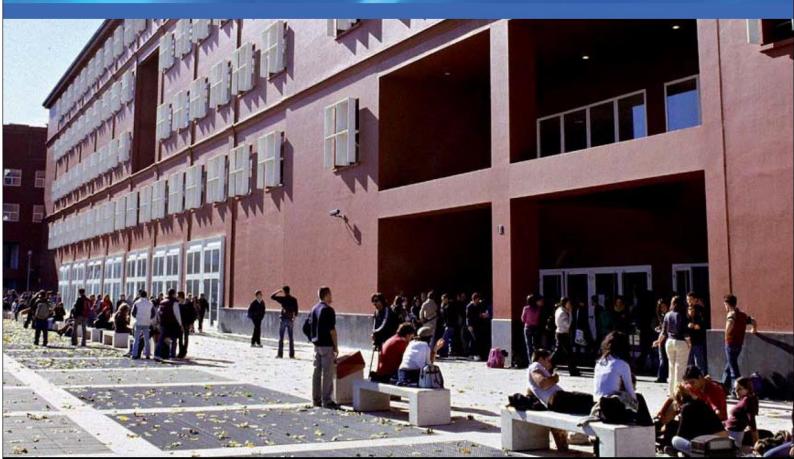




JOINT MEETING of the **International Biometric Society (IBS)** Austro-Swiss and Italian Regions **15-19 June 2015**

www.ibs-roes.org/iroes-2015/



INDEX

TIME TABLE	3
INTERNATIONAL PROGRAMME COMMITTEE	6
GENERAL INFORMATION	7
PROGRAMME	8
15 JUNE – MONDAY	8
16 JUNE – TUESDAY	9
17 JUNE – WEDNESDAY	13
18 JUNE – THURSDAY	15
19 JUNE – FRIDAY	
POSTER LIST	21
SOCIAL ACTIVITIES INFORMATION	
SPONSORS	30

TIME TABLE

	U7-LAB732	U7-LAB714	U7-LAB712
09:00-13:00	Course 1: Temporal and spatio-temporal modelling and monitoring of infectious diseases	Course 2: Analyzing latent times and competing risks in survival data	
Lunch			
14:00 – 17:30	Course 1: Temporal and spatio-temporal modelling and monitoring of infectious diseases	Course 2: Analyzing latent times and competing risks in survival data	Course 3: RNA-Seq: From analysis workflows to high- dimensional modeling

15 June – Monday

Aula Martini		U6-A10	U6-A11
09:00-09:30 Welcome Session			
09:30-11:00	Invited session Does Size really not matter? Evaluation of Treatment Effects in Subgroups and other small Populations	Invited session Recent Advances in Health Impact Evaluation	
Coffee break			
11:30- 12:50 Contributed Flexible and Adaptive Designs		Contributed Methods in Epidemiology	Contributed Methods and Applications in Genetics/Omics (1)
Lunch			
14:00 - 15:30	Invited session Statistical Methods for Omics Data Integration	Invited session Innovative Study Designs and Analysis Issues in Epidemiology	
Coffee break			
16:00 - 17:20	Contributed Survival Analysis (1)	Contributed Regression	Contributed Clinical Trials
18:00	18:00 Poster Reception		

-

Aula Martini		U6-A10	U6-A10
09:00-10:30	Invited session Recent Advances in ROC Methodology (Invited Session of the Italian-Spanish-ERM Regions)	Invited session Evidence Synthesis and the Use of co-data (CEN Invited Session)	
Coffee break			
11:00- 12:00	Contributed Methods and Applications in Genetics/Omics (2)	Contributed Analysis of Registries and Administrative Databases	Contributed Statistical Methods in Infectious Disease
Lunch			
12:15	Italian Regional Meeting	ROeS Regional Meeting	
SOCIAL ACTIVITIES			

	Aula Martini	U6-A10	U6-A10
09:30-11:00	Invited session Recent Developments to tackle time-dependent Covariates in Clinical Research	Invited session Robust Methods in Biostatistics	
Coffee break			
11:30- 12:50 Survival Analysis (2)		Young Statistician Session	Contributed Other Topics
Lunch			
14:00 - 15:30	Invited session Adaptive Clinical Trials with Subpopulation Selection	Invited session Statistical Methods in Environmental Sciences, Agriculture and Forestry	
Coffee break			
16:00 - 17:00	Contributed Missing Data Analysis	Contributed Studies in Veterinary, Agricultural and Environmental Research	Contributed Diagnostic Studies and Meta-Analysis
19:30	SC	OCIAL DINNER	

19 June - Friday

Statistical Methods in Nutritional Epidemiology – Satellite Meeting

University of Milan, Sala Napoleonica, Via S. Antonio, 12 Milano

Sala Napoleonica		
09:30-12:30 Invited Session		
Lunch		
14:00 - 16:30	Round Table	

INTERNATIONAL PROGRAMME COMMITTEE

Scientific Program Committee

Held Leonhard (University of Zurich) Co-chair Valsecchi Maria Grazia (University of Milano-Bicocca) Co-chair Ambrogi Federico (University of Milan) Baccini Michela (University of Florence) Berghold Andrea (Medical University of Graz) Bretz Frank (Novartis) Castrignanò Annamaria (Agricultural Research Council Research, Bari) Farcomeni Alessio (University of Rome) Finos Livio (University of Padua) Hothorn Torsten (University of Zurich) Posch Martin (Medical University of Vienna) Schemper Michael (Medical University of Vienna)

Local Organizing Committee

Galimberti Stefania (University of Milano-Bicocca) Chair Antolini Laura (University of Milano-Bicocca) Biganzoli Elia (University of Milan) Bonetti Marco (Bocconi University) Di Serio Clelia (VS San Raffaele University) Rebora Paola (University of Milano-Bicocca) Solari Aldo (University of Milano-Bicocca) Miglio Rossella (University of Bologna, Treasurer IBS-ITR) Hsu Shu-Fang (University of Bern, Treasurer IBS-ASR)

Satellite Meeting Program Committee

Decarli Adriano (University of Milan) Chair Ulmer Hanno (Medical University of Innsbruck) Co-Chair Edefonti Valeria (University of Milan) Ferraroni Monica (University of Milan) Krogh Vittorio (Fond. IRCCS - Istituto Nazionale dei Tumori, Milano

GENERAL INFORMATION

VENUE

Pre-conference courses (15 June)

Università degli Studi Milano-Bicocca Via Bicocca degli Arcimboldi 8 - Milano **U7 Building**

IROeS Joint Meeting (16-18 June) Università degli Studi Milano-Bicocca Piazza Ateneo Nuovo 1 - Milano U6 Building

Satellite Meeting (19 June)

Università degli Studi di Milano Via Sant'Antonio 12 - Milano **Sala Napoleonica**

Name Badges

All participants and accompanying persons must wear the Conference identification badge in a visible place.

