

6th Mendelian randomization conference, 2024

Poster session 1: Wednesday 19 June, 16.45 to 17.45

Location	Presenter	Title
1	Ninghao Huang, Peking University	Evaluating Metformin's Multifaceted Effects: A Phenome-Wide Drug-Targeted Mendelian Randomization Study in the UK Biobank
2	Benjamin Woolf, University of Cambridge & University of Bristol	Comparison of caffeine consumption behavior with plasma caffeine levels as exposure measures in drug-target Mendelian randomization
3	Yann Ilboudo, Lady Davis Institute	Vitamin D and the preclinical Alzheimer's cognitive composite (PACC) score: observational and two-sample Mendelian randomization studies
4	Amy Shakeshaft*, Cardiff University	Long-term physical health conditions and youth anxiety and depression: is there a causal link?
5	Rachel Visontay, The University of Sydney	Alcohol use and mental health: An updated review of Mendelian Randomization studies
6	Linjun Ao, Leiden University Medical Center	The effects of genetic variation on cardiometabolic risk factors during ageing: Testing the assumption for life-course Mendelian Randomization
7	Alexander Robbins, University of Exeter	The effect of Interleukin-6 signalling on the development of empyema: A Mendelian Randomisation Study
8	Tim Larsen, University of Bristol	The effect of maternal depression on pregnancy and perinatal outcomes: evidence from Mendelian randomization and parental negative control analyses
9	Olympia Dimopoulou, University of Bristol	Exploring mechanistic pathways associated with prostate cancer: the role of sex-hormones
10	David Hughes, Pennington Biomedical Research Center	Estimating the causal effect of body mass index on gut microbiota.
11	Haodong Tian, University of Cambridge	Estimating time-varying exposure effects through continuous-time modelling in Mendelian randomization
12	Tom Palmer, University of Bristol	The MRC IEU R-Universe of Mendelian randomization related R packages
13	Hanan Musa, University of Oslo	Using Mendelian randomization to examine evidence for the adverse transgenerational effect of grandparental smoking and drinking on the birthweight of their grandchildren
14	Yongho Jee, Ewha Womans University Seoul Hospital	Repurposing antidiabetic drugs for rheumatoid arthritis among East-Asian Population: results from a two-sample Mendelian randomization study
15	Ella Fryer, University of Bristol	Investigating the causal effect of previously reported therapeutic agents for colorectal cancer prevention
16	Muhannad Smadi, Amsterdam UMC	Examining the Impact of Genome-wide Findings for Tobacco Use through GWAS Impact Analysis

17	Daniel Rosoff, University of Oxford	Evaluating the impact of C-reactive protein levels on cardiovascular disease: a comparison of Mendelian randomization estimates across different methods and instrument inclusion
18	Emily Bassett, MRC Biostatistics Unit	Vitamin D, chronic pain, and depression: linear and non-linear Mendelian randomization analyses
19	Joseph Gilbody, University of Bristol	Multivariable MR can mitigate bias in two-sample MR using covariable-adjusted summary associations
20	Phoebe Dickson, University of Bristol	Applying tissue-partitioned Mendelian randomization to separate the molecular subcomponents of adiposity on the human plasma proteome.
21	Ang Zhou, MRC Biostatistics Unit	IV selection to maximise variance explained in cis Mendelian Randomization (cis-MR)
22	Haotian Tang*, University of Bristol	Genetically proxied PAR-1 and chronic kidney disease: a Mendelian Randomization study
23	Helena Urquijo, University of Bristol	Leveraging human genetic variation and a zebrafish model to investigate novel and repurposing drug target opportunities for aortic valve stenosis.

