

Session and Room	Time	Session Title	Organizer	Speaker	Talk Title
Registration Table: HUB Third Floor					
June 20th DAY 0					
TAM-1 (HUB 367)	8:30-12:30	Short Course 1		Haiyan Xu (Johnson & Johnson), Dong Xi (Novartis) and Jason C. Hsu (The Ohio State University)	<u>Fundamentals of Multiple Testing and Graphical Approaches to Multiple Testing Problems</u>
TAM-2 (HUB 379)	8:30-12:30	Short Course 2		Christopher Jennison (University of Bath)	<u>Multiple Hypothesis Testing in Group Sequential and Adaptive Clinical Trials</u>
HUB Food Court (First floor)	12:30-1:30	Lunch (on your own)			
TPM-1 (HUB 367)	1:30-5:30	Short Course 3		Cyrus Mehta (Cytel Inc.) and Lingyun Liu (Cytel Inc.)	<u>Trial Designs with Multiple Treatments and Multiple Endpoints Using East®</u>
TPM-2 (HUB 379)	1:30-5:30	Short Course 4		Haoda Fu (Eli Lilly)	<u>Artificial Intelligence, Machine Learning, and Precision</u>
HUB 355	6:00-9:00	Mixer			
June 21st DAY 1					
Registration Table: HUB Third Floor					
WAM1 (HUB302)	8:30-10:00	Keynote Speech		Session Chair: Xinping Cui Xinping Cui (Prof & Chair, Department of Statistics, UCR)	Opening of the Conference
				Cynthia K. Larive (Interim Provost and EVC, UCR)	Welcome Remarks
				Kathryn Uhrich (Dean, College of Natural and Agricultural Sciences, UCR)	Welcome Remarks

Ajit C. Tamhane (Professor of IEMS and Statistics,
Northwestern University)

History of MCP Conferences

Jason Hsu (The Ohio State University)

Errors in Multiple Testing Big
and Small, Now and Then,
More or Less

Coffe Break (HUB Third Floor)

10:00 -10:30 Coffee Break

WAM 2-1 (HUB 355)

10:30-12:10

Multiplicity Issues

Panel Discussion

Session Chair: Xinping Cui/ Jason Hsu
Martin Posch (Medical University of Vienna)

Florian Klinglmueller (AGES - Austrian Agency for
Health & Food Safety)

Bushi Wang (Boehringer Ingelheim)

Yuki Ando (PMDA)
Haiyan Xu (Johnson & Johnson)

Dong Xi (Novartis)

WAM 2-2 (HUB 367)

10:30-12:10

High Dimensional
and Large Scale
Problems

Joseph Romano

Session Chair: Joseph Romano

10:30-11:00

Wenge Guo (New Jersey Institute of Technology):
Invited Speaker

Analysis of Error Control in
Large Scale Two-Stage
Multiple Hypothesis Testing

11:00-11:20

Lihua Lei (University of California, Berkeley)

AdaPT: An Interactive
Procedure for Multiple Testing
with Side Information

11:20-11:40

Etienne Roquain (Universite Pierre et Marie Curie)

New Procedures Controlling
the False Discovery Proportion
via Romano-Wolf's Heuristic

11:40-12:00				Michael Wolf (University of Zurich)	Bonferroni-Type Adjustments in MCPs for One-Sided
12:00-12:10					Floor Discussion

WAM 2-3 (HUB 379)	10:30-12:10	Multiple Testing	Contributed	Session Chair: Jian Zhu	General Covering Principle to A Closed Testing Procedure
	10:30-10:50			Huajiang Li (Avanir Pharmaceuticals)	
	10:50-11:10			Girish Aras (Amgen)	
	11:10-11:30			Jiangtao Gou (Hunter College)	
	11:30-11:50			Jelle Goeman (Leiden University Medical Center)	
	11:50-12:10			Pierre Neuvial (CNRS and Toulouse Mathematics)	