Registration Desk

Location:			
MONDAY	15 June	8:15-9:30:	U7 Building, first floor, AULA LAB714
		9:30-1600:	U6 building, Floor -1, in front of AULA MARTINI
TUESDAY	16 June	8:15-16:00:	U6 building, Floor -1, in front of AULA MARTINI
WEDNESDAY	17 June	8:15-14:00:	U6 building, Floor -1, in front of AULA MARTINI
THURSDAY	18 June	8:15-16:00:	U6 building, Floor -1, in front of AULA MARTINI
FRIDAY	19 June	8:15-16:00:	Sala Napoleonica, via S. Antonio 12, Milano

Lunch and Coffee Break:

Lunch buffet and Coffee Break will be available in the hall in front of AULA MARTINI, U6 building, Floor -1.

Wireless Connection:

Free wireless connection will be provided in all University buildings. For those who don't have an EDUROAM certificate, a guest account will be provided upon request.



JOINT MEETING of the International Biometric Society (IBS) Austro-Swiss and Italian Regions

15 JUNE

PROGRAMME

15 JUNE – MONDAY

U7 Building

Universita' Milano-Bicocca – Via Bicocca degli Arcimboldi 8, Milano

AULA LAB732 (Third Floor)

9:00am - 17:30pm

Temporal and spatio-temporal modelling and monitoring of infectious diseases

Michael Höhle, Department of Mathematics, Stockholm University, Sweden;

Sebastian Meyer, Epidemiology, Biostatistics and Prevention Institute, University of Zurich, Switzerland;



Analyzing latent times and competing risks in survival data

Laura Antolini, Paola Rebora, Maria Grazia Valsecchi, Department of Health Science, University of Milano-Bicocca, Italy;

AULA LAB712 (Ground Floor)

14:00pm - 17:30pm

RNA-Seq: From analysis workflows to high-dimensional modeling

Harald Binder, IMBEI, Mainz University, Germany;

16 JUNE – TUESDAY

AULA Martini (Floor -1)

9:00am - 9:30am	Welcome Session
	Chair: Leonhard Held, University of Zurich, Switzerland;
	Chair: Maria Grazia Valsecchi, University of Milano-Bicocca. Italy;
	Welcome from the Dean of the University Milano-Bicocca, Prof.ssa
	Maria Cristina Messa, Italy;

AULA Martini (Floor -1)

9:30am - 11:00am	Invited Session: Does Size Really not Matter? Evaluation of Treatment Effects in Subgroups and Other Small Populations
	Chair: Martin Posch, Medical University of Vienna, Austria;
	Discussant: Willi Maurer, Novartis Pharma AG, Switzerland;
Identifying s	ubgroups of treatment responders: A meta-analytic approach
Tim Friede, I	Jniversity Medical Center Göttingen, Germany;
Depersonali	sing medicine
Stephen Sen	n, Luxembourg Institute of Health, Luxembourg;
Exploratory	subgroup analyses in confirmatory trials
Gerd Rosenk	ranz, Novartis Pharma AG, Switzerland;

AULA U6-10 (Ground Floor)

	9:30am - 11:00am	Invited Session: Recent Advances in Health Impact Evaluation Chair: Annibale Biggeri, University of Florence, Italy; Discussant: Fabrizia Mealli, University of Florence, Italy;
	approach	mpact of PM10 exposure on mortality: A propensity score
	the introduc disease	butcomes approach to documenting the public health impact of ation of PCV13 for the prevention of invasive pneumococcal II, Stat-Epi Associates, Inc, United States of America;
	population l	ifferent sources of uncertainty in long-term impact of heat on nealth: the case of the city of Skopje cini, University of Florence, Italy;
ULA	Martini (Floor -1)	
	11:30am - 12:50pm	Contributed: Flexible and Adaptive Designs Chair: Stephen Senn , Luxembourg Institute of Health, Luxembourg Institute of Health, Luxembourg;

Evaluation of possible designs for a three-arm clinical trial: Comparing a closed-testing design to potential alternatives Kaspar Rufibach, F. Hoffmann-La Roche AG, Switzerland;

Estimation after blinded sample size reassessment

Florian Klinglmueller, Medical University of Vienna, Austria; An intensive care unit trial on melatonin reinterpreted according to an urn model

Maria Giovanna Scarale, Università degli Studi di Milano, Italy;

AULA U6-10 (Ground Floor)

11:30am - 12:50pm Contributed: Methods in Epidemiology
Chair: Adriano Decarli, Università degli Studi di Milano, Italy;
Dichotomizing biomarkers for failure time outcome: from classification probabilities to predictive values based methods
Matteo Rota, Istituto di Ricerche Farmacologiche Mario Negri, Italy;
Combining individual and aggregated data to investigate the role of socio- economic disparities on cancer burden in Italy
Maura Mezzetti, Università "Tor Vergata", Italy;
A different class-assignment rule to build classification trees for ordinal outcomes
Matteo Di Maso, Università degli Studi di Milano, Italy;

AULA U6-11 (Ground Floor)

11:30am - 12:50pm

Contributed: Methods and Applications in Genetics/Omics (1) Chair: **Livio Finos**, Università di Padova, Italy;

Different notions of false discovery rate under the logic regression model Magdalena Zebrowska, Medical University of Vienna, Austria;

Statistics for nucleomics

Volker J. Schmid, Ludwig-Maximilians-Universität München, Germany; Combinatorial mixtures of multiparameter distributions: an application to microarray data