Poster session 2: Thursday 20 June, 13.45 to 14.45

Location	Presenter	Title
1	Brenda Cabrera-Mendoza, Yale University	Influence of the genetic liabilities to bipolar disorder, schizophrenia, and behavioral traits on suicide attempt: A Multivariable Mendelian Randomization Approach
2	Kaitlin Wade, University of Bristol	Application of Mendelian randomization studies assessing the causal role of the gut microbiome in human health and disease: a systematic review
3	Benjamin Zuckerman, King's College London	Association between interleukin-12 p40 subunit and risk of primary Sjögren's syndrome: a Mendelian randomization study.
4	Liv Tybjærg Nordestgaard, University of Bristol	High body mass index, intermediate risk factors, and risk of vascular-related dementia: a Mendelian randomization study
5	Eva Lukas, Department of Psychiatry, Amsterdam UMC	A genetic exploration of the relationship between Posttraumatic Stress Disorder and cardiovascular diseases
6	Valentina Paz, Universidad de la República, Uruguay	Association between the circadian system and depression: a Mendelian randomisation study in the UK Biobank
7	Rebecca Richmond*, University of Bristol	Assessing the reporting quality of two-sample summary data Mendelian randomization studies before and after the introduction of STROBE-MR: a systematic review
8	Marie-Joe Dib, University of Pennsylvania	Proteome-wide Mendelian Randomization Identifies Natriuretic Peptide-B and novel proteins as potential regulators of pulse pressure in humans
9	Makayla Lou, Cancer Council Victoria	The impact of genetically predicted sleep traits on lung cancer risk: a two-sample Mendelian randomisation study
10	Helene Cronje, University of Copenhagen	Dopamine D2 receptor antagonism and neuropsychiatric outcomes: evidence from Mendelian randomization identifies repurposing potential for treating frailty

11	Aaron Mitchell, University of Bristol	A stepwise approach to generating multivariable Mendelian randomisation models with correlated traits.
12	Guoyi Yang, The University of Hong Kong. Presented by Stephen Burgess, University of Cambridge	Multi-biobank Mendelian randomization analyses identify opposing pathways in plasma low-density lipoprotein-cholesterol lowering and gallstone disease
13	Phazha Bothongo, University College London	Phenome-Wide Association Study of White Matter Hyperintensities Reveals Genetic Insights into Dementia with Vascular Components
14	Lachlan Gilchrist, King's College London	Identifying metabolomic risk factors for psychiatric and neurodegenerative disorders: A metabolome-wide mendelian randomisation study
15	Joshua Burton, University of Bristol	Proteome-wide Mendelian randomisation of 2,167 disease outcomes in UK Biobank and FinnGen
16	Jasmine Khouja, University of Bristol	Estimating the health impact of nicotine exposure by dissecting the effects of nicotine versus non-nicotine constituents of tobacco smoke: A multivariable Mendelian randomisation study
17	Afroditi Kanellopoulou, University of Ioannina	Investigating the association between anthropometry and colorectal cancer survival: a two-sample Mendelian Randomization study
18	Devleena Ray, University of Bristol	Mendelian randomization study of the on-target effects of long-term aromatase inhibitor use
19	Elisabeth Aiton, University of Bristol	Characterising effects of autoimmune disease liability and targets of their treatment on adverse pregnancy outcomes using Mendelian Randomization
20	Erin Macdonald-Dunlop, Pfizer	Comparison of Proteome-wide Mendelian Randomization and protein polygenic scores in identifying biomarkers of neuroinflammatory diseases
21	Emmanouil Bouras, University of Ioannina	Using Mendelian randomization analysis to investigate the relationship of plasma micro-RNAs and colorectal cancer risk
22	Alex Monson, University of Bristol	Establishing the Bidirectional Effects Between Manic and Depressive Symptoms Using Two-Sample Mendelian Randomization
23	Matthew Lee, International Agency for Research on Cancer	Adiposity, proteins, and colorectal cancer: mendelian randomization and colocalization analyses with prospective analyses in the European Prospective Investigation into Cancer
24	Silvia Shen, University of Edinburgh	Leveraging reverse-gear mendelian randomisation to identify protein blood biomarkers and therapeutic targets of atopic dermatitis