



Environmental and **Agronomical** **Genomics Symposium**

February 18-20, 2026

CICSU Auditorium, 4 place Jussieu, Paris, France



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Wednesday February 18th

- 12:30 - 13:45** Welcoming participants, *foyer* (Lunch not included, welcoming tea/coffee only)
- 13:45 - 14:00** Introductory speech, **Organising committee**, CICSU Auditorium
Monitoring of ecosystems functioning and health / Eco exposome (chair: J.C. Simon)
- 14h00-14h30** Exposome-driven modulation of xenobiotic responses in the Asian tiger Mosquito *Aedes albopictus* through microbiota interactions, **Claire VALIENTE MORO**, *Claude Bernard University Lyon 1, Lyon, France*
- 14h30-14h50** Using environmental DNA to monitor gastrointestinal parasites in Northern Ireland sheep farms., **Emer MCCANN**, *Queen's School of Biological Sciences, Belfast, United Kingdom*
- 14h50-15h10** Metabarcoding and metagenomics of bat guano uncovers ecological processes and ecosystem health, **Orianne TOURNAYRE**, *Institut des Sciences de l'Evolution de Montpellier, France*
Ancient DNA and paleo-environments (chair: P. Wincker)
- 15h10-15h50** The conquest of the horse and the horse of conquest: tracking the genetic hoofprints of domestication and colonization, **Ludovic ORLANDO**, *Centre for Anthropobiology & Genomics of Toulouse (CAGT), Paul Sabatier University, France*
- 15h50-16h10** Tracing tropical plankton evolution over half a million years using sedimentary ancient DNA, **Sarah ROMAC**, *Station Biologique de Roscoff, Roscoff, France*
- 16h10-16h40** Coffee Break, *foyer*
Exploring diversity and evolution of Life 1/2 (chair: L. Bittner)
- 16h40-17h00** Ancyromonads provide a window into the early evolution of eukaryotic gene content, **Jazmin BLAZ**, *Laboratoire Ecologie Société Evolution, Université Paris-Saclay, Gif-sur-Yvette, France*
- 17h00-17h20** From Bacteria to eukaryotes and nucleomorphs: the prominent evolutionary journey of the DNA polymerase III, **Thibault ANTOINE**, *Genoscope, Evry, France*
- 17h20-17h40** Unveiling the Evolutionary Dynamics of the X Chromosome in Aphids, **Gaorui GONG**, *Institut de Génétique, Environnement et Protection des Plantes, INRAE Le Rheu, France*
- 17h40-18h00** Ecological adaptation to life in extreme environments is linked to structural genome evolution in cryptobiotic *Panagrolaimus* nematodes, **Nadège GUIGLIELMONI**, *Universität zu Köln, Germany*
- 18h00-18h40** Sequence locally, think globally: biodiversity genomics at scale, **Mark BLAXTER**, *Wellcome Trust Genome Campus, Hinxton, United Kingdom*

Thursday February 19th

08:00 - 08:30	Welcoming participants, <i>foyer</i> <i>Agrogenomics and diversity (chair : D.Milan)</i>
08h30-08h50	Pangenomes Enhance the Characterization of Genetic Bases of Agronomic Traits in Cultivated Grapevine, Baptiste PIERRE , AGAP, CIRAD, Montpellier, France
08h50-09h10	Unravelling genomic drivers of speciation in Musa through comparison of wild banana ancestor genomes, Guillaume MARTIN , CIRAD, Montpellier, France
09h10-09h30	Evolutionary Dynamics of Fall Armyworm Global Invasion, Kiwoong NAM , INRAE, Montpellier, France
09h30-10h00	The genomic footprints of wild Saccharum species trace domestication, diversification, and modern breeding of sugarcane, Angélique D'HONT , AGAP, CIRAD, Montpellier, France
10h00-11h00	Coffee Break/ Poster session (ODD NUMBERS) , <i>foyer</i>
11h00-11h30	Uncovering recessive lethal and female infertility disorders in cattle using large-scale genomic and phenotypic data, Aurélien CAPITAN , INRAE GABI, AgroParisTech, Jouy-en-Josas, France
11h30-11h50	Pangenome graphs construction in sheep and goats provides new insights into their genetic diversity, Valentin SORIN , INRAE GABI, AgroParisTech, Jouy-en-Josas, France <i>Epigenomics / Epiallelic Diversity (chair: D. Milan)</i>
11h50-12h10	Modelling genetic and epigenetic selection signatures from pool sequencing, Sonia EYNARD , INRAE Auzeville, France
12h10-12h30	A comprehensive genome-wide scan for parent-of-origin expressed genes in the pig clarifies the conservation landscape of genomic imprinting, Julie DEMARS , INRAE Auzeville, France
12h30-12h50	Transmission of DNA methylation : genetic or epigenetic ? A transgenerational case study in quails, Stacy ROUSSE , INRAE Auzeville, France
12h50-14h00	Lunch Break, <i>foyer</i> <i>Exploring diversity and evolution of Life 2/2 (chair: L. Bittner)</i>
14h00-14h30	Evolutionary consequences of unorthodox reproductive modes: Insights from stick insects, Tanja SCHWANDER , Department of Ecology and Evolution, University of Lausanne, Switzerland
14h30-14h50	Hidden diversity behind the deadliest mammalian wildlife disease: genomic and ecological evidence for two white-nose disease pathogens, Sébastien PUECHMAILLE , ISEM, Montpellier, France
14h50-15h10	Beyond nutrients: genomic diversity empowers cyanobacteria to bloom, Sébastien HALARY , CNRS-MNHN, Paris, France
15h10-15h30	Decoding low-light adaptation of the microalgae <i>Pelagomonas calceolata</i> , Chloé SEYMAN , Genoscope, Evry, France
15h30-16h00	Discovery of environmental yeast hybrids with pathogenic potential: evolutionary and clinical implications, Toni GABALDON , Barcelona Supercomputing Centre (BSC), Spain
16h00-16h30	Coffee Break, <i>foyer</i> <i>Genomics of biological interactions : holobionts, pathogens, symbionts (chair: E. Pelletier)</i>
16h30-17h00	A Global Perspective on Coral Holobiont Biocomplexity and Climate Resilience, Christian VOOLSTRA , Department of Biology, University of Konstanz, Germany
17h00-17h20	Integrative approaches to assess mitochondrial DNA copy number as a biomarker of coral health, Marine POULLET , Université Côte d'Azur, Nice, France
17h20-17h40	Dynamics of adaptation and genome evolution in fungal populations, Fabrice NTAKIRUTIMANA , UR BIOGER, Université Paris-Saclay, INRAE, Palaiseau, France