Valeria Edefonti, Università degli Studi di Milano, Italy; Identification of patient subgroups in high-throughput omics data Maike Ahrens, Ruhr-University Bochum, Germany;

AULA Martini (Floor -1)

2:00pm - 3:30pm	Invited Session: Statistical Methods for Omics Data Integration
	Chair: Clelia Di Serio, Vita-Salute San Raffaele University, Italy;
	Chair: Michael G. Schimek, Medical University of Graz, Austria;
	Discussant: Giuseppe Jurman, Fondazione Bruno Kessler, MPBA Italy;
Integrative	genomics: a rapid overview and some new approaches
Arnoldo Frig	essi, University of Oslo / Oslo University Hospital, Norway;
Ridge estim	ation of Gaussian graphical models from high-dimensional data
Wessel N. va	an Wieringen, VU University Medical Center, Netherlands, The;
Statistical in omics ranke	ference, stochastic aggregation, and visualization of multiple d lists
Michael G. S	chimek, Medical University of Graz, Austria;

AULA U6-10 (Ground Floor)

	2:00pm - 3:30pm	Innovative Study Designs and Analysis Issues in Epidemiology
		Chair: Maria Grazia Valsecchi, University of Milano-Bicocca, Italy;
		Discussant: Antonella Zambon, University of Milano-Bicocca, Italy;
	Advanced ne epidemiolog	ested case-control and case-cohort approaches in hospital W
	Martin Wolk	ewitz, University of Freiburg, Germany;
	Extensions t	o the analysis and interpretation of nested case-control data
	Marie Reilly,	Karolinska Institutet, Sweden;
	•	ohort designs with survival outcome: estimation of incidence in
	the presence of competing risks	
	Paola Rebora	a, University of Milano-Bicocca, Italy;
AULA	Martini (Floor -1)	
	4:00pm - 5:20pm	Contributed: Survival Analysis (1) Chair: Federico Ambrogi, Università degli Studi di Milano, Italy;

Flexible regression models in survival analysis for dynamic prediction with non-reversible time-varying treatment

Davide Paolo Bernasconi, University Milano-Bicocca, Italy;

Estimating relapse free survival as a net probability: regression models and graphical representation

Annalisa Orenti, University of Milan, Italy;

Statistical approaches in mediation analysis: a comparison of methods for survival data

Josef Fritz, Medical University of Innsbruck, Austria;

A simple to implement algorithm for natural direct and indirect effects in survival studies with a repeatedly measured mediator

Susanne Strohmaier, University of Oslo, Norway;

AULA U6-10 (Ground Floor)

4:00pm - 5:20pm	Contributed: Regression
	Chair: Marco Alfo', Sapienza Università di Roma, Italy;
Approximat continuous	e conditional percentiles for non-linear mixed effects models with responses
Aziz Chaouc	h, University Hospital Lausanne (CHUV), Switzerland;
Variable sel	ection uncertainty in regression models
Aldo Solari,	University of Milano-Bicocca, Italy;
New insight	s on resampling-based variable selection for multivariable
regression i	n the presence of correlation between covariates
Riccardo De	Bin, Ludwig-Maximilians-Universität of Munich, Germany;
Variable sel	ection with the change-in-estimate criterion: a bluff package?
Georg Heinz	e, Medical University of Vienna, Austria;

AULA	U6-11 (Ground Floor)	
	4:00pm - 5:20pm	Contributed: Clinical Trials
		Chair: Heinz Schmidli, Novartis, Switzerland;
	Model-base	d recursive partitioning for subgroup analyses
	Heidi Seibolo	d, University of Zurich, Switzerland;
	Assessment outcomes	of responsiveness for instruments capturing patient-reported
	Cornelia Dur	nger-Baldauf, Novartis Pharma AG, Switzerland;
	operating ch	n study to compare estimate of event-free rate at a given time and naracteristics between different frequentist and Bayesian analysis in oncology single-arm phase II clinical trials using a double gn
	Shu-Fang Hs	u Schmitz, Novartis Pharma AG, Switzerland;

AULA Martini (Floor -1)

6:00pm - 7:30pm

Poster Reception

17 JUNE – WEDNESDAY

AULA	Martini (Floor -1)	
	9:00am - 10:30am	Invited Session: Recent Advances in ROC Methodology (Invited
		Session of the Italian-Spanish-ERM Regions)
		Chair: Laura Antolini, Università Milano Bicocca, Italy; Chair: Benjamin Reiser, University of Haifa, Israel;
	Identificatio	on of high-order interactions using the likelihood-ratio score
	optimal RO	
	M.Luz Calle,	University of Vic - Central University of Catalonia, Spain;
	-	ion of continuous predictors in the development of prediction naximization of the AUC
	Irantzu Barr	io, Universidad del País Vasco UPV/EHU, Spain;
	Developme	nts in ROC surface analysis
	Christos T N	akas University of Thessaly, Greece;
		prediction improvement of additional markers: strengths and
	limitations	of the commonly used indexes
	Laura Antoli	ni, Università Milano Bicocca, Italy;
AULA	U6-10 (Ground Floor)	
	0.000	Invited Session: Evidence Synthesis and the Use of Co-Data (CEN
	9:00am - 10:30am	Invited Session)
		Chair: Leonhard Held, University of Zurich, Switzerland;
		Chair: Tim Friede, University Medical Center Göttingen, Germany;
	Robust met information	a-analytic-predictive priors in clinical trials with historical control
	Heinz Schmi	idli, Novartis, Switzerland;
	The use of s	econdary outcomes in meta-analysis
	John Brian C	Copas, University of Warwick, United Kingdom;
	Meta-analy	sis of few small studies in small populations and rare diseases
		ver, University Medical Center Göttingen, Germany;
	Improveme perfect refe	nts in meta-analysis of diagnostic test accuracy in the absence of a rence test
	Ulrike Held,	Horten Centre, University of Zurich, Switzerland;
AULA	Martini (Floor -1)	
	11:00am - 12:00pm	Contributed: Methods and Applications in Genetics/Omics (2) Chair: Wessel N. van Wieringen , VU University Medical Center, The Netherlands;
	A condition	al multivariate score test for RNA-seq data
		University of Padua, Italy;