Lunch (HUB Food Court)	12:10-1:30	Lunch			
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WPM 1-1 (HUB 355)	1:30-3:10	Subgroup Analysis	Jason Hsu/Dong	Session Chair: Jason Hsu	Biomarker Subgroup Testing, Misclassification, and Missing Data
	1:30-2:00			Gene Pennello (FDA): Invited Speaker	
	2:00-2:20			Szu-Yu Tang (Ventana Medical Systems, Inc.)	
	2:20-2:40			Siva Sivaganesan (University of Cincinnati)	
	2:40-3:00			Shujie Ma (University of California, Riverside)	
	3:00-3:10				

WPM 1-2 (HUB 367)	1:30-3:10	High Dimensional Variable Selection and Multiple	Xinping Cui	Session Chair: Xinping Cui	Model-free Knockoffs for High-dimensional Controlled Variable Selection
	1:30-2:00			Yingying Fan (University of Southern California): Invited Speaker	
	2:00-2:20			Eugene Katsevich (Stanford University)	

2:20-2:40				Harold Sackrowitz (Rutgers University)	Penalized Likelihood and Multiple Testing
2:40-3:00				Aldo Solari (University of Milano-Bicocca)	Assessing Variable Selection Uncertainty in Linear Models
3:00-3:10					Floor Discussion

WPM 1-3 (HUB 379)

1:30-3:10	Multiple Endpoints	Contributed Papers		Session Chair: Dong Xi	
1:30-1:50				Ajit Tamhane (Northwestern University)	A Gatekeeping Procedure to Test a Primary and a Secondary Endpoint in a Group Sequential Design with Multiple Interim Looks
1:50-2:10				Bushi Wang (Boehringer Ingelheim)	How to Evaluate Type II Error Rate with Multiple Endpoints
2:10-2:30				Huiling Li (Celegene)	Improved Testing Procedures for Group Sequential Trials with a Primary and a Secondary Endpoint
2:30-2:50				Jie Chen (Merck Research Laboratories)	On Simultaneous Tests of Superiority and Noninferiority of Multiple Endpoints in Clinical Trials
2:50-3:10				Scott Beattie (Eli Lilly and Company)	Testing Superiority When Non-inferiority of the Same Endpoint is Assessed in a Multiple Comparison

Coffe Break (HUB third floor)

3:10-3:30 Coffee Break

WPM 2-1 (HUB 355)

3:30-5:10	Multiple Testing for Sequential Data	Jay Bartroff		Session Chair: Jay Bartroff	
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3:30-4:00			Adel Javanmard (University of Southern California) : Invited Speaker	Online Rules for Control of False Discovery Rate
4:00-4:20			Michael Hankin (University of Southern California)	Sequential Testing of Multiple Hypotheses Under Arbitrary Joint Distributions
4:20-4:40			Jay Bartroff (University of Southern California)	Methods for Multiple Testing Error control on Sequential
4:40-5:00			Yanglei Song (University of Illinois at Urbana- Champaign):	Sequential Multiple Testing with Generalized Error Control: An Asymptotic
5:00-5:10				Floor Discussion

WPM 2-2 (HUB 367)

3:30-5:10	Pattern Mining	Frank Bretz/Toshimitsu Hamasaki	Session Chair: Toshimitsu Hamasaki	
3:30-4:00			Koji Tsuda (University of Tokyo): Invited Speaker	Statistical Pattern Mining: An Overview
4:00-4:20			Ichiro Takeuchi (Nagoya Institute of Technology)	Selective Inference for Predictive Pattern Mining
4:20-4:40			Llinares Lopez Felipe (ETH Zurich)	Accounting for a Categorical Covariate in Significant Pattern Mining
4:40-5:00			Geoff Webb (Monash University)	Controlling Familywise Error When Rejecting at Most One Null Hypothesis Each From a Sequence of Sub-Families of Null Hypotheses
5:00-5:10				Floor Discussion

