

**Optimising Multistudy Integrative Research
18 – 20 September 2019**

**Wellcome Genome Campus,
Hinxton, Cambridge, UK**

Programme

Wednesday, 18th September

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|-------------|--|
| 11:30-12:30 | Registration |
| 12:30-12:40 | Welcome and introductions
<i>Scientific Programme Committee</i> |
| 12:40-13:40 | Keynote lecture
<i>Chair: Scott Hofer</i>

Integrative data analysis: Promises, challenges, and recommendations
<i>Patrick Curran</i>
<i>University of North Carolina at Chapel Hill, USA</i> |
| 13:40-14:40 | Session I: Approaches for multistudy analysis
<i>Chair: Josep Maria Haro</i>

13:40 Undertaking data harmonization: Challenges and opportunities
<i>Isabel Fortier</i>
<i>McGill University, Canada</i>

14:10 Advantages and challenges of the IALSA coordinated analytical approach
<i>Graciela Muniz</i>
<i>University of Edinburgh, UK</i> |
| 14:40-15:00 | Afternoon Tea |
| 15:00-16:30 | Session I continued: Approaches for multistudy analysis
<i>Chair: Josep Maria Haro</i>

15:00 DataSHIELD: take the analysis to the data - not the data to the analysis
<i>Paul Burton</i>
<i>Newcastle University, UK</i> |

	15:30	Optimum weighting schemes when performing Matching-Adjusted Indirect Comparisons <i>Dan Jackson</i> <i>Astra Zeneca, UK</i>
	16:00	Discussion
16:30-17:00		Lightning talks
17:00-18:30		Poster session with drinks reception
18:30 prompt		Buffet dinner
18:30		Cash bar

Thursday, 19th September

09:00-10:40		Session 2: Applications of integrative data analysis <i>Chair: Graciela Muniz</i>
	09:00	Assessing cardiovascular risk using multiple studies: The emerging risk factors collaboration <i>Angela Wood</i> <i>University of Cambridge, UK</i>
	09:30	Multistudy research on risk factors for dementia: Assessment of reverse causation <i>Archana Singh-Manoux</i> <i>INSERM, France</i>
	10:00	Variations in age-related depression trajectories <i>Emma Waterston</i> <i>University of Edinburgh, UK</i>
	10:20	Discussion
10:30-11:00		Morning coffee
11:00-12:40		Session 3: Challenges and solutions related to heterogeneity in data, measurement, and multistudy results <i>Chair: Edwin van den Heuvel</i>
	11:00	Scientific replication and prediction: The major role of multi-study integrative research <i>Scott Hofer</i> <i>University of Victoria, Canada</i>
	11:30	The ATHLOS project: Harmonizing population cohorts in ageing research <i>Josep Maria Haro</i> <i>University of Barcelona, Spain</i>

	12:00	The Older Persons and Informal Caregivers Survey Minimum Dataset (TOPICS-MDS): an example and experiment of nationwide open data sharing in gerontology and geriatrics <i>René Melis</i> <i>Radboud University Medical Center, The Netherlands</i>
	12:20	Discussion
12:40-14:00		Lunch
14:00-15:00		Session 4: Data sharing: Ethical and legal challenges for collaborative research <i>Chair: Isabel Fortier</i>
	14:00	Ethical and legal challenges revisited in practice <i>Michaela Mayrhofer</i> <i>BBMRI-ERIC, Austria</i>
	14:40	Discussion
15:00-15:30		Afternoon tea
15:30-18:00		Session 5: Measurement harmonization: Approaches and recommendations <i>Chair: Isabel Fortier</i>
	15:30	Fitting the harmonization approach to the harmonization problem: the IGEMS experience <i>Chris Beam</i> <i>University of Southern California, USA</i>
	16:00	The tools of harmonization <i>Edwin van den Heuvel</i> <i>Eindhoven, The Netherlands</i>
	16:30	The Healthy Life Trajectories Initiative: A prospective harmonization of four mother and child cohorts <i>Julie Bergeron</i> <i>Maelstrom Research, Canada</i>
	17:00	Harmonizing longitudinal measures of cognition across AIBL and ADNI (two of the largest global studies on Alzheimer's) <i>Rosita Shishegar</i> <i>CSIRO, Australia</i>
	17:30	Discussion
18:00-18:30		Drinks reception
18:30 prompt		Silver service conference dinner
18:30		Cash bar

Friday, 20th September

09:00-10:30

Session 6: Experiences in multistudy collaborative research

Chair: Graciela Muniz

09:00 Multistudy research in the LifeCycle Consortium: Setting up the EU Child Cohort Network

Janine Felix

Erasmus University Medical Center, The Netherlands

09:30 Two decades of data harmonization and analysis in the MORGAM / BiomarCaRE consortium

Kari Kuulasmaa

National Institute for Health and Welfare (THL), Finland

10:00 Dementias Platform UK (DPUK): Developing solutions for multi-cohort and multi-modal data

John Gallacher

Dementias Platform, UK

10:30-11:00

Morning coffee

11:00-12:30

Session 6 continued: Experiences in multistudy collaborative research

Chair: Michaela Mayrhofer

11:00 Exclusivity or open relationships? An experience of working within I0/66 and ATHLOS

Matthew Prina

Kings College, London

11:30 MINDMAP: integrating longitudinal ageing studies, policy information, and area-level environmental exposures to identify opportunities offered by the urban environment for mental well-being of older adults

Mariëlle Beenackers

Erasmus University Medical Center, The Netherlands

12:00 Aspects of multi-study integrative research in the design of the population-based health surveys HUNT in Norway

Andreas Weser

Norwegian University of Science and Technology, Norway

12:20 Discussion

12:40-13:30

Session 7: Panel discussion - Optimising results from multistudy consortia: Lessons learned and persisting challenges

Chair: Scott Hofer

13:30-13:45

Closing remarks

Scott Hofer, University of Victoria, Canada

13:45 -14:00

Take away lunch

14:00 prompt

**Coaches depart to Cambridge City Centre and Train Station,
Heathrow Airport via Stansted Airport**