
The multiplicity problem in scientific research: what is being done about it - and what could be done instead.

15.40-16.00 h   **Jason C. Hsu, James Rogers** (Ohio-State University, USA)
Multiple comparisons of biodiversity

Coffee break

(Speakers are underlined)

Sunday, June 25

SESSION 2: VERY LARGE MULTIPLICITY PROBLEMS AND FDR

16.35-17.10 h **Felix Abramovich, Yoav Benjamini** (Tel Aviv University, Israel), **David Donoho, Iain Johnston** (Stanford University, USA)
Adapting to unknown sparsity by control of the False Discovery Rate

17.15-17.35 h **V. Guiard** (FBN Dummerstorf, Germany)
Multiple Test Problems in Detecting of Genes - a small overview

18.05-18.25 h **Yekutieli D., Benjamini Y**. (Tel Aviv University, Israel)
Genetic dissection of quantitative traits using the False Discovery Rate criterion

18.30-18.50 h **William C. Horrace** (University of Arizona,USA)
On the Ranking Uncertainty of Labor Market Wage Gaps

19.15 h Come-together (Aula)

Monday, June 26

SESSION 3: MULTIPLE ENDPOINTS AND DOSE FINDING

9.00-9.35 h   **George Y. H. Chi** (FDA, USA)
Clinical Decision Rules and Multiple Endpoints

9.40-10.15 h   **Nancy L. Geller** (National Heart, Lung, Blood Institute, USA)
Multiple endpoints in clinical trials

10.20-10.40 h **Jürgen Läuter** (University of Magdeburg, Germany)
Analysis of multiple endpoints - confidence regions and model selection

10.45-11.05 h **Brent R. Logan, Ajit C. Tamhane** (Northwestern University, USA)
Comparison of Two Treatments Based on Multiple Endpoints

Coffee break

11.35-11.55 h **Ajit C. Tamhane, Brent R. Logan** (Northwestern University, USA)
Multiple test procedures for identifying the minimum effective and maximum safe doses simultaneously

Monday, June 26

12.00-12.20 h   **<u>Peter Bauer</u>, W. Brannath, M. Posch** (University of Vienna, Austria)
Identification of effective and safe treatments

12.25-12.45 h   **James J. Chen** (FDA, USA)
Weighted P-Value Adjustments for Animal Carcinogenicity Trend Test

SESSION 4: MULTIPLE TESTING UNDER ORDER RESTRICTION

12.50-13.25 h   **Chihiro Hirotsu** (University of Tokyo, Japan)
A relationship between the isotonic inference and the changepoint analysis

Lunch

14.50-15.10 h   **<u>Tetsuhisa Miwa</u>** (National Institute of Agro-Environmental Sciences, Japan)**, A. J. Hayter** (Georgia Institute of Technology, USA), **Wei Liu** (University of Southampton, UK)
Exact calculations of the level probabilities in the unbalanced one-way models with applications to Bartholomew's test

Monday, June 26

15.15-15.35 h **Tony Hayter** (Georgia Institute of Technology, USA), **Tetsuhisa Miwa** (National Institute of Agro-Environmental Institute, Japan),**Wei Liu** (University of Southampton, UK)
Combining the advantages of one-sided and two-sided multiple comparison procedures.

15.40-16.00 h **Shun-Yi Chen** (Tamkang University, Taiwan), **Hubert J. Chen** (University of Georgia, USA)
A Single-Stage Procedure for Testing Homogeneity of Means Against Ordered Alternatives Under Unequal Variances

Coffee break

16.30-16.50 h **T. Lang, A. Auterith, P. Bauer** (University of Vienna, Austria)
Trendtests with Adaptive Scoring

16.55-17.15 h **C. Hirotsu, S. Aoki** (University of Tokyo, Japan)
Test for the association between the disease and alleles

SOFTWARE DEMO

17.20-17.40 h **Guido Giani, Klaus Straßburger, and Helmut Finner** (Deutsches Diabetes - Forschungsinstitut, Germany)
Separate-A Program Package for Multiple Comparisons

Monday, June 26

POSTER SESSION

17.45-17.50 h **Yoav Benjamini, <u>Vered Madar</u>** (Tel Aviv University, Israel)
The modified Benjamini-Stark procedure for non-equivariant simultaneous confidence intervals

17.50-17.55 h **Dario Mazzaro, Fortunato Pesarin, <u>Luigi Salmaso</u>** (University of Padova, Italy)
Permutation tests for effects in repeated measures multiresponse unbalanced factorial designs

17.55-18.00 h **G. C. Bhimani , Prashant R. Makwana** (Saurashtra University, India)
Estimation and Comparison of Survival Rate of Patients with Thalassaemia (Major) under Different Treatment

18.00-18.05 h **Ruediger Vollandt, <u>Manfred Horn</u>** (University of Jena, Germany)
Sample size determination for multiple many-one and pairwise comparisons of proportions

