

# Program

Session	Time	Wednesday, September 2 (Venue: Thrive & Evolve)
WAM-1	9:00-12:30	<u>Short Course 1</u> : Fundamental Concepts and Techniques of Multiple Testing (Frank Bretz and Vishwanath (Mahesh) Iyer)
WAM-2	9:00-12:30	<u>Short Course 2</u> : Dose-Finding and the MCP-Mod methodology (Bjoern Bornkamp)
	12:30-1:30	Lunch Break
WPM-1	1:30-5:00	<u>Short Course 3</u> : Trial Designs with Multiple Treatments and Multiple Endpoints Using East® (Ajit Tamhane, Lingyun Liu and Vidyadhar Phadke)
WPM-2	1:30-5:00	<u>Short Course 4</u> : Selective Inference in Genomics and Elsewhere (Yoav Benjamini, Daniel Yekutieli and Saumyadipta Pyne)
	6:00-7:30	Welcome Mixer

The logo for MCP 2015 features the letters 'MCP' in a large, bold, pinkish-red font. The year '2015' is written in a smaller, yellow font to the right of the 'P'. The background of the logo is a stylized illustration of a large, ornate archway, possibly a gateway to a city or a historical site, with a bright yellow sun or moon rising behind it. The entire logo is set against a light, warm-toned background.

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### Thursday, September 3

Session	Time	
TAM1	9:00-10:15	<b>Plenary Session (Ballrooms 1, 2 and 3)</b>
	9:00-9:15	Vishwanath (Mahesh) Iyer: Welcome
	9:15-10:15	Martin Posch: Multiplicity, Interim Analyses and Adaptations: Addressing Multiple Objectives in Clinical Trials
	10:15-11:00	<b>Conference group picture &amp; Tea/Coffee Break</b>
TAM2-I	11:00-12:30	<b>Multi-Arm and Multi-Stage Adaptive Designs (Invited Session. Organizers: Franz Koenig and Martin Posch)</b> <i>Session Chair: Franz Koenig Venue: Ballroom 1</i>
	11:00-11:30	Georg Gutjahr: Adaptive Dunnett Tests for Two-Stage Response-Adaptive Designs (Invited Talk)
	11:30-11:55	Werner Brannath: Adaptive Enrichment Designs Based on the Average Hazard Ratio
	11:55-12:20	Sasikiran Goteti: Practical Considerations for Adaptive Enrichment Designs
	12:20-12:30	Discussion
TAM2-II	11:00-12:30	<b>Simultaneous Parametric Inference (Invited Session. Organizer: Ashis Sengupta)</b> <i>Session Chair: Narendra Kumar Venue: Ballroom 2</i>
	11:00-11:30	Ashis Sengupta: Multiple Comparisons for Directional Data (Invited Talk)
	11:30-11:55	Somesh Kumar: Trade-off Between Robustness and Efficiency in Estimating a Spherical Location
	11:55-12:20	Hemangi Kulkarni: Simultaneous Inference in General Parametric Models Admitting Generalized Pivot Quantities for Parameters
	12:20-12:30	Discussion
TAM2-III	11:00-12:30	<b>Clinical Trials - I (Contributed Papers)</b> <i>Session Chair: Vishwanath Iyer Venue: Ballroom 3</i>
	11:00-11:20	Thomas Brechenmacher: Different Methods for Constructing Simes-Based Gatekeeping Procedures with Applications to Clinical Trials
	11:20-11:40	Sadhvi Khanna: Building a More Powerful Test Procedure for Correlated Endpoints
	11:40-12:00	Priya Iyer: Statistical Measures to Analyze and Evaluate Adverse Event Data in Clinical Trials
	12:00-12:20	Rishita Nutheti: Strong Control of Alpha Amongst Primary and Secondary Endpoints in Pivotal Trials
	12:20-12:30	Discussion
	12:30-1:30	<b>Lunch Break</b>