- 17h40-18h00** piRNA pathway in the parasitoid wasp *Cotesia congregata* and impact on its endogenous bracovirus, **Jean-Michel DREZEN**, *Institut de recherche sur la biologie de l'insecte, Université de Tours, France*
- 18h00-20h30** Cocktail party, Zamanski tower (only for the 1st 150 registered delegates, check your badge)

Friday February 20th

- 08:00 - 08:30** Welcoming participants, *main hall*
Pangenome and structural variants (chair: E. Pelletier)
- 08h30-08h50** Evolution of structural variants in *C. elegans*, **Héloïse MULLER**, *IBENS, Paris, France*
- 08h50-09h10** Wolbachia metapangenomics of individual *Culex* mosquitoes reveal shared phage rearrangements across large geographic distances, **Maxime MAHOUT**, *IRD, Montpellier, France*
- 09h10-09h30** Pangenomics in cattle : from structural variant discovery to association studies on key phenotypes, **Mekki BOUSSAHA**, *INRAE GABI, AgroParisTech, Jouy-en-Josas, France*
- 09h30-10h00** Tools and methods for microbial pangenomics, **Alexandra CALTEAU**, *LABGeM, Genoscope, Evry, France*
- 10h00-11h00** Coffee Break/**Poster session (EVEN NUMBERS)**, *foyer*
Exploring ecosystems using metagenomics (chair: P. Wincker)
- 11h00-11h30** Le French Gut: mapping the intestinal microbiota on a large scale, issues and challenges, **Mathieu ALMEIDA**, *INRAE MetaGenoPolis, Jouy-en-Josas, France*
- 11h30-11h50** Discovering Environmental Genomic Diversity at Unprecedented Scale: New Tools for the Logan Dataset, **Roland FAURE**, *IRISA, Rennes, France*
- 11h50-12h10** Country-scale study of antimicrobial resistance in French soils by metagenomics, **Domitille JARRIGE**, *Agroécologie, INRAE, Dijon, France*
- 12h10-12h30** Metagenomics of soil aggregates: are microaggregates hotspots for bacterial diversity generation in soils?, **Marie-Ange PALOMARES**, *BIAM, CEA, St Paul les Durance, France*
- 12h30-12h50** The impact of land-use change on groundwater communities in Switzerland using eDNA metabarcoding, **Marjorie COUTON**, *Swiss Federal Institute of Aquatic Science and Technology, Department of Aquatic Ecology, Switzerland*
- 12h50-14h10** Lunch Break, *foyer*
- 14h10-14h30** The viral counter-defensome, **Pedro OLIVEIRA**, *Genoscope, Evry, France*
- 14h30-14h50** Host ecology and phylogeny shape the temporal dynamics of social bee viromes, **Vincent DOUBLET**, *Diversité, Génomes & Interactions Microorganismes - Insectes, INRAE, Montpellier, France*
- 14h50-15h10** Ecology and evolution of traits in natural populations: meta-omics as an opportunity to study trophic strategies in planktonic ecosystems, **Lucie BITTNER**, *Institut de Systématique, Evolution, Biodiversité, Muséum national d'histoire naturelle, Paris, France*
- 15h10-15h30** Spatial metatranscriptomics on the brown alga *Saccharina latissima*, **Pavla DEBELJAK**, *Institut de Systématique, Evolution, Biodiversité, Muséum national d'histoire naturelle, Paris, France*
- 15h30-15h50** More than just disorder - metabolite diversity of *Microcystis* strains shows tight correspondence to genotype and may contribute to ecotype specificities, **Benjamin MARIE**, *Muséum national d'histoire naturelle, Paris, France*
- 15h50** Conclusions Greenomics and FG