

國立政治大學統計學系 學術演講

主講人：謝瓊如 副教授 (淡江大學統計學系)

題目：Genomic Data and Causal Inference: Precision
Medicine in the Era of Big Data

時間：民國 114 年 2 月 21 日 (星期五) 下午 1：30

地點：國立政治大學研究大樓 250203 教室

摘要：

Genetic research has revolutionized precision medicine, offering deeper insights into disease mechanisms, risk prediction, and targeted therapies. Genome-wide association studies (GWAS) have identified thousands of genetic variants linked to complex diseases. Polygenic Risk Scores (PRS) help assess genetic predispositions, improving early detection and personalized prevention. Mendelian Randomization (MR) establishes causal links between risk factors and diseases, guiding interventions based on genetic evidence. The integration of GWAS, PRS, and MR enables genetic risk stratification, causal inference, and disease prevention. Genetic research could focus on multi-ethnic validation, functional genomics, and clinical implementation to enhance the translational impact of genetic discoveries. As genetic methodologies continue to evolve, they will pave the way for a more effective approach to medicine, ultimately improving patient outcomes through data-driven precision health strategies.

歡迎參加

統計系敬邀