Session	Time	
TPM1-I	1:30-3:00	<b>Dose finding studies (Invited Session. Organizers: Franz Koenig and Martin Posch)</b> <i>Session Chair:</i> Franz Koenig <i>Venue:</i> Ballroom 1
	1:30-2:00	Bjoern Bornkamp: Likelihood Ratio Tests for a Dose-Response Effect using Multiple Nonlinear Regression Models (Invited Talk)
	2:00-2:30	Frank Miller: Adaptive Dose-Finding with Control of Familywise Error Rate and Power (Invited Talk)
	2:30-2:55	Martin Posch: Optimized Stopping Rules for Multi-Arm Group Sequential Designs
	2:55-3:00	Discussion
TPM1-II	1:30-3:00	<b>False Discovery Rate-I (Invited Session. Organizer: Yoav Benjamini)</b> <i>Session Chair:</i> Jay Bartroff <i>Venue:</i> Ballroom 2
	1:30-2:00	Yoav Benjamini: Tukey's Two Statistical Cornerstones to Replicability (Invited Talk)
	2:00-2:25	Daniel Yekutieli: Bayesian FDR Controlling Test Procedures
	2:25-2:50	Jesse Hemerik: False Discovery Proportion Control by Permutations: Proving Properties of SAM
	2:50-3:00	Discussion
TPM1-III	1:30-3:00	<b>Bayesian Methods (Contributed Papers)</b> <i>Session Chair:</i> Lisa Hampson <i>Venue:</i> Ballroom 3
	1:30-1:50	Siva Sivaganesan: On the Role of Prior as an Inherent Multiplicity Adjuster
	1:50-2:10	Arunava Chakravartty: Bayesian Hierarchical Models for Assessing Adverse Events in Clinical Trials
	2:10-2:30	Noirit Kiran Chandra: Non-Marginal Decisions: New Bayesian Multiple Testing Procedures
	2:30-2:50	Edgar Dobriban: Optimal Multiple Testing Under a Gaussian Prior on the Effect Sizes
	2:50-3:00	Discussion
	3:00-3:30	<b>Tea/Coffee Break</b>
	3:30-5:00	<b>Goodness-of-fit Tests and Multiple Testing Under Dependence (Invited Session. Organizer: Helmut Finner)</b> <i>Session Chair:</i> Frank Bretz <i>Venue:</i> Ballroom 1
TPM2-I	3:30-4:00	Veronika Gontscharuk: Goodness-of-Fit Tests Based on Minimum p-value Statistics: Asymptotic Results and Finite Behaviour (Invited Talk)
	4:00-4:25	Helmut Finner: On the Simes test Under Dependence
	4:25-4:50	Ajit Tamhane: Hochberg Multiple Test Procedure Under Negative Dependence
	4:50-5:00	Discussion

Session	Time	
TPM2-II	3:30-5:00	<b>Group Sequential Designs-I (Contributed Papers)</b> <i>Session Chair:</i> Vishwanath Iyer <i>Venue:</i> Ballroom 2
	3:30-3:55	Toshimitsu Hamasaki: Early Stopping for Futility or Efficacy in Group Sequential Clinical Trials with Multiple Co-Primary Endpoints
	3:55-4:20	Lingyun Liu: Adaptive Multi-arm Multi-stage Group Sequential Design with Inference
	4:20-4:40	David Mills: The Implementation of Group Sequential Designs with Graphical Gatekeeping in Phase III Registration Trials
	4:45-5:00	Discussion
TPM2-III	3:30-5:00	<b>Selected Topics (Contributed Papers)</b> <i>Session Chair:</i> Arunava Chakravartty <i>Venue:</i> Ballroom 3
	3:30-3:50	Nicole Heussen: Strategies for Dealing with Missing Values in Randomization Tests Under Different Randomization Procedures
	3:50-4:10	Ralf-Dieter Hilgers: A Unified Criterion for Assessing the Biased Test Decision in Cases of Selection and Chronological Bias
	4:10-4:30	Petr Koldanov: Multiple Decision Problems in Network Analysis
	4:30-4:50	Siddhartha Mandal: ANCOM: A Novel Compositional Method to Analyze Microbial Compositions
	4:50-5:00	Discussion
	6:00-9:00	<b>Banquet Dinner</b>



