Day 1 – October 4 (Tuesday)

workshop	Welcome
13:45 – 14:00	Welcome to pre-conference workshop – David Willé
	Half-day workshop on dose-response analysis
	chair – Ludwig Hothorn
14:00 – 15:00	Daniel Gerhard and Christian Ritz: Mixed-effects dose-response analysis, Universities of Canterbury and Copen- hagen
	break
15:00 – 15:30	Coffee break
15:30 – 16:30	Bjoern Bornkamp : Model selection versus model averaging in dose finding studies, <i>Novartis</i>
16:30 – 17:30	Ludwig Hothorn : Trend tests assuming dose as a qualitative factor and/or as a qualitative covariate, <i>University of Hannover</i>
	End of workshop
17:30 – 17:40	wrap up and orientation – David Willé
	Reception
19:30 – 21:00	Drinks reception at the college.

Day 2 – October 5 (Wednesday)

	Welcome	
09:10 - 09:15	main conference welcome – David Willé	
2	CMC 1 / Pharmacology and Bayesian	statistics 1
	chair – Helena Geys	
09:15 – 10:00	Stan Altan : Controversies, questions and recent advances in stability modellng, <i>Janssen</i>	
10:00 – 10:10	short pause	
	2a: CMC – Helen Geys	2b: Pharmacology – Kat Gore
10:10 – 10:30	Marion Chatfield : Assessment of priors to Estimate Uncertainty in Variance Estimates in small studies, <i>GSK</i>	Hannes-Friedrich Ulbrich: How to make better use of advanced statis- tical methods in animal experiments in research, Bayer Pharma Aktienge- sellschaft
10:30 – 10:50	Steve Novick : Setting control limits using Bayesian methods when most observations are below the limit of quantification, <i>MedImmune</i>	Gonzalo Durán-Pacheco : Characterization of vascular retinal diseases by causal modeling, <i>F. Hoffmann-La Roche AG</i>
	break	
10:50 – 11:20	Coffee and posters	
3	Pharmacology and Bayesian statistics	s 2 / CMC 2
	chair – Tom Jacobs	
11:20 – 12:05	Max Kuhn : Statistical methodology in pre-clinical in vivo modelling: advances and improvements with Bayesian methodology, <i>Pfizer</i>	
12:05 – 12:15	short pause	

	3a: Pharmacology – Tom Jacobs	3b: CMC – Pierre Lebrun
12:15 – 12:35	Robert Kozarski : Growth-Inhibition Model in Pre-Clinical In-Vivo Modelling: Advances and Improvements with Bayesian Methodology, <i>MedImmune</i>	Luwis Diya : Modeling dissolution profiles using a Bayesian beta mixed regression model, <i>Janssen Pharmaceutica NV</i>
12:35 – 12:55	Emma Martin : Accounting for dropout in xenografted tumour efficacy studies: Integrated endpoint analysis, reduced bias and better use of animals, <i>University of Manchester</i>	Coppenolle Hans : Design considerations for process qualification activities applied to dissolution testing, <i>Janssen Pharmaceutica</i>
12:55 – 13:05	short pause	
4	CMC 3 / High dimensional statistics 1	
	4a: HDS – David Willé	4b: CMC - Bruno Boulanger
13:05 – 13:25	Stanley E. Lazic : Using general linear models to adjust for total cell number and technical artefacts in high-throughput screens, <i>Novartis</i>	Laurent Natalis : Promotion of the Quality by Design principles in the pharmaceutical industry via the Robustness Index initiative, <i>Arlenda</i>
13:25 – 13:45	Michel Thiel : Analyzing unbalanced multifactorial experiments with ASCA and APCA: Application in metabolomics, <i>Janssen Pharmaceutica</i>	Maud Hennion : From the laboratory to the clinic: A Bayesian perspective to accelerate the validation of a diagnostic test, <i>Arlenda</i>
	Lunch	
13:45 – 15:00	Lunch and posters	
1	Reproducibility	
	chair - Peter Ceuppens	
15:00 – 15:45	Malcom Macleod : Risks of bias in animal research - and how to mitigate them, <i>University of Edinburgh</i>	
15:45 – 16:05	Brian J Eastwood : Evaluation of touchscreen based visual discrimination in rats across multiple laboratories, <i>Lilly</i>	
16:05 – 16:25	Ros Walley and Andy Grieve: Reproducibility – the good, the bad and the ugly, <i>UCB</i>	

	break	
16:25 – 16:55	Coffee and posters	
5	High dimensional statistics 2 / Pharma	acology and Bayesian statistics 3
	5a: HDS – Richardus Vonk	5b: Pharmacology – Kat Gore
16:55 – 17:15	Ziv Shkedy : Integrated analysis of gene expression, chemical structure and bioassay data in drug discovery experiments, <i>University of Hasselt</i>	Thomas Jaki : Comparing sampling methods for pharmacokinetic studies using the derived parameters, <i>Lancaster University</i>
17:15 – 17:35	Marijke Van Moerbeke: Integrated Cluster Analysis in Drug Discovery Experiments using Multi-Source Data, University of Hasselt	
	End of conference sessions	
17:35 – 17:45	wrap up and organisation – David Willé	
	Conference social event	
19:30 – 22:00	Meal at Browns Restaurant , 23 Trumpington St, Cambridge CB2 1QA. Additional activities may also be planned.	