WPM 2-3 (HUB 379)

3:30-5:10	Adaptive Designs I	Contributed Papers	Session Chair: Christopher Jennison	
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3:30-3:50			Jian Zhu (Takeda Pharmaceuticals)	Application of Frequentist Guidelines in Bayesian Adaptive Designs
3:50-4:10			Tobias Mütze (University Medical Center Gottingen)	Blinded Sample Size Re-Estimation in Three-Arm Trials with 'Gold Standard' Design
4:10-4:30			Martin Posch (Medical University of Vienna)	Optimized Adaptive Enrichment Designs for Clinical Trials with a Sensitive
4:30-4:50			Thomas Burnett (University of Bath)	Optimal Adaptive Enrichment Trials
4:50-5:10			Fanny Yang (University of California, Berkeley)	Multi-A(rmed)/B(andid) testing with Online FDR

Coffe Break (HUB third floor) 5:10-5:30 Coffee Break

WPM 3-1 (HUB 355)	5:30-6:30	Poster Session	Posters	Andre Neumann (University of Bremen, Institute for Statistics)	Statistical Properties of Bernstein copulae with Applications in Multiple Testing
				Ayaka Yagi (Tokyo University of Science)	Simultaneous Confidence Intervals for Pairwise Comparisons Among Mean
				Jose Juan Castro Alva (Facultad de Ciencias Fisico Matematicas de la Benemerita Universidad Autonoma de)	Constructing Tests to Compare Two Proportions Whose Critical Regions Guarantee to be Barnard Convex Sets
				Natalia Sirotko-Sibirskaya (University of Bremen)	A Frequency-Domain Model Selection Criterion for a (Dynamic) Factor Model
				Cheng Fang-Hsuan (Chung Hua University)	A Computer-Assisted Pap Smear Screening System Based on Automated Cell

			Pratyaydipta Rudra (University of Colorado Denver, Anschutz Medical Campus)	Control of False Discoveries in Grouped Hypothesis Testing for eQTL Data
			Melinda McCann (Oklahoma State University)	FDR Control for Dependent Chi-Square Goodness of Fit Tests
			Agnes Balogh (Bristol-Myers Squibb)	Multiplicity Correction in Group-Sequential Oncology
			Fanny Yang (University of California, Berkeley)	Online FDR Control with Decaying Memory and Weights
			Ningning Xu (Leiden University Medical Center)	Comparison of Different Variable Selection Methods in a Special Situation
			Jianbo Chen ((University of California, Berkeley)	Decentralized Decision Making on Networks with False Discovery Rate Control
			Yuta Umezu (RIKEN)	Post Selection Inference with Kernels
			Lihua Lei (University of California, Berkeley)	Interactive Accumulation Test: A Flexible Framework for Structural Multiple Testing

June 22nd

DAY 2

ThAM 1-1 (HUB 355)

8:30-10:10

Panel on Adaptations Based on Blinded Data

Martin Posch and Florian Klinglmüller

Session Chair: Martin Posch

8:30-8:40

Janet Wittes (Statistics Collaborative, Inc.)

Keeping the Blind Blind

8:40-8:50

Ekkehard Glimm (Novartis Pharma)

Blinded Adaptations of Clinical trials – How Blind Do We Have to Be?

8:50-9:00			Tobias Mütze (University Medical Center Gottingen)	Bayesian Sample Size Re-estimation Incorporating External Data
9:00-9:10			Michael Proschan (NIAID, NIH)	Estimation Following Blinded Adaptation
9:10-9:20			Christopher Jennison (University of Bath)	Discussant
9:20-10:10				Panel Discussion

ThAM 1-2 (HUB 367)