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## Friday, September 4

Session	Time	
FAM1-I	<b>8:30-10:00</b>	<b>Estimation and Closed Testing – Two Hostile Brothers? (Invited Panel Session. Organizers: Franz Koenig and Martin Posch) (Venue: Ballroom 2)</b>
	<b>8:30-9:00</b>	Andreas Brandt: A regulator's view on multiple testing and confidence intervals: current practice and future perspectives
	<b>9:00-9:20</b>	Werner Brannath: Informative Confidence Intervals – When and How
	<b>9:20-10:00</b>	Panel Discussion: Andreas Brandt, Werner Brannath, Yoav Benjamini, Helmut Finner, Frank Bretz
FAM1-II	<b>8:30-10:00</b>	<b>False Discovery Rate-II (Contributed Papers)</b> <i>Session Chair: Yoav Benjamini Venue: Ballroom 1</i>
	<b>8:30-8:55</b>	Jay Bartroff: FDR Control for Sequential Data
	<b>8:55-9:20</b>	Pallavi Basu: False Discovery Control with Weights
	<b>9:20-9:45</b>	Djalel-Eddine Meskaldji: The Control of the Scaled False Discovery Rate, a Flexible and Comprehensive Error Control and a Powerful Theoretical Tool in Multiple Testing
	<b>9:45-10:00</b>	Discussion
FAM1-III	<b>8:30-10:00</b>	<b>Bioinformatics (Invited Session. Organizer: Frank Bretz)</b> <i>Session Chair: Frank Bretz Venue: Ballroom 3</i>
	<b>8:30-9:00</b>	Jianan Peng: False Coverage Rate Controlling Confidence Intervals in Monotone Dose-Response Microarray Experiments (Invited Talk)
	<b>9:00-9:25</b>	Saumyadipta Pyne: Identifying Knockdown Effects of shRNA Constructs in Genome-Wide Pooled RNAi Screens of Cancer Lineages
	<b>9:25-9:50</b>	Thorsten Dickhaus: Simultaneous Bayesian Analysis of Contingency Tables in Genetic Association Studies
	<b>9:50-10:00</b>	Discussion
	<b>10:00-10:30</b>	<b>Tea/Coffee Break</b>
FAM2-I	<b>10:30-11:40</b>	<b>Stepwise Multiple Testing Procedures (Invited Session. Organizer: Ajit Tamhane)</b> <i>Session Chair: Ajit Tamhane Venue: Ballroom 1</i>
	<b>10:30-11:00</b>	John Chen: New Step-up Confidence Procedures for Weighted Hypotheses (Invited Talk)
	<b>11:00-11:20</b>	Shyamal De: Stepwise Methods of Multiple Testing Controlling Generalized Familywise Error Rates I and II in Sequential Experiments
	<b>11:20-11:40</b>	Jelle Goeman: Hommel's Method Revisited

Session	Time	
FAM2-II	<b>10:30-11:40</b>	<b>Group Sequential Designs - II (Contributed Papers)</b> <i>Session Chair:</i> Toshimitsu Hamasaki <i>Venue:</i> Ballroom 2
	<b>10:30-10:50</b>	Michael Grayling: Optimally Designed Group Sequential Multi-Formulation Bioequivalence Studies
	<b>10:50-11:10</b>	Jacob Pecanka: Robin Hood: A Powerful Cost-Efficient Two-Stage Experimental Design for Large Scale Simultaneous Inference Such as GWAS
	<b>11:10-11:30</b>	Pabak Mukhopadhyay: Group Sequential Designs for Regulatory Submission: Beyond Multiplicity
	<b>11:30-11:40</b>	Discussion
FAM2-III	<b>10:30-11:40</b>	<b>Sample Size Estimation (Contributed Papers)</b> <i>Session Chair:</i> Martin Posch <i>Venue:</i> Ballroom 1
	<b>10:30-10:50</b>	Vishnu R Varadhan: On Some Aspects and Issues in Sample Size Determinations
	<b>10:50-11:10</b>	Kaustav Banerjee: Blinded Sample Size Re-estimation in 2 x 2 Crossover Trial
	<b>11:10-11:30</b>	Sengul Cangur: Comparing Performances of Multiple Comparison Methods in Commonly Used 2xC Contingency Tables
	<b>11:30-11:40</b>	Discussion
	<b>11:40-12:40</b>	Poster Session
	<b>12:40-1:30</b>	Lunch
FPM1-I	<b>1:30-3:00</b>	<b>Frontiers of Confirmatory Inference in Small Populations (Panel Session. Organizers: Franz Koenig and Martin Posch) (Venue: Ballroom 2)</b> Ralf-Dieter Hilgers: Some Aspects of Clinical Trials in Small Population Groups Lisa Hampson: Bayesian Methods for the Design and Interpretation of Clinical Trials in Very Rare Diseases Carl-Fredrik Burman: Science, Logic and Patients. On Inference in Small Disease Populations Panel Discussion: John Scott, Ralf-Dieter Hilgers, Lisa Hampson, Carl-Fredrik Burman, Andreas Faldum
FPM1-II	<b>1:30-3:00</b>	<b>Clinical Trials-II (Invited Session. Organizer: Atanu Biswas)</b> <i>Session Chair:</i> Anju Goyal <i>Venue:</i> Ballroom 1
	<b>1:30-2:00</b>	Atanu Biswas: A Multi-Treatment Adaptive Allocation for Circular Response Trials (Invited Talk)
	<b>2:00-2:20</b>	Bibhas Chakraborty: "SMART" Clinical Trial Designs for Dynamic Treatment Regimes
	<b>2:20-2:40</b>	Buddhananda Banerjee: Linear Increment in Efficiency with the Inclusion of Surrogate Endpoint
	<b>2:40-3:00</b>	Nagarajan Mouli: A Blend of MCP and SAS in Clinical Trials