A PLS model for the meet-in-the-middle approach using metabolomics Nada Assi, International Agency for Research on Cancer, France; Integration of somatic mutation, expression and functional data reveals potential driver genes predictive of breast cancer survival Stefano Calza, Università di Brescia, Italy;

AULA	U6-10 (Ground Floor)	
	11:00am - 12:00pm	Contributed: Analysis of Registries and Administrative Databases Chair: Michela Baccini , University of Florence, Italy;
	prevalence	information from multiple routine data collections to estimate the of chronic kidney disease among diabetic patients in Austria roldinger, Medical University of Vienna, Austria;
		d recursive partitioning applied to the Emilia-Romagna Region scharge data.
	Federico Ba	nchelli, University of Bologna, Italy;
	(Inflammato	when analyzing large registry based data - Results from the IBSEN ory Bowel South-Eastern Norway) study. ncarova Småstuen, University of Oslo, Norway;
_		
AULA	U6-11 (Ground Floor)	
	11:00am - 12:00pm	Contributed: Statistical Methods in Infectious Disease
		Chair: Arnoldo Frigessi , University of Oslo / Oslo University Hospital, Norway;
	Determinist	ic modelling of infectious diseases: monitoring H1N1 virus in UK
		la, MRC Biostatistics Unit. Cambridge, UK;
		natical models help to improve sample size calculations for isease trials?
		lerzog, Institute for Medical Informatics, Statistics and tion, Medical University of Graz, Austria;
	Estimating a	age specific HIV incidence using back-calculation
	Francesco B	rizzi, MRC Biostatistics Unit, Cambridge, United Kingdom;
AULA	Martini (Floor -1)	
	12:15pm - 1:30pm	Italian meeting: General Assembly of IBS Italy
		Chair: Maria Grazia Valsecchi, University of Milano-Bicocca, Italy;

AULA U6-10 (Ground Floor)

12:15pm - 1:30pm

ROeS General Assembly Chair: **Leonhard Held**, University of Zurich, Switzerland;

18 JUNE – THURSDAY

AULA	Martini (Floor -1)	
	9:30am - 11:00am	Invited Session: Recent Developments to Tackle Time-Dependent Covariates in Clinical Research
		Chair: Martina Mittlboeck, Medical University of Vienna, Austria;
		Discussant: Per Kragh Anderson, University of Copenhagen, Denmark;
	Multiple tir	ne scale models for the evaluation of time-dependent treatments
	Paola Rebo	ra, University of Milano-Bicocca, Italy;
		variate adjustment for generalised pseudo-values when the effect ependent intervention is assessed
	Ulrike Pötso	hger, Children's Cancer Research Institute, Vienna, Austria;
	-	optimal chemotherapy dosages for breast cancer via multi-state models with time-dependent covariates
	Giuliana Co	rtese, University of Padua, Italy;
AULA	U6-10 (Ground Floor)	
	9:30am - 11:00am	Invited Session: Robust Methods in Biostatistics Chair: Alessio Farcomeni, Università Sapienza di Roma, Italy;
		Discussant: Marco Alfò, Università Sapienza di Roma, Italy;
	A tutorial o	n the weighted likelihood methodology
	Luca Greco,	University of Sannio - Benevento, Italy;
	Monitoring	robust regression
	Domenico F	Perrotta, European Commission, Joint Research Centre, Italy;
		lication of trimming and constraints for robustifying the estimation of factor analyzers
	Agustin Ma	yo-Iscar, Universidad de Valladolid, Spain;
AULA	Martini (Floor -1)	
	11:30am - 12:50pm	Contributed: Survival Analysis (2)
		Chair: Michael Schemper, Medizinische Universität Wien, Austria;
	Competing	risks regression with high dimensional covariates
		nbrogi, Università degli Studi di Milano, Italy;
		quantiles of survival in register-based epidemiological studies
	-	venna Karolinska Institutet, Sweden;
		l estimation of survival regression models through Bayesian P-

Giuseppe Marano, Istituto Nazionale dei Tumori di Milano, Italy;

AULA U6-10 (Ground Floor)

11:30am - 12:50pm

Young Statistician Session Chair: Andrea Berghold, Medical University of Graz, Austria;

Sparse Bayesian modeling of underreported count data

Michaela Dvorzak, JOANNEUM Research, Austria;

Some quantile-based proposals for detecting differential expression in genomic studies

Lorenzo Maragoni, University of Padua, Italy;

Properties of the log-rank type test for the comparison of net survival curves

Klemen Pavlič, University of Ljubljana, Slovenia; Combining social contact data with spatio-temporal models for infectious diseases Sebastian Meyer, University of Zurich, Switzerland; Applying a modified Potts model on Hungarian healthcare data Miklós Tivadar Mályusz, ELTE, Hungary;

AULA U6-11 (Ground Floor)

11:30am - 12:50pm Contributed: Other Topics Chair: **Tim Friede**, University Medical Center Göttingen, Germany; **On the probability for a research finding to be true when the null hypothesis is impossible**

Valentin Rousson, University Hospital Lausanne, Switzerland;

Evidence, eminence and extrapolation - adjusted levels of evidence in small populations

Gerald Hlavin, Medical University of Vienna, Austria;

Parametric and nonparametric approaches for multimodal emotions recognition

Chiara Brombin, University Vita-Salute S. Raffaele, Italy;

Including H, K and J transformations into the Box-Cox formula: an application to the distribution of serum immunoreactive trypsinogen levels in the neonatal screening for cystic fibrosis.

Elena Spada, University of Milan, Italy;

The effects of chronic diseases on physical and mental well-being: a multilevel quantile regression analysis.

