

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

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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.