

Comprehensive Pharmacogenomics in Psychiatry: From Metabolic Genes to Pharmacodynamic Targets and HLA Typing

Nicolas Picard

Limoges University Hospital, France

Pharmacogenomics is evolving toward more complete genomic profiling that encompasses both metabolic and pharmacodynamic pathways, and immune-related determinants of drug response. In this session, Nicolas Picard will share his team's experience with NGS-based PGx testing and new results obtained using the SOPHiA DDM™ Extended PGx Solution. The talk will focus on the extension of panel testing in psychiatric settings and the integration of high-resolution HLA typing into a single, comprehensive PGx workflow, moving beyond traditional marker-based approaches. Through examples from his research and laboratory practice, Prof. Picard will demonstrate how unified analysis and interpretation of a comprehensive set of variants can improve the identification of drug efficacy and hypersensitivity risks, supporting more informed clinical decisions.