

| Date | Time | Session | Theme | Presenter | Title |
|---------------------------|-----------------|--------------------|--------------------------------------|---|--|
| 7 Feb 2024 - Day 1 | | | | | |
| | 8.30 - 9.15am | Registration | | | |
| | 9.15 - 9.30am | Opening Address | | Ian Henderson / Peter Visscher | |
| | 9.30 - 11.00am | 1 | Epidemiology I | Rory Collins Giulio Centorame Scott Farrell | No evidence of interaction between FADS2 genotype and breastfeeding on cognitive traits in the UK Biobank C-reactive protein (CRP) is increased chronic pain conditions independent of biopsychosocial factors |
| | 11.00 - 11.30am | Break | | | |
| | 11.30 - 1.00pm | 2 | Epidemiology II | Babatunde Olasege Katherine Huang Chinonso Odebeatu Katie Harris | A reference-free approach to detect ascertainment bias in large biobank Discriminating ME CFS and comorbidities with NMR metabolomics in UK Biobank Greenspace and the risk of obesity-related cancer in the UK Biobank cohort- analysis of private residential gardens and other greenspace types Sex Differences In Multimorbidity Associated With Acute Stroke- Results From The UK Biobank |
| | 1.00 - 2.00pm | Lunch and Poster | | | |
| | 2.00 - 3.30pm | 3 | Genetic Epidemiology | Jason Luo Zhihong Zhu Santiago Diaz-Torres Isabelle McGrath | Sex Differences in the Experience of Pain and Multimorbidity within the UK Biobank The correlates of neonatal Complement Component 4 protein concentration with a focus on psychiatric and autoimmune disorders Genome-wide multi-ethnic meta-analysis identifies 22 independent risk loci for normal tension glaucoma and predominantly overlaps with high tension glaucoma Rethinking the interplay between genetic risk and comorbid disorders in the UK Biobank |
| | 3.30 - 4.00pm | Break | | | |
| | 4.00 - 5.30 pm | 4 | Genetics and Genomics I | Nick Martin Ruolan Zhao Chaw Thwe Valentin Hivert | Finding genes for female fertility in Europe, Africa and Asia A novel Cell-Type-Specific Polygenic Score (ctPGS) method to identify Cell Types Relevant to Complex Traits Detecting natural selection signatures in multiple sclerosis genetic variants using landscape genomics Unveiling the challenges- the difficulty in making reliable inferences of between-population mean genetic differences from GWAS |
| | 5.45 - 7.45 pm | Welcome Event (WE) | | | |
| 8 Feb 2024 - Day 2 | | | | | |
| | 9.00 - 10.30am | 5 | Imaging I | Thomas Nicolls Caio Seguin Baptiste Couvy-Duchesne | Connectomes for 40,000 UK Biobank participants- A multi-modal, multi-scale brain network resource Proxy phenotypes for Alzheimer's disease in neuroimaging studies using the UK Biobank |
| | 10.30 - 11.00am | Break | | | |
| | 11.00 - 12.30pm | 6 | Imaging II / Mendelian Randomisation | Sarah Khalife Rachel Visontay Kym-Mai Nguyen Emily Daubney | Transient and microstructural MRI measures in the ventral tegmental area predict depression severity in the general population Mendelian Randomisation with a focus on sex difference Multivariable Mendelian Randomization Analysis to Separate the Effects of Child and Adult Height on Chronic Disease Risk Proteome-wide Mendelian randomization study of birthweight and adverse perinatal outcomes |
| | 12.30 - 1.30pm | Lunch and Poster | | | |
| | 1.30 - 3.00pm | 7 | Cardiovascular Disease | Barbara Casadei Clara Jiang Letitia Sng Gunn-Helen Moen | Impact of asymptomatic arrhythmias on cerebrovascular disease and cognitive decline in the UK Biobank Imaging Cohort Addressing gender inequity in cardiovascular research- genetic predisposition to depression is a greater risk factor of cardiovascular diseases in women Accounting for Epistasis Increases Power to Identify Genetic Variants Associated with Coronary Artery Disease The Genetics of Extreme Birthweight and its Relationship with Cardiometabolic Disease |
| | 3.00 - 3.30pm | Break | | | |
| | 3.30 - 5.00pm | 8 | Genetics and Genomics II | Duncan Palmer Loic Thibaut Beilei Bian Daniel Liang-Dar Hwang | Exome-wide evidence of compound heterozygous effects across common phenotypes in the UK Biobank Saturated GWAS yields new functional annotation of the human genome Antagonistic pleiotropy in complex traits Influence of common missense variants in chemosensory receptor genes on food preferences |
| | 5.00 - 5.15pm | Closing Remarks | | Peter Visscher | |