8:30-10:10	Discrete FWER/FDR Methodology	Contributed Papers	Session Chair: Sanat Sarkar	
8:30-8:50			Sebastian Doehler (Darmstadt University of Applied Sciences)	A Modified Benjamini-Hochberg Procedure for Discrete Data
8:50-9:10			Lingjing Jiang (University of California, San Diego)	Discrete FDR Method Increases Sensitivity of Statistical Tests on
9:10-9:30			Joseph Heyse (Merck Research Laboratories)	Use of a Discrete False Discovery Rate Method for Flagging Potential Safety Signals in Clinical Trials
9:30-9:50			Li He (Merck Research Laboratories)	Procedures Controlling the FWER for Discrete Data
9:50-10:10			Guogen Shan (University of Nevada Las Vegas)	Exact Approach for Post Hoc Analysis of a Chi-Squared Test

ThAM 1-3 (HUB 379)

8:30-10:10	Permutation/Resampling/Pattern	Contributed Papers	Session Chair: Jason Hsu	
8:30-8:50			Georg Hahn (Imperial College London)	Implementing Monte Carlo Tests with Multiple Thresholds
8:50-9:10			Thorsten Dickhaus (University of Bremen)	Estimating the Proportion of True Null Hypotheses Under Dependency
9:10-9:30			Jesse Hemerik (Leiden University Medical Center)	Permutation-Based Simultaneous Confidence Bounds for the False Discovery

9:30-9:50		Mahito Sugiyama (Osaka University)	Significant Pattern Mining on Graphs
9:50-10:10		Junpei Komiyama (University of Tokyo)	Controlling FWER and FDR in Emerging Pattern Mining

Coffe Break (HUB Third Floor) 10:10 -10:30 Coffee Break

ThAM 2-1 (HUB 355)	10:30-12:10	Adaptive Designs II	Christopher Jennsion	Session Chair: Christopher Jennison	
	10:30-11:00			Florian Klinglmueller (AGES - Austrian Agency for Health & Food Safety): Invited Speaker	Nonparametric Inference Following Adaptive Designs with Sample Size Reassessment
	11:00-11:20			David Robertson (MRC Biostatistics Unit, University of Cambridge)	Correcting for Selection Bias in Adaptive Two-Stage Designs
	11:20-11:40			Pranab Ghosh (Cytel, Inc.)	Design and Monitoring of Multi-Arm Multi-Stage Clinical
	11:40-12:00			Cyrus Mehta (Cytel, Inc.)	Analytical and Empirical Comparison of MAMS and P-Value Combination Approaches for Adaptive
	12:00-12:10				Floor Discussion

ThAM 2-2(HUB 367)	10:30-12:10	Weighted Multiple Testing Procedures	Contributed Papers	Session Chair: Jian Zhu	
	10:30-10:50			Guillermo Durand (Universite Pierre et Marie Curie)	Optimal Data-Driven Weighting Procedure with Grouped Hypotheses
	10:50-11:10			Edgar Dobriban (University of Pennsylvania)	A General Convex Framework for Multiple Testing with Prior Information

11:10-11:30			Dong Xi (Novartis)	A Unified Framework for Weighted Parametric Multiple Test Procedures
11:30-11:50			Jakub Pecanka (Leiden University Medical Center)	Conditionalized Testing: Improvement of Multiple Testing Methods When Testing Inflated p-Values
11:50-12:10			Djalel-Eddine Meskaldji (Ecole polytechnique federale de Lausanne EPFL)	Adaptive Multiple Hypothesis Testing for Complex Networks and High Dimensional Data

ThAM 2-3 (HUB 379)

10:30-12:10	FDR Methodologies	Sanat Sarkar	Session Chair: Sanat Sakar	
10:30-11:00			Marina Bogomolov (Technion, Israel Institute of Technology): Invited Speaker	Selective Inference on a Tree of Hypotheses: New Error Rates and Controlling
11:00-11:20			Weijie Su (University of Pennsylvania)	Private False Discovery Rate Control and Robustness of the Benjamini-Hochberg
11:20-11:40			Aaditya Ramdas (University of California, Berkeley)	A Unified Treatment of Multiple Testing with Prior Knowledge
11:40-12:00			Maxim Rabinovich (University of California, Berkeley)	Optimal Rates and Tradeoffs in Multiple Testing
12:00-12:10				Floor Discussion