18.05-18.10 h **<u>Markus Neuhäuser</u>** (Byk Gulden Pharmaceuticals, Germany), **Frank Bretz** (University of Hannover, Germany)
Nonparametric all-pairs multiple comparisons

18.10-18.15 h **<u>Nairanjana Dasgupta,</u> Francis G. Pascual** (Washington State University, USA)
Exact unconditional tests for comaparing several logistic regression slopes to a standard

Monday, June 26

18.15-18.20 h   **H. P. Piepho** (University Kassel, Germany)
Multiple treatment comparisons in linear models when the standard error of a difference is not constant

18.20-18.25 h   **Gudrun Bernhard** (Novartis Pharma AG, Switzerland), **Markus Klein, Gerhard Hommel** (University of Mainz, Germany)
Global and multiple test procedures using ordered p-values

18.25-18.30 h   **Egbert Biesheuvel** (Solvay Pharmaceuticals, The Netherlands), **Ludwig Hothorn** (University of Hannover, Germany)
Many-to-one comparisons in a stratified design maintaining the overall alpha level

18.35-18.40 h   **I. Novikov** (The Chaim Sheba Medical Center, Israel)
Multiple comparisons in one applied ranking problem

18.40-18.45 h   **Michael Weichert** (Cap Gemeni, Germany)
Determining all logical dependencies among pairwise hypotheses using graphs

18.45-18.50 h   **Anat Reiner** (Tel Aviv Univeristy, Israel)
Using the False Discovery Rate Criteria for Simultaneous Hypothesis Testing in Epidemiological Research

18.55-19.00 h   **Y. Benjamini, Y.E.Kling** (Tel Aviv University, Israel)
Aspects of Multiplicity in Statistical Process Control (SPC)

19.00-19.05 h   **Jørgen Hilden, Michael Weis Bentzon** (University of Copenhagen, Danmark)
Bonferroni with contextual P-value transforms: a means to gain power

Poster buffet

Tuesday, June 27

SESSION 5: MULTIPLE COMPARISONS FOR DECISION-MAKING AND BAYES PROCEDURES

9.00-9.35 h   **John D. Spurrier** (University of South Carolina, USA),
Eleanne Solorzano (University of New Hampshire, USA)
Comparing More Than One Treatment to More Than One Control in Incomplete Blocks

9.40-10.00 h   **Shanti S. Gupta** (Purdue University, USA)
Empirical BAYES selection procedures for positive exponential family

10.05-10.25 h **Peter H. Westfall** (Texas Tech University),
Russell D. Wolfinger, Randall D. Tobias (SAS Inc., USA)
New Bayesian and Frequentist Software Solutions for Multiple Inferences

Coffee break

10.55-11.15 h **Daniel Q. Naiman** (Johns Hopkins University, USA)
Tubes and Inclusion-Exclusion Probability Inequalities

11.20-11.40 h **Daniel T. Voss** (Wright State University, USA)
Analysis of unreplicated factorial experiments

Tuesday, June 27

11.45-12.05 h **Klaus Straßburger, Guido Giani, Helmut Finner**
(Deutsches Diabetes-Forschungsinstitut, Germany)
Stepwise Partitioning Procedures

12.10-12.30 h **Helmut Finner** (Deutsches Diabetes-Forschungs-
institut, Germany),
Markus Roters (Universität Potsdam, Germany)
Multiple hypotheses testing and expected type I errors

SESSION 6: RESAMPLING AND NONPARAMETRIC APPROACHES

12.35-13.10 h **Rand R. Wilcox** (University of South California, USA)
Pairwise comparisons of trimmed means for two or
more groups
13.15- 13.30 h *Geschäftssitzung der AG Multiple Verfahren*

Lunch break

14.40-15.00 h **Fortunato Pesarin** (University of Padova, Italy)
Nonparametric combination of dependent partial tests

15.05-15.25 h **Ullrich Munzel** (University of Goettingen),
Ludwig Hothorn (University of Hannover, Germany)
Nonparametric Multiple Comparisons in the Presence
of Ties

Tuesday, June 27

15.30-15.50 h **Peter Reitmeir** (National Research Center for Environment and Health, Germany)
On the use of Bootstrap Cut-Off Tests in a closed testing procedure

Coffee break

SESSION 7: INTERIM ANALYSIS

16.20-16.40 h **<u>Martin Posch</u> and Peter Bauer** (University of Vienna, Austria)
Interim Analysis and Sample Size Reassessment

16.45-17.05 h **Gerhard Hommel** (University of Mainz, Germany)
Adaptive modifications of hypotheses after an interim analysis

17.10-17.30 h **<u>Hans-Helge Müller</u> and Helmut Schäfer** (University of Marburg, Germany)
Monitoring clinical trials: a general statistical principle for design changes