Giulia Cavrini, Free University of Bolzano, Italy;

AULA Martini (Floor -1)

2:00pm - 3:30pm	Invited Session: Adaptive Clinical Trials with Subpopulation Selection
	Chair: Dominik Heinzmann, Roche, Switzerland;
	Chair: Kaspar Rufibach, F. Hoffmann-La Roche AG, Switzerland;
Problems a	nd solutions for adaptive enrichment designs
Gernot Was	smer, University of Cologne, Germany;
Optimal sub	group selection rules for a targeted therapy in oncology
Johannes Kr	isam, University of Heidelberg, Germany;
Comparisor	of clinical development plans for a confirmatory trial with
subpopulat	on selection
Kaspar Rufil	oach, F. Hoffmann-La Roche AG, Switzerland;

AULA	U6-10 (Ground Floor)	
	2:00pm - 3:30pm	Invited Session: Statistical Methods in Environmental Sciences, Agriculture and Forestry Chair: Karl Moder, University of Natural Resources and Life Sciences, Austria;
		Chair: Annamaria Castrignanò , Consiglio per la Ricerca in Agricoltura e l'analisi dell'economia agraria, Italy;
	Statistics in	plant breeding - From field trials to genomic selection
	Heinrich Gra Vienna, Aust	usgruber, University of Natural Resources and Life Sciences, tria;
	Seeing the t	rees despite the forest
	Arne Nothdi Austria;	urft, University of Natural Resources and Life Sciences, Vienna,
	••	of geophysical methods in agriculture: a protocol of measurement alysis for estimating soil water content
		Benedetto, Consiglio per la Ricerca in Agricoltura e l'analisi ia agraria, Italy;
		of soil and crop variables using linear mixed models and remote a in the context of precision agriculture
	Fabio Castal	di, UNITUS, Italy;
AULA	Martini (Floor -1)	
	4:00pm - 5:00pm	Contributed: Missing Data Analysis Chair: Valentin Rousson , University Hospital Lausanne, Switzerland;
	Mixture mo settings	dels for multiple imputation of missing data in longitudinal
		i, Department of Medicine, University of Perugia, Italy;
		ata imputation in survival tree analysis using Bayesian networks
	Paola M.V. F	Rancoita, Vita-Salute San Raffaele University, Italy;

AULA U6-10 (Ground Floor)

4:00pm - 5:00pm	Contributed: Studies in Veterinary, Agricultural and Environmental Research
	Chair: Arne Nothdurft , University of Natural Resources and Life Sciences, Vienna;
On the de	esign of closed recapture experiments
Danilo Al	unni Fegatelli, Sapienza - University of Rome, Italy;
	e of the calibration set size on the prediction of soil organic carbon Vis–NIR spectroscopy
Federica	Lucà, CNR - ISAFOM, Rende, Italy;
	son between generalized linear models and additive bayesian s. Analysing risk factors for leptospira incidence in meat workers in land.
Marta Pit	tavino, University of Zurich, Switzerland;

AULA U6-11 (Ground Floor)

4:00pm - 5:00pm

Contributed: Diagnostic Studies and Meta-Analysis Chair: **John Brian Copas**, University of Warwick, UK;

A flexible statistical-bioinformatic strategy for the development of a volatile classifier discriminating the exhaled breath of breast cancer patients and healthy volunteers.

Elena Landoni, University of Mllan, Italy;

ROC analysis developments in a multistate diagnostic setting: a new threshold estimation method

Giuseppe Rossi, CNR, Pisa, Italy;

Small-sample bias of limits of agreement in method comparison metaanalyses

Michael Vock, University of Bern, Switzerland;

19 JUNE – FRIDAY

Statistical Methods in Nutritional Epidemiology – Satellite Meeting

University of Milan, Sala Napoleonica, Via S. Antonio, 12, Milano

Chairs: Adria	Chairs: Adriano Decarli and Carlo La Vecchia, Dept. of Clinical Sciences and Community Health, UNIMI	
09:30	The VIDAL Trial: a cluster randomised comparison of open v. placebo-controlled allocation of high-dose vitamin D in healthy adults. Julian Peto, Department of Non- Communicable Disease Epidemiology, London School of Hygiene and Tropical Medicine, London, UK.	
09:55	Are complex models in nutritional epidemiology always worth the trouble? Pietro B. Ferrari, Nutrition and Metabolism Section, IARC, Lyon, France.	
10:20	More than just hazard ratios: using flexible parametric survival models to comprehensively investigate associations in prospective cohort studies. David C. Muller, Genetic Epidemiology Group, IARC, Lyon, France.	
10:45	The effect of diet on human milk composition – is it relevant for public health? Frank Wiens, Nutricia Research, Utrecht, Netherlands.	
11:10	Statistical methods to assess the association between food intake and childhood obesity. Iris Pigeot-Kübler, Leibniz-Institut für Präventionsforschung und Epidemiologie, Bremen, Germany.	
11:35	Nutritional epidemiology of cancer in case-control studies: from dietary assessment to a metagenomics approach. Marta Rossi, DISCCO, UNIMI, Italy.	
12:00	The hygiene hypothesis revisited: Role of Microbiota and Mycobiota in Immune regulation. Duccio Cavalieri, Mach Foundation, S.Michele all' Adige, Italy.	

12:30	Lunch Break
-------	-------------

	Round Table
14:00	In an integrated picture of different points of view, the speakers will bring to the attention of the participants their ideas on the available evidence on healthy dietary habits and on the open issues that researchers need to address for a deeper understanding of the relationship between foods, nutrients and health. Chairs: Franco Berrino , IRCCS-INT Foundation, Milan, Italy and Hanno Ulmer , Department of Medical Statistics, Informatics and Health Economics, Innsbruck Medical University.
	Speakers:
	• Wolfgang Ahrens, Leibniz-Institut für Präventionsforschung und Epidemiologie,



POSTER LIST

¹ Raw data maximum likelihood estimation for principal component analysis and two types of common principal component model: A state space approach

Fei Gu¹, Yiu-Fai Yung²

1McGill University, Canada; ²SAS Institute Inc., USA;

2 The attractiveness of network meta-analysis

Teresa Greco^{1,2}

1Department of Anesthesia and Intensive Care, IRCCS San Raffaele Scientific Institute, Milan, Italy; ²Laboratorio di Statistica Medica, Biometria ed Epidemiologia "G. A. Maccacaro",Dipartimento di Scienze Cliniche e di Comunità, University of Milan, Milan, Italy;

3 Effect of one-patient clusters on power in cluster-randomized trials

Stefanie Hayoz, Dirk Klingbiel

Swiss Group for Clinical Cancer Research (SAKK) Coordinating Center, Statistics Unit, Bern, Switzerland;