Lunch

12:10-12:30	Boxed lunch			
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ThPM 1-1 (HUB 355)	12:30-2:00	21st Century Medicine: from Drugs to Biologics, from Generics to Biosimilars	Lingyun Liu/Dong Xi	Session Chair: Lingyun Liu	
	12:30-1:00			Pantelis Vlachos (Cytel, Inc.): Invited Speaker	Flexible Statistical Approaches for Biosimilar Development
	1:00-1:20			Sam Hsiao (Cytel, Inc.)	Unblinded Sample Size Re-Estimation in Bioequivalence Trials with Small Sample Sizes
	1:20-1:40			Yushi Liu (Eli Lilly and Company)	Totality of the Evidence: What should Statisticians Know
	1:40-2:00			Jaclyn McTague (Prosoft Clinical)	A Distribution-Free Consistency Adjusted Stepwise
ThPM 1-2 (HUB 367)	12:30-2:00	Subgroup Analysis	Martin Posch	Session Chair: Jason Hsu	
	12:30-1:00			Thomas Jaki (Lancaster University): Invited Speaker	Confidence Regions for Treatment Effects in Biomarker Stratified Designs
	1:00-1:20			Ying Ding (University of Pittsburgh)	Confident Inference for SNP Effects on Treatment Efficacy
	1:20-1:40			Siyoen Kil (LSK Global PS)	Statistical Issues in Subgroup Discovery Using Permutation Testing
	1:40-2:00			Zhiwei Zhang (University of California, Riverside)	Medicine: Rilpivirine Versus Efavirenz for Treatment-Naive HIV Patients
ThPM 1-3 (HUB 379)	12:30-1:50	Multiplicity or Bias	Sue-Jane Wang/	Session Chair: Toshimitsu Hamasaki	

12:30-1:00		Xinping Cui (University of California, Riverside)	Sequential Multiple Testing for Biomarker Discovery
1:00-1:20		Nabhih Tayob (MD Anderson Cancer Center)	Unbiased Estimation of Biomarker Panel Performance When Combining Training and Testing Data in a Group
1:20-1:40		Brian Hobbs (MD Anderson Cancer Center)	Elucidating Issues of Multiplicity that Arise with Clinical Trial Designs for
1:40-2:00		Irina Dinu (University of Alberta)	An Application of FDR to

Shuttle to Beach

Conference Dinner/Social Activity

2:00-3:30 Beach Excursion/Dinner

June 23rd DAY 3

FAM 1-1 (HUB 355)	8:30-10:10	Post-Selection Inference and Selective Inference	Robert Tibishirani / Jonathan Taylor	Session Chair: Xinping Cui	
	8:30-9:00			William Fithian (University of California, Berkeley): Invited Speaker	Adaptive Sequential Model Selection
	9:00-9:20			Jelena Markovic (Stanford University)	Bootstrap Inference After Using Multiple Queries for Model Selection
	9:20-9:40			Snigdha Panigrahi (Stanford University)	Bayesian Post-Selection Inference in the Linear Model
	9:40-10:00			Asaf Weinstein (Stanford University)	Selective Sign-Determining Multiple Confidence Intervals with FCR Control