POSTER SESSION

| Date | Time | Session | Theme | Presenter | Title |
|---------------------------|----------------------|----------|--------------------------------|-------------------|--|
| 7 Feb 2024 - Day 1 | 1.00 - 1.30pm | 1 | Genetics and Genomics | | |
| | | | | Gad Abraham | Integrating human genetics at scale in CSL's drug development pipeline to increase probability of success |
| | | | | NgocQuynh Le | Ancestry Estimation using the UK Biobank as Reference Dataset |
| | | | | Chenglong Yu | Genome-Wide Association Study of Cardiovascular Resilience Identifies Protective Variation in the CETP Gene |
| | | | | Maryam Marzban | Genomic Structural Equation Modeling Analysis of Glaucoma Endophenotypes Investigating Genetic Architecture and Non-Intraocular Pressure Mechanisms |
| | | | | Ang Li | Comparison and improvement of methods for detecting trait-cell type association using GWAS and single cell RNA-seq data |
| | | | | Dalia Mizikovskiy | Title Analysis of Population-Scale Phenotypic Data Reveals Organisation of Gene Programs Underpinning All Complex Traits |
| | | | | Natalie Twine | Novel Alzheimer's disease genes and epistasis identified using machine learning GWAS platform |
| | | | | Jian Zeng | Joint analysis of GWAS and multi-omics QTL summary statistics reveals a large fraction of GWAS signals shared with molecular phenotypes |
| 7 Feb 2024 - Day 1 | 1.00 - 1.30pm | 1 | Mendelian Randomisation | | |
| | | | | Daisy Crick | Investigating associations between early-life factors and handedness using a multivariable and proxy gene-by-environment Mendelian randomization design |
| 8 Feb 2024 - Day 2 | 1.00 - 1.30pm | 2 | Epidemiology | | |
| | | | | Nicholas Osborne | The role of greenspace in vitamin D status- cross-sectional, observational evidence from the UK Biobank |
| | | | | Raaj Biswas | How vigorous incidental physical activity affects cardiovascular health differently in men and women |
| | | | | Bridget Fellows | Exploring the role of gonadal development gene LHX9 in human infertility |
| | | | | Briar Wormington | Identifying the factor structure of substance use traits and their correlations with mental health-related and other factors |
| | | | | Scott Farrell | No independent association between serum vitamin D status and chronic musculoskeletal pain among 349,221 adults in the UK |
| | | | | Shizuka Hayashi | Non-Inferiority Analysis of a Deep Learning Model for Detecting Perivascular Spaces Using the UK Biobank Dataset- A Large-Scale Study on the Association with Risk Factors |
| 8 Feb 2024 - Day 2 | 1.00 - 1.30pm | 2 | Imaging | | |
| | | | | Chao Dong | The brain age of hippocampus-centred regions and associations with APOE genotype |
| | | | | Elise Delzant | Comparing morphometricity from voxel-wise and vertex-wise processing of T1w brain images |
| | | | | Hadis Jameei | Decomposing cortical thickness heterogeneity by evaluating genetic risk of profiles of psychiatric and medical disorders |

| Date | Time | Title | Presenter |
|-----------------|---------------|---|---|
| 6-Feb-24 | 9-10.30am | Using summary statistics & running a PheWAS in the UK Biobank | Kathryn Kemper |
| | 10.30-11am | Morning Tea | |
| | 11.00-12.30pm | Navigating the UK Biobank Research Analysis Platform. | Dr Huanwei Wang |
| | 12.30-1.30pm | Lunch | |
| | 1.30-3.00pm | Mendelian Randomisation analyses using UK Biobank data | Dr Gunn-Helen Moen, Emily Daubney |
| | 3.00-3.30pm | Afternoon Tea | |
| | 3.30-5.00pm | Using UK Biobank Imaging data | Baptiste Couvy-Duchesne, Elise Delzant, Caio Seguin |