4 Reproducibility probability estimation for common nonparametric testing

Daniele De Martini, Lucio De Capitani Università di Mlano-Bicocca, Italy;

⁵ The evaluation of the Austrian's Disease Management Program in patients with diabetes mellitus type 2 - An application of propensity score matching

Regina Riedl, Andrea Berghold Institute for Medical Informatics, Statistics and Documentation, Medical University of Graz, Austria;

⁶ The use of a generalized measure of imbalance to allow the use of the big stick randomization procedure for more than two treatment groups and unequal allocation rates: a simulation study

Petra Ofner-Kopeinig, Maximilian Errath, Andrea Berghold University of Graz, Austria;

7 Confidence intervals for fractional polynomials

Daniela Dunkler, Mariella Gregorich, Georg Heinze Medical University of Vienna, Austria;

⁸ The evaluation of the activities and decisions in health systems: a new methodological approach

Valentina Rosato¹, Anita Andreano², Antonio Russo³, Adriano Decarli^{1,4}

1Department of Clinical Sciences and Community Health, University of Milan; Milan, Italy; ²Center of Biostatistics for Clinical Epidemiology, Department of Health Sciences, University of Milan-Bicocca; Monza, Italy; ³Epidemiology Department, Local Health Authority; Milan, Italy; ⁴Unity of Medical Statistics, Biometry and Bioinformatics, Fondazione IRCCS Istituto Nazionale Tumori; Milan, Italy;

9 Bivariate model with non parametric random effects for diagnostic meta-analyses

Paolo Eusebi^{1,2}

1Department of Medicine, University of Perugia, Italy; ²Department of Epidemiology, Regional Health Authority of Umbria, Perugia, Italy;

¹⁰ Spatial mixed effect models to investigate relationships between trees and soil in an alluvial plain

Chiara Ferré¹, Annamaria Castrignanò², Roberto Comolli¹

1 Milano Bicocca University, Italy; ²CRA-SCA Consiglio per la Ricerca e la Sperimentazione in Agricoltura, Italy;

¹¹ Discrimination of alluvial fan depositional processes through a statistical approach (Calabria, S. Italy)

Federica Lucà¹, Gaetano Robustelli²

1CNR - Institute for Agricultural and Forest Systems in the Mediterranean (ISAFOM), Rende (Cosenza), Italy; ²Department of Biology, Ecology and Earth Sciences (DIBEST), University of Calabria, Rende (Cosenza), Italy;

12 Flexible behavioral capture-recapture modelling

Danilo Alunni Fegatelli, Luca Tardella Sapienza – University of Rome, Italy;

13 Confidence intervals for a partially identified parameter with bounds estimated by the minimum and the maximum of two correlated and normally distributed statistics

Aleksandar Pramov, Marco Bonetti Università Commerciale Luigi Bocconi, Italy;

¹⁴ A weighted form of the estimator for the cause-specific cumulative incidence function can be computationally more efficient using R

Alessandro Gasparini Università degli Studi di Milano-Bicocca, Italy;

¹⁵ Use of mixed effect models to investigate the relationships of hyperspectral and fluorescence data with plant variables

Anna Maria Stellacci¹, Matteo Stelluti¹, Pasquale Losciale¹, Roberta Rossi¹, Daniela De Benedetto¹, Luigi Tarricone², Laura D'Andrea¹, Matteo Tomaiuolo¹, Pasquale Campi¹, Luisa Giglio¹, Francesco Fornaro¹, Carolina Vitti¹, Vittorio Vonella¹, Annamaria Castrignanò¹

1Consiglio per la Ricerca in Agricoltura e l'analisi dell'economia agraria, Research Unit for Cropping System in Dry Environments, CRA-SCA; ²Consiglio per la Ricerca in Agricoltura e l'analisi dell'economia agraria, Research Unit for Viticulture and Enology in Southern Italy, CRA-UTV;

¹⁶ Aggregating epidemiological evidence through multivariate syndromic surveillance: methodological challenges with a particular focus on animal health data

Wei Wei¹, Flavie Vial², John Berezowski², Leonhard Held¹

1Epidemiology, Biostatistics and Prevention Institute, University Zurich, Switzerland; ²Veterinary Public Health Institute, University of Bern, Switzerland;

¹⁷ Characterising the provision of SeHCAT services in the United Kingdom: A multicentre prospective survey

Jennifer Ann Summers^{1,2}, Bola Coker^{2,3}, Viktoria McMillan², Mercy Ofuya^{1,2}, Stephen Keevil^{2,3}, Cornelius Lewis^{2,4}, Janet Peacock^{1,2}, Fiona Reid^{1,2}

1King's College London, United Kingdom; ²KiTEC (King's Technology Evaluation Centre), London, UK; ³Guy's & St Thomas' NHS Foundation Trust; ⁴King's College Hospital NHS Foundation Trust;

¹⁸ Comparison of design options for phase IB clinical trials in oncology: simulation results.

Martin Bigler, Stefanie Hayoz, Alexandros Xyrafas, Dirk Klingbiel

Swiss Group for Clinical Cancer Research (SAKK) Coordinating Center, Statistics Unit, Bern, Switzerland;

¹⁹ Research protocol for a multi-centre study to investigate the diagnostic accuracy of the SeHCAT test in measuring bile acid malabsorption

Fiona Reid^{1,2}, Janet Peacock^{1,2}, Bola Coker^{2,3}, Viktoria McMillan^{1,2}, Cornelius Lewis^{2,4}, Stephen Keevil^{1,2,3}, Roy Sherwood⁴, Gill Vivian⁴, Robert Logan⁴, Jennifer Summers^{1,2}

1King's College London, United Kingdom; ²King's Technology Assessment Centre (KiTEC), London, United Kingdom; ³Guy's & St Thomas' NHS Foundation Trust, London, United Kingdom; ⁴King's College Hospital NHS Foundation Trust, London, United Kingdom;

²⁰ Prevalence and determinants of overweight and obesity in Europe

Alessandra Lugo¹, Carlo La Vecchia¹, Adriano Decarli¹, Silvano Gallus² 1Università degli Studi di Milano, Italy; ²IRCCS - Istituto di Ricerche Farmacologiche Mario Negri;