Day 3 – October 6 (Thursday)

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	Welcome	
08:30 - 08:40	welcome to the final day – TBD	
6	Microbiome / Pharmacology and Baye	sian statistics 4
	chair – Luc Bijnens	
08:40 – 09:10	Marcus Rauch : Introduction to microbiome research, <i>Janssen Prevention Center</i>	
09:10 – 09:55	Susan Holmes : Statistical aspects of microbiome experiments, <i>Stanford University</i>	
09:55 – 10:05	short pause	
	6a: Microbiome – Luc Bijnens	6b: Pharmacology – David Willé
10:05 – 10:25	Nolen Joy Perualila : Development of microbiome biomarkers for Immunoglobulin A: a joint modeling approach, <i>University of Hasselt</i>	Fabiola La Gamba : A bayesian PK/PD model for synergy; a case study,, <i>University of Hasselt</i>
10:25 – 10:45	Wim Van der Elst: Evaluating surrogate endpoints based on causal-inference and information theory, with illustrations in a microbiome setting, Janssen Research & Development	Yauheniya Cherkas: Analysis of Imaging of Hippocampal Epileptiform Calcium Motifs, Janssen Pharmaceutica
10:45 – 11:05	Stijn Hawinkel : Model-based visualization provides insightful biplots of microbiome datasets, <i>Ghent university</i>	Leacky Muchene : Evaluation of Magnetic Resonance Imaging (MRI) parameters as Biomarkers in Alzheimer's Disease, <i>Hasselt University</i>
	break	

11:05 – 11:35 Coffee and posters

·	Synergy 1 / Pharmacology and Bayesi	an statistics 5
	7a: Synergy – Tom Jacobs	7b: Pharmacology – Richardus Vonk
11:35 – 11:55	Bie Verbist : Introduction to drug synergy, <i>Janssen</i>	Marjolein Crabbe : Multivariate analysis strategies for the design of imagebased compound profiling experiments, Janssen Pharmaceutica
11:55 – 12:15	Mandy Bergquist : 1+1 = 3 – A Search for In Vivo Synergy, <i>GSK</i>	Juliane Siebourg-Polster: Causal modeling of histo-pathology image marker proteins in treated inflammation, Roche Pharmaceutical Research and Early Development
12:15 – 12:35	Koen van der Borght : Generalised Loewe model, <i>Janssen</i>	Robin Van Oirbeek : Leading chemometrics into the lab: a case study, <i>Open Analytics</i>
	Lunch	
12:35 – 13:50	Lunch and posters	
8	Synergy 2 / CMC 4	
	8a: Synergy – Tom Jacobs	8b: CMC – Pierre Lebrun
13:50 – 14:10	Olivier Thas: Nonparametric synergy call: two F-tests, <i>University of Ghent</i>	Timothy Mutsvari : Analytical biosimilarity: an analysis of current practices and a Bayesian proposal for a successful strategy, <i>Arlenda</i>
13:50 – 14:10 14:10 – 14:30		larity: an analysis of current practices and a Bayesian proposal for a success-
	call: two F-tests, <i>University of Ghent</i> Maxim Nazarov: One and two-stage modelling approaches for assessing synergy in Harbron's framework, <i>Open</i>	larity: an analysis of current practices and a Bayesian proposal for a successful strategy, <i>Arlenda</i> Pieta IJzerman-Boon: A Comparison of Experiments to Estimate Qualitative
14:10 – 14:30	Maxim Nazarov: One and two-stage modelling approaches for assessing synergy in Harbron's framework, <i>Open Analytics</i> Nele Goeyvaerts: open discussion,	larity: an analysis of current practices and a Bayesian proposal for a successful strategy, <i>Arlenda</i> Pieta IJzerman-Boon: A Comparison of Experiments to Estimate Qualitative Microbiological Test Parameters, <i>MSD</i> Ariëlla Van de Sompel: A Bayesian approach to tobit regression for longitudi-

9	Toxicology and MVA / CMC 5	
	chair– Luc Bijnens	
15:10 – 15:55	David LovelI : New Developments in Statistics for Mutagenesis and Genetic Toxicology, <i>St George's, University of London</i>	
15:55 – 16:05	short pause	
	9a: Toxicology and MVA – Luc Bijnens	9b: CMC – Kat Gore
16:05 – 16:25	Mark Pilling : High throughput screening of compounds for drug induced liver injury (DILI), <i>Astrazeneca</i>	Martin Otava : Continuous Manufacturing of Pharmaceuticals: Statistical Challenges, <i>Janssen Pharmaceutica</i>
16:25 – 16:45	Tatsiana Khamiakova : Multivariate statistics for PAT data analysis: an application to IR synthesis monitoring,	Bianca Teodorescu : Statistical considerations in setting product specifications, <i>UCB</i>

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16:45 – 16:55 Closing remarks – David Willé