Introduction to the statistical analysis of genome-wide association studies

2 to 6 February 2026

All times in the programme are GMT

	Day 1 – Monday 2.02.2026	Day 2 –Tuesday 3.02.2026	Day 3 – Wednesday 4.02.2026	Day 4 – Thursday 5.02.2026	Day 5 – Friday 6.02.2026
8:45-9:00	**Welcome & introductions**				
Teaching 9.00-10.00	**LECTURE 1** ***Dr Ayşe Demirkan*** *Introduction to Unix and R*	**LECTURE 4** ***Prof Reedik Mägi*** *Quality Control (QC) for GWAS*	**LECTURE 6** ***Prof Inga Prokopenko*** *Association analysis*	**LECTURE 8** ***Prof Inga Prokopenko*** *Imputation of GWAS*	**LECTURE 11a** ***Prof Krista Fischer*** *Genetic risk scores, Mendelian Randomization*
Bio-Break 10.00-10.15					
Teaching 10.15-11.15	**COMPUTER WORKSHOP 1** ***Dr Ayşe Demirkan*** *Introduction to Unix and R*	**COMPUTER WORKSHOP 3** ***Dr Vasiliki Lagou, Dr Ayşe Demirkan*** *QC for GWAS*	**COMPUTER WORKSHOP 4.B** ***Dr Vasiliki Lagou, Prof Inga Prokopenko*** *Association analysis*	**COMPUTER WORKSHOP 6** ***Prof Reedik Mägi*** *Imputation of GWAS*	**LECTURE 11b** ***Prof Krista Fischer*** *Genetic risk scores, Mendelian Randomization*
Bio-break 11.15-11.30					
Teaching 11.30-12.30	**LECTURE 2** ***Reedik Mägi*** *Introduction to GWAS*	**COMPUTER WORKSHOP 3** ***Dr Vasiliki Lagou, Dr Ayşe Demirkan*** *QC for GWAS*	**LECTURE 7** ***Prof Andrew P. Morris*** *Population structure*	**LECTURE 9** ***Prof Andrew P. Morris*** *Meta-analysis of GWAS*	**COMPUTER WORKSHOP 9** ***Prof Krista Fischer*** *Genetic risk scores, Mendelian Randomization*
LUNCH 12.30-13.30			*Group photo/screenshot*		*Course certificates & feedback forms*
Teaching 13.30-14.30	**COMPUTER WORKSHOP 2** ***Prof Reedik Mägi*** *Introduction to GWAS*	**LECTURE 5** ***Prof Krista Fischer*** *Statistical models for genetic association analysis*	**INVITED LECTURE ‡** ***Prof Patricia Munroe*** *Genetics of arterial blood pressure*	**COMPUTER WORKSHOP 7** ***Prof Inga Prokopenko*** *Meta-analysis of GWAS*	**INVITED LECTURE‡** ***Prof Inga Prokopenko*** *Brief Introduction to EWAS*
Bio-break 14.30-14.45					
Teaching 14.45-15.45	**LECTURE 3a** ***Prof Krista Fischer*** *Introduction to statistics for geneticists (part I)*	**COMPUTER WORKSHOP 4.A** ***Dr Marika Kaakinen*** *Association analysis*	**COMPUTER WORKSHOP 5** ***Prof Andrew P. Morris*** *Population structure*	**LECTURE 10** ***Prof Andrew P. Morris*** *Analysis of rare variants*	**LECTURE 12** ***Dr Marika Kaakinen*** *Fine-mapping and functional follow-up of GWAS*
Bio-Break 15.45-16.00					
Teaching 16.00-17.00	**LECTURE 3b** ***Prof Krista Fischer*** *Introduction to statistics for geneticists (part II)*	**LECTURE 5** ***Prof Krista Fischer*** *Statistical models for genetic association analysis*	**COMPUTER WORKSHOP 5** ***Prof Andrew P. Morris*** *Population structure*	**COMPUTER WORKSHOP 8** ***Prof Andrew P. Morris*** *Analysis of rare variants*	**COMPUTER WORKSHOP 10** ***Dr Marika Kaakinen*** *Fine-mapping and functional follow-up of GWAS*
17.00-18.00					**Q&A SESSION & COURSE CLOSURE**