²¹ Influence of different level of haemolysis on microRNAs for the early diagnosis of colorectal cancer

Chiara Maura Ciniselli^{1,2}, Sara Pizzamiglio¹, Stefano Bottelli¹, Susanna Zanutto^{3,4}, Antonino Belfiore⁵, Manuela Gariboldi^{3,4}, Paolo Verderio¹

¹Unit of Medical Statistics, Biometry and Bioinformatics, Fondazione IRCSS Istituto Nazionale dei Tumori, Milan, Italy; ²Department of Clinical Science and Community Health, University of Milan, Milan, Italy; ³Department of Experimental Oncology and Molecular Medicine, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; ⁴Molecular Genetics of Cancer, Fondazione Istituto FIRC di Oncologia Molecolare, Milan, Italy; ⁵Department of Pathology, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy;

22 Assessing reproducibility in the microRNA circulating biomarkers identification workflow

Stefano Bottelli¹, Sara Pizzamiglio¹, Chiara Maura Ciniselli^{1,2}, Susanna Zanutto^{3,4}, Manuela Gariboldi^{3,4}, Paolo Verderio¹

1Unit of Medical Statistics, Biometry and Bioinformatics, Fondazione IRCSS Istituto Nazionale dei Tumori, Milan, Italy; ²Department of Clinical Science and Community Health, University of Milan, Milan, Italy; ³Department of Experimental Oncology and Molecular Medicine, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; ⁴Molecular Genetics of Cancer, Fondazione Istituto FIRC di Oncologia Molecolare, Milan, Italy;

²³ Prevalence and trends of different type of alcoholic beverages in Italy

Alessandra Lugo¹, Rosario Asciutto², Carlo La Vecchia¹, Adriano Decarli¹, Silvano Gallus³

1Università degli Studi di Milano, Italy; ²University of Palermo, Italy; ³IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Italy;

²⁴ MFMM – Modified Fuzzy Mortality Model based on C*-Banach algebra

Andrzej Szymański, Agnieszka Rossa

University of Lodz, Poland;

25 Risk factors for reduced pulmonary function in European cystic fibrosis patients

Anna Zolin¹, Anna Bossi¹, Kris De Boeck²

1Department of Clinical Sciences and Community Health, Laboratory of Medical Statistics and Biometrics, University of Milan, Italy; ²Department of Pediatrics, University of Leuven, Belgium;

²⁶ Comparison of age-period-cohort models for the analysis of mortality rates

Tiziana Rosso¹, Matteo Malvezzi^{1,2}, Adriano Decarli¹

1Department of Clinical Sciences and Community Health, Università degli Studi di Milano, Milan, Italy; ²Department of Epidemiology, IRCCS - Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy;

²⁷ Prognostic evaluation in palliative care: testing for improvement in prediction model performance

Manuela Giangreco¹, Giulia Barbati^{2,4}, Micol Mazzer³, Paola Ermacora³, Giuseppe Aprile³, Giorgia Gregoraci¹, Cosimo Stanislao Sacco³, Fabio Puglisi^{1,3}, Gianpiero Fasola³, Miriam Isola¹

1Department of Medical and Biological Sciences, University of Udine, Italy; ²Cardiovascular Department, "Ospedali Riuniti" and University of Trieste, Italy; ³Department of Oncology, University Hospital 'S Maria della Misericordia', Udine, Italy; ⁴Cardiovascular Center, A.S.S.1, Trieste, Italy;

28 Impact of maternal nutrition on breast milk composition: a systematic review

Francesca Bravi¹, Alessia Dal Pont², Frank Wiens³, Carlo Agostoni¹, Adriano Decarli¹, Monica Ferraroni¹

1Università degli Studi di Milano, Milan, Italy; ²Università degli Studi di Milano-Bicocca, Mllan, Italy; ³Nutricia Research, Utrecth, the Netherlands;

²⁹ Evaluating prognostic accuracy of multiple longitudinal predictors in a standard time-dependent Cox model framework

Giulia Barbati¹, Marco Merlo², Andrea Di Lenarda³, Gianfranco Sinagra⁴

1University of Trieste, Italy; ²Cardiovascular Department, "Ospedali Riuniti", Italy; ³Cardiovascular Center, Health Authority no. 1, Trieste, Italy; ⁴Cardiovascular Department, "Ospedali Riuniti" and University of Trieste, Italy;

30 Safety analysis for individualized treatment

Cornelia Dunger-Baldauf

Novartis Pharma AG, Switzerland;

³¹ A comparison of the logistic regression model and the random coefficients linear mixed model for analysis of disease progression

Maria Neubauer, Georg Heinze Medical University of Vienna, Austria;

32 Chances and challenges of using routine data collections for health care research

Christine Wallisch, Georg Heinze Medical University of Vienna, Austria;

SOCIAL ACTIVITIES INFORMATION

SOCIAL DINNER

The social dinner will take place on **Thursday 18th June at 19:30** at Ristorante Botto. It is walking distance from the conference site in via Ernesto Breda 29, Milan.

SOCIAL ACTIVITIES

The social activities will take place on **Wednesday 17th June,** in the afternoon, after the Italian and ROeS Regional Meetings.

1- Trip to the Basilica of San Pietro al Monte, Civate (LC).

Individual cost of the trip: 25 € (max). The cost includes the entrance and guide to the Basilica and the bus transfer. The costs could vary depending on the number of participants.

A bus will take the participants from the conference venue to Civate (40 min.). An easy 1 hour mountain walk (suitable shoes and clothing are required) is necessary to reach the Basilica of San Pietro al Monte, where a guide of the "Amici di San Pietro" association will illustrate this beautiful romanic church. Departure will be around 1.30 pm and return to Milan around 7.30 pm.

2 - Visit to the EXPO2015.

Cost of one ticket for a single day entrance: 21 €. The transfer to EXPO is not included (but there is cheap public transportation).

The EXPO2015 exhibitions and food stalls will be open until 23:00 in the evening.

By underground railway (metro)

To reach the Exposition Site by underground (metro), purchase an extra-urbano (extra-urban) ticket, and take Linea 1 (Red line 1) to Rho Fiera Milano metro station. Take the Lilla-line 5 Bicocca, then change at Zara and take the yellow-line 3. Change at Centrale and take the Green-2 line to Cadorna.

