RT STATGEN : ANNUAL MEETING Tuesday December 9, 8h30-18h30

8h30-9h00 Welcome Coffee

9h00-9h05 Introduction PDG Inserm, Emmanuelle Génin IT GGB & Robert Barouki IT SP 9h05-9h15 Program overview, Anne-Louise Leutenegger and Emmanuelle Bouzigon

Session 1: Statistics and genetic epidemiology

9h15-9h45: Keynote Speaker - Iuliana Ionita-Laza

9h45-10h05: Berrandou Takiy, Multi-trait genome-wide and gene-based analyses implicate coagulation and vascular smooth-muscle pathways in spontaneous coronary artery dissection.

10h05-10h25: Huang Haibo, Genetic Correlations Between Asthma Subtypes and Neuropsychiatric Disorders.

10h25-10h45: Fritsch Humblet Barbara, ATM, medical ionising radiation and breast cancer risk in high-risk women without pathogenic variants in BRCA1 and BRCA2.

10h45-11h15 Coffee Break + Posters

11h15-11h35:Palmal Sagnik, Interactions with genetics in Alzheimer's disease.

11h35-11h55: Schramm Catherine, Estimation of Alzheimer disease risk curves as a function of age and genetic risk factors.

11h55-12h15: Foulon Sidonie, Fantasio: A Case-Control Approach To Detect Rare Recessive Variants In Multifactorial Diseases.

12h15-12h35: Herzig Anthony, Impact of study sample composition on supervised admixture modelling.

12h35-14h00 Lunch Break + Posters

Session 2: Bioinformatics and omics analysis 14h00-14h30: Keynote Speaker - Antonio Rausell

14h30-14h50: Asgari Yazdan, DNA Methylation and Breast Cancer Risk: An Epigenome-Wide Association Study within the French E3N-Generations Cohort.

14h50-15h10: Perrin Aglaé, Assessing the association between human genetic variation and SARS-CoV-2 viral dynamics.

15h10-15h40 Coffee Break + Posters

15h40-16h00: Chataigner Lucas, When Ancestry Matters: Visualizing and Profiling Missense Variants in Drug-Response Genes.

16h00-16h20: Paes Gabriela, Population-Specific Diversity of KIR2DS1 and KIR2DS4 Activating Receptors: Copy Number Variation and Allelic Patterns Across Global Ancestries.

16h20-16h40: Monlong Jean, Association tests in pangenome graphs with STOAT.

16h40-16h45 Conclusion

16h45-18h30 Cocktail, discussion & networking

Poster Presentations

- Abani Fatima-Zahra, Mise en place d'un pipeline d'analyse post-GWAS des variants de tous types à partir de génomes complets PacBio HiFi et application à la la maladie d'Alzheimer précoce.
- 2. Barzine Mitra, Fine-mapping of human leukocyte antigen alleles associated with French antiaquaporin-4 antibodies seropositive Neuromyelitis Optica Spectrum Disorder patients.
- 3. Brocard Simon, First genomic study of chronic lung allograft dysfunction discovers two novel associations.
- 4. Bugnon Agathe, Description of molecular interaction networks involved in humoral rejection of kidney allograft.
- 5. Conil Clément, A human YEATS4 variant confers resistance to TST and IGRA conversion despite Mycobacterium tuberculosis exposure.
- 6. De Walsche Annaïg, Multitrait GWAS to Enhance Signal Detection for a Single Target Trait
- 7. Dowding Julien, Genome-wide association study of IgG response to Ebola virus antigens in survivors of Ebola virus disease.
- 8. Durand Axelle, Characterization of genetic risk factors for proteinuria in children in the context of chronic kidney disease and recent African ancestry.
- 9. Gélin Morgane, Identification of genetic susceptibility to develop invasive pneumococcal disease in children by whole-exome sequencing.
- 10. Ghestem Florence, Knowledge graph to dissect genotype phenotype association
- 11. Le Borgne Julie, Gene-sex interaction GWAS for Alzheimer's Disease risk for StatGen 2025.
- 12. Park Seehyun, Large-scale association analysis identified new susceptibility risk loci for differentiated thyroid carcinoma by integrating the transcriptome and proteome.
- 13. Pluntz Matthieu, Generalized Viterbi algorithm for identifying the multiple most likely paths of hidden states in a HMM and application to detection of homozygosity by descent.
- 14. Martinez Jessica, Multi-trait analysis reveal new variants associated with cytokine levels in asthmatic families.
- 15. Mauduit Vincent, Genome-wide survival study identifies a novel non-HLA donor-recipient genetic mismatch associated with kidney allograft survival.
- 16. Morin Martin, PBMC mRNA/miRNA profiling identifies MMP9 as a putative non-invasive biomarker and therapeutic target in chronic kidney allograft rejection.
- 17. Orsi Laurent, Genes in the Interleukin-6-related pathways of asthma: A meta-analysis of four studies.
- 18. Rioux Bastien, Re-evaluating the association between TREX1 variants, lupus and oligoprotein interferon signatures.
- 19. Sugier Pierre-Emmanuel, Meta-Analysis models with group structure for pleiotropy detection at gene and variant level using summary statistics from multiple datasets.