	10:00-10:10				Floor Discussion
FAM 1-2 (HUB 367)	8:30-10:10	Recent Advances in Design and Analysis of Clinical Trials	Contributed Papers	Session Chair: Florian Klinglmüller	
	8:30-8:50			Toshimitsu Hamasaki (National Cerebral and Cardiovascular Center)	Group Sequential Designs in Clinical trials with semi-competing risks outcomes
	8:50-9:10			Victoria Vickerstaff (University College London)	Analysing Multiple Outcomes in Randomised Controlled Trials Using the Multilevel
	9:10-9:30			Saswati Saha (University of Bremen)	Comparison of Novel Approaches in Dose Response Studies
	9:30-9:50			Michael Lee (Janssen R&D)	Comparisons of Efficiency and Robustness of Multiple Testing
	9:50-10:10			David Li (Pfizer)	Testing Strategy in Phase 3 Trials with Multiple Doses
FAM 1-3 (HUB 379)	8:30-10:10	Genomics/Bioinformatics	Contributed Papers	Session Chair: Bushi Wang	
	8:30-8:50			Jingshu Wang (University of Pennsylvania)	Adaptive Filtering Multiple Testing Procedures for Partial Conjunction Hypotheses
	8:50-9:10			Xing Qiu (University of Rochester)	A Novel FWER Controlling Procedure for Data with Reduced Rank Correlation
	9:10-9:30			Qi Zhang (University of Nebraska Lincoln)	An Empirical Bayes Test for Allelic-Imbalance Detection in ChIP-seq

9:30-9:50		Jianbo Chen (University of California, Berkeley)	FDR control on directed acyclic graphs
9:50-10:10		Toshinari Kamakura (Chuo University)	Statistical Analysis for Estimating Multiple Stopped States in Walking Motions

Coffe Break (HUB Third Floor) 10:10 -10:30 Coffee Break

FAM 2-1 (HUB 355)	10:30-12:10	Decision Theory (Going Beyond FWER)	Frank Bretz/Jason Hsu	Session Chair: Jason Hsu	
	10:30-11:00			Helmut Finner (Institute for Biometrics and Epidemiology, German Diabetes Center (DDZ), Leibniz): Invited Speaker	From Higher Criticism and Local Levels of GOF Tests to Confidence Bounds for the Proportion of True Nulls
	11:00-11:20			Haiyan Xu (Johnson & Johnson)	Conditional Error Rate of Decision Made on the
	11:20-11:40			Petr Koldanov (NRU Higher School of Economics)	Optimal Statistical Decision for Gaussian Graphical Model Selection
	11:40-12:00			Kenneth Hung (University of California, Berkeley)	Rank Verification for Exponential Families
	12:00-12:10				Floor Discussion

FAM 2-2(HUB 367)	10:30-12:10	Recent Advance on design and analysis of multi-reginal clinical	Toshimitsu Hamasaki / Chin-Fu Hsiao	Session Chair: Toshimitsu Hamasaki	
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10:30-10:55				Chin-Fu Hsiao (Institute of Population Health Sciences, National Health Research Institutes)	Use of Interval Estimations in Design and Evaluation of Multi-Regional Clinical Trials
10:55-11:20				Victoria Chang (Boehringer-Ingelheim Pharmaceuticals Inc.) & Qi Xia (Temple University)	Multi-regional Biosimilarity Studies
11:20-11:45				Fei Chen (Janssen R&D)	MRCT design models and drop-min data analysis.
11:45-12:10				Yuki Ando (PMDA): Discussant	

Session 2: Multiplicity Issues

FAM 2-3 (HUB 379)	10:30-12:10	Multiplicity Issues	Contributed	Session Chair: Ramaiyan Elangovan	
	10:30-10:50			Rajvir Singh (Thapar University)	Comparing Several Variances with Control Using Sample Quasi Range
	10:50-11:10			Andrew V. Frane (University of California, Los Angeles)	Revisiting "What's Wrong with Bonferroni Adjustments"
	11:10-11:30			Stan Young (CGStat)	The Reliability of Two Meta-Analysis Studies
	11:30-11:50			Hossein Mansouri (Texas Tech University)	Simultaneous Rank Tests for Pairwise Comparisons in Adaptive Designs in Clinical Trials
	11:50-12:10			Ramaiyan Elangovan (Annamalai University)	

Lunch (HUB Food Court)

	12:10-1:30	Lunch			
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