Exiting the Rho Fiera Milano underground station, which is close to the Fiorenza Ovest - San Carlo access point, visitors take the steps (currently under construction) to the Security Plaza. Once through the security checks, visitors cross the Expo-Fiera pedestrian footbridge (PEF) to reach the Expo Site.

With Trenord, regional and suburban train services

To reach the Exhibition Site by train simply follow signs to Rho Fiera Milano EXPO 2015 train station. Suburban train lines S11 line from Bicocca railway Station provide direct connections to Rho Fiera Milano EXPO 2015 train station.

For more information, please visit the EXPO Milano 2015 web-site.

3 - Visit to the Last Supper of Leonardo da Vinci.

There is the possibility to visit the Last Supper of Leonardo da Vinci for a limited number of persons participating to "The Last Supper - Guided Tour".

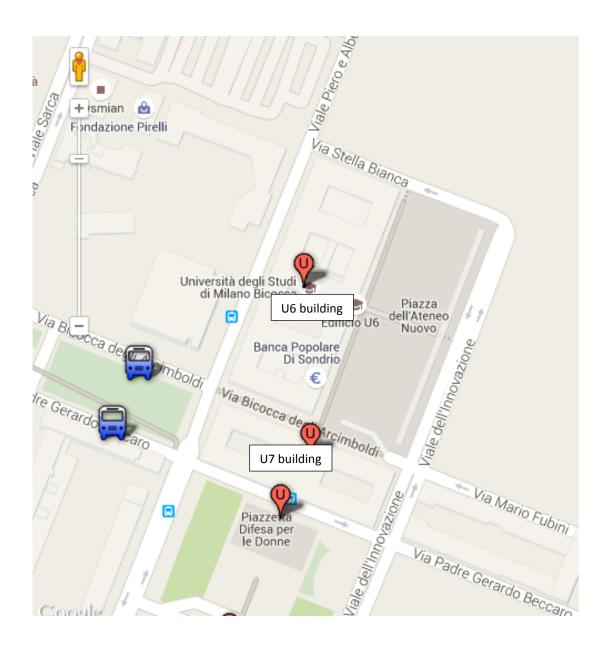
Individual cost: 40 €

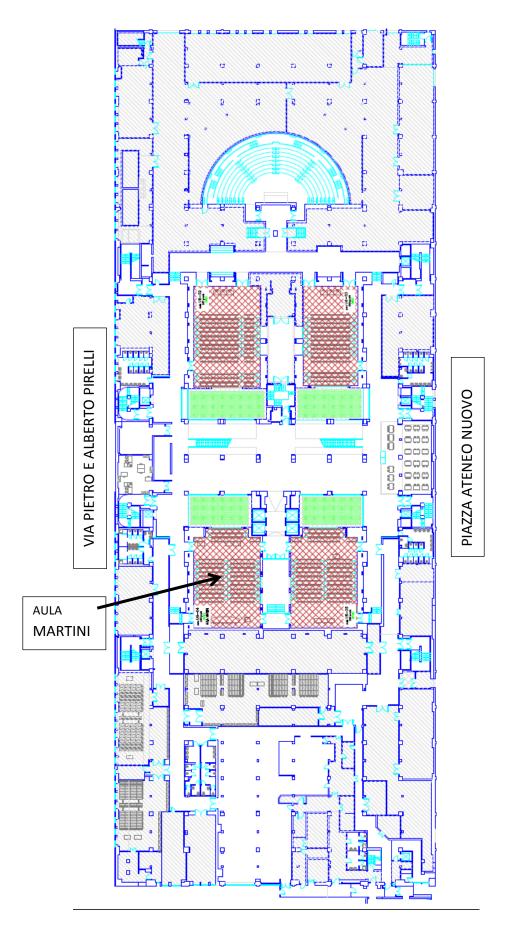
Starting time of the tour: 17:30. Total duration of the tour: 45 min.

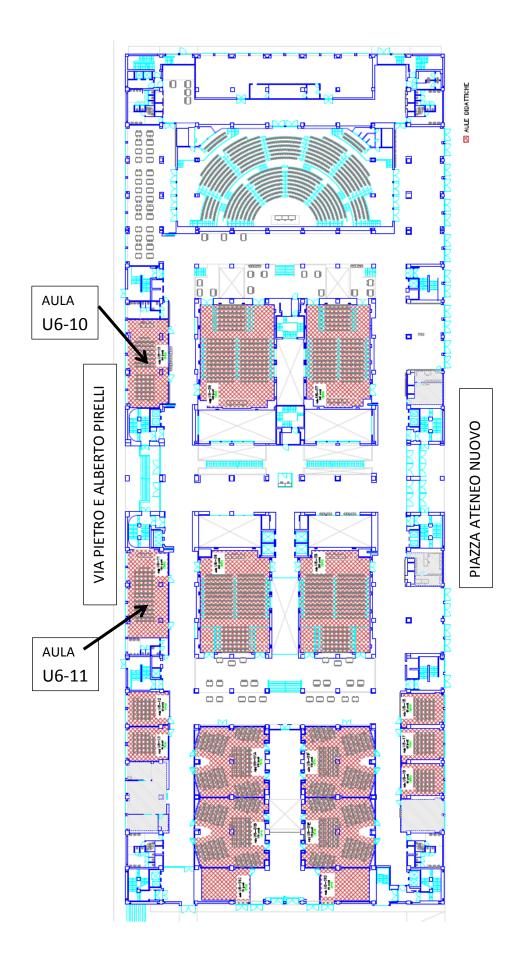
The guide of MUSEMENT agency, will be waiting for the participants at 17:30 in Piazza Santa Maria delle Grazie, which is close to CADORNA underground station (Green and Red line) please take the voucher with you.

VENUE MAPS

U6 and U7 Building Location







SPONSORS



JOINT MEETING

of the International Biometric Society (IBS)

Autro-Swiss and Italian Regions

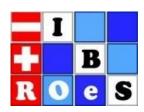
The Meetings are grateful of the support of the following organizations:

















Novartis