Session	Time	
FPM1-III	<b>1:30-3:00</b>	<b>Selected Topics (Contributed Papers)</b> <i>Session Chair:</i> Vidyadhar Phadke <i>Venue:</i> Ballroom 3
	<b>1:30-1:50</b>	Nishith Kumar: Identification of Differentially Expressed Gene Using Robust Singular Value Decomposition
	<b>1:50-2:10</b>	Hailu Chen: Sequential Multiple Testing for Variable Selection
	<b>2:10-2:30</b>	Nazneen Shariff: Statistical Methods for Analyzing Ordinal Categorical Data
	<b>2:30-2:50</b>	Xinping Cui: An Improved Fisher-Hayter Pairwise Comparison Procedure that is Uniformly More Powerful
	<b>2:50-3:00</b>	Discussion
	<b>3:00-3:30</b>	<b>Tea/Coffee Break</b>
FPM2-I	<b>3:30-5:00</b>	<b>FDA Multiplicity Guidance Draft Document (Invited Session. Organizer: Ajit Tamhane)</b> John Scott: Multiple Testing in Clinical Trials: A Regulatory Perspective (Invited Talk) Discussion: Mohammed Huque, Frank Bretz, Andreas Brandt (TBC)
	<b>6:00-9:00</b>	<b>Trip to C.R. Rao AICSMS</b>



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## Saturday, September 5

Session	Time	
SAM1-I	<b>9:00-10:30</b>	<b>Subgroup Analyses and Multiple testing (Contributed Papers)</b> <i>Session Chair:</i> Werner Brannath <i>Venue:</i> Ballroom 1
	<b>9:00-9:25</b>	Frank Bretz: Generalized Error Rates for Subgroup Analyses
	<b>9:25-9:50</b>	Dong Xi: A Multiple Comparison Procedure for Subgroup Analyses with Binary Endpoints
	<b>9:50-10:15</b>	Franz Koenig: Two-Step Procedures Using Safety for Multiplicity Adjustments in Many-One Tests
	<b>10:15-10:30</b>	Discussion
SAM1-II	<b>9:00-10:30</b>	<b>Selected Topics (Contributed Papers)</b> <i>Session Chair:</i> Ashis Sengupta <i>Venue:</i> Ballroom 2
	<b>9:00-9:20</b>	Narendra Kumar: A Step-Down Procedure for Combining Multiple Comparison and Subset Selection Procedure for Variances of Normal Populations
	<b>9:20-9:40</b>	Rajvir Singh Chauhan: Simultaneous Confidence Intervals for Comparing Several Exponential Location Parameters with Control in Direction-Mixed Families
	<b>9:40-10:00</b>	Anju Goyal: A Note on Comparing Several Variances with a Control Variance
	<b>10:00-10:10</b>	Discussion
	<b>10:30-11:00</b>	<b>Tea/Coffee Break</b>
SAM2-I	<b>11:00-12:30</b>	<b>Softwares for Multiple Testing and Adaptive Designs (Invited Session. Organizers: Frank Bretz and Cyrus Mehta)</b> <i>Session Chair:</i> Vidyadhar Phadke <i>Venue:</i> Ballroom 1
	<b>11:00-11:30</b>	Tobias Mielke: Adaptive Dose Finding Using MCPMod (Invited Talk)
	<b>11:30-11:50</b>	Lingyun Liu: Design Multi-Arm Multi-Stage Trial Using East®
	<b>11:50-12:10</b>	Kornelius Rohmeyer: New gMCP Tools for Power and Sample Size Calculations in Graphical Procedures
	<b>12:10-12:30</b>	Chitra Tirodkar: Proc MCPMod: A Tool for Dose-Finding Using MCPMod
SAM2-II	<b>11:00-12:30</b>	<b>Selected Topics (Contributed Papers)</b> <i>Session Chair:</i> Narendra Kumar <i>Venue:</i> Ballroom 2
	<b>11:00-11:20</b>	Prasenjit Ghosh: On Some Asymptotic Optimality Properties of a General Class of Shrinkage Priors in Multiple Hypothesis Testing Under Sparsity
	<b>11:20-11:40</b>	Thomas Porter: The Generalised Likelihood Ratio Test for Sparse Normal Mixtures
	<b>11:40-12:00</b>	Jingshu Wang: Understanding Partial Conjunction Test
	<b>12:00-12:10</b>	Discussion
	<b>12:30-9:00</b>	<b>Lunch – followed by sightseeing trip</b>