17.35-17.55 h **<u>Siegfried Kropf,</u> Uwe Schmidt, Marilene S. Jepsen** (University of Leipzig, Germany)
Two-Stage Adaptive Design in a Clinical Trial with Three Study Arms and Multiple Endpoints, Including a Test of Non-Inferiority

Conference dinner at the river boat

Wednesday, June 28

SESSION 8: MULTIPLICITY IN CLINICAL TRIALS

9.00-9.35 h   **Joachim Röhmel** (Bundesinstitut für Arzneimittel, Germany)
Multiplicity in Clinical Trials - a Regulatory View

9.35-10.00 h   **Fong Wang-Clow** (Genentech, Inc., USA)
Alternative Approaches of Multiple Comparisons in Clinical Trials

10.05-10.25 h   **<u>Qian Li</u>, Laura Lu, Mo Huque** (FDA, USA)
A Flexible Multiplicity Adjustment Approach and Its Application

10.30-10.50 h   **A. J. Sankoh** (Wyeth-Ayerst Research, USA)
Non-superiority Clinical Trials and Multiplicity: An Interpretation Issue

Coffee break

Wednesday, June 28

SESSION 9: COMPUTATIONAL ASPECTS

11.15-11.35 h **Paul Somerville** (University of Central Florida, USA), **Frank Bretz** (Hannover University, Germany)
Obtaining Critical Values for Simultaneous Confidence Intervals and Multiple Testing

11.40-12.00 h <u>**F. Bretz**</u> (University of Hannover, Germany), **A. Genz** (Washington State University, USA), **L. A. Hothorn** (University of Hannover, Germany)
Studentized multiple contrast tests: distribution under the null and the alternative

12.05-12.25 h **Yosef Hochberg and** <u>**Michael C. Mosier**</u> (Tel Aviv University , Israel)
Intersection-Union Procedures For Some Restricted Models

12.30-12.50 h **Jiayang Sun** (Case Western Reserve University, USA)
Multiple Comparisons for Infinite Number of Parameters

Summary

Please, inform on the final program, abstracts, on-line registration, recent information, hotel reservation, cultural events etc. at:

www. bioinf.uni-hannover.de/~mcp2000

or ask via e.mail:

hothorn@ifgb.uni-hannover.de

or via phone +495117625566

SOCIAL EVENTS

Sunday, June 25 Aula 7 pm
Come-together

Monday, June 26 7 pm
Aula Poster buffet

Tuesday, June 27
(7.30 boarding, 8 pm)
Conference dinner at a river boat

HOTEL

via: **http://www.porstmann-kongresse.de/kov/2000/mcp2000/RegiForm.htm**

Regular conference hotel: Hotel Ibis Messe

Comfortable 3-star hotel, close to the International Congress Centre Berlin. Public transporation: 1 stop (subway) to the venue. Single room DEM 154.00; Double room DEM 189.00 (Breakfast incl.)

Hotel Seehof

Elegant 4-star hotel, quietly located ashore of the ,Lietzensee' in the center of the Western city. Restaurant with international cuisine, bar, swimming pool, garden terrace. Public transportation: 2 stops (S-Bahn) to the venue. Single room DEM 255.00; Double room DEM 305.00 (Breakfast included)

Hotel am Studio

Comfortable 3-star hotel, close to the Opera House and the Congress Centre Berlin. Public transportation: 4 stops (subway) to the venue. Single room DEM 160.00; Double room DEM 195.00 (Breakfast incl.)

A special thank of the program committee to:

The Patrons of the German Region of the International Biometric Society, the Department of Bioinformatics Hannover University and the Department of Medical Biometry of Humboldt University Berlin, Charité

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Name:
First name:
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Conference fee:	$150 / DM 295	☐
Come-together, Sunday June, 25th (7.30 pm): no fee		☐
Poster buffet, Monday, June 26th (6.30 pm): no fee		☐
Conference dinner on a river boot Tuesday, June 27th (7 pm)		

Participant	$40 / DM 75	☐
accomp. Person	$30 /DM 60	☐
Kids	$25	☐

Total: ....

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PROGRAM OVERVIEW

	Sunday, June 25	Monday, June 26	Tuesday, June 27	Wednesday June 28
8.30 - 9.00 h		*Registration*	*Registration*	*Registration*
9.00-11.00 h		Multiple endpoints and dose finding	MCP for decision-making and Bayes Procedures	Multiplicity in clinical trials
11.00-13.30 h	*Registration*			Computat. Aspects
14.00-16.30 h	New approaches	Multiple testing under order restriction	Resampling and nonparam. approaches	
17.00-19.00 h	Very large multiplicity problems and FDR	Poster	Interim analysis	
	Come-together	*Poster buffet*	*Conference dinner*	

(Note: correct time schedule in the detailed program inside)