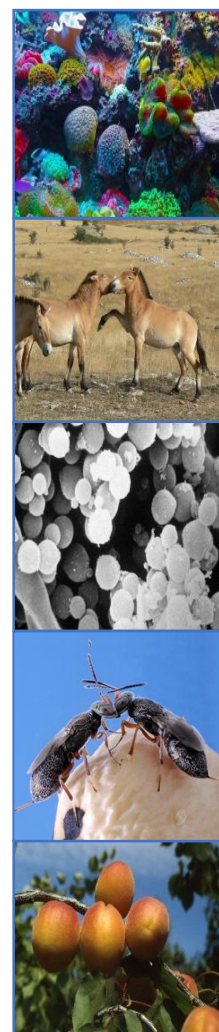


Environmental And Agronomical Genomics Symposium

27th -29th October 2021
Tours (France)



Programme



Wednesday, October 27 th	
08h30	Registration
09h30	Introduction Patrick Wincker , France Génomique Jean-Christophe Simon , GDR Génomique Environnementale David Giron , IRBI
Genomics of plants and animals and their microbiota Chair: Jean-Christophe Simon	
09h40	Keynote Y. Guiguen “Diversity and evolution of genetic sex determination in fish”
10h25	R. Pienaar “First evidence of long-lasting association between viruses and the Black soldier fly, <i>Hermetia illucens</i> ”
10h45	M. Biget “Intra-annual shifts and deterministic assembly of root endospheric microbial communities of the grapevines”
11h05	C. Paillard “Recent advances in bivalve-microbiota interactions for disease prevention in aquaculture”
11h25-11h45 Coffee Break (Barnum)	
Exploring diversity and evolution of Life Chair: Patrick Wincker	
11h45	Featured speaker H. Morlon “Macroecology and macroevolution of the oceanic plankton”
12h15	G. Marec “Microbial community assembly in a mosaic of marine lichens”
12h35	F. Denoeud “High-quality genome assemblies of corals highlight the specifics of their long lifespan”
12h55	C. Martin “Metabarcoding body remains sieved from tree hollow wood mould to characterize forest insects”
13h15-14h25 Lunch Break (Barnum)	
Exploring ecosystems using metagenomics Chair: Sophie Arnaud Haond	
14h25	Featured speaker P. Galand “Coral associated microorganisms from communities to genomes”
14h55	C. Delbès “MetaPDOcheese : Nature and role of biotic drivers of microbial communities in traditional cheeses”
15h15	L. Paoli “Uncharted biosynthetic potential of the ocean microbiome”
15h35	C. Djemiel “Biogeographical patterns and determinism of soil fungal alpha-diversity in France”
15h55	P. Debeljak “Carbon Fixing Unknowns: Exploring small green algae `dark matter”
16h15-16h35 Coffee Break (Barnum)	
Exploring diversity and evolution of Life Chair: Hélène Morlon	
16h35	Featured speaker S. Duharcourt “Massive invasion of genes by selfish genetic elements in <i>Paramecium</i> germline genomes”
17h05	E. Gadoin “Fishing for the microbiome of tropical tuna”
17h35	L. Reynes “Genomic signatures of clonality in the deep water kelp <i>Laminaria rodriguezii</i> ”
17h55	Featured speaker A. Kremer “Genome-wide evolutionary responses of European oaks since the Little Ice Age”
18h25	Posters presentation

Thursday, October 28 th	
Genomics of biological interactions : holobionts, pathogens, symbionts	
Chair: Jean-Michel Drezen	
09h00	Keynote E. Huguet “Genomics of endogenous symbiotic viruses in parasitoid wasp-insect host interactions”
09h45	E. Armstrong “Disentangling the effects of genotype, environment, and symbiotype on coral holobiont gene expression across the Pacific”
10h05	H. Muller “Genome-wide patterns of bracovirus chromosomal integration into multiple host tissues during parasitism”
10h25	F. Dedeine “Vertical transmission of the gut microbiota in termites: evidence from a host-population based approach”
10h45	B. Guinet “Endogenization of dsDNA viruses as a widespread source of adaptation in endoparasitoid species”
11h05-11h25 Coffee Break (Barnum)	
Genomics of plants and animals and their microbiota	
Chair: Denis Milan	
11h25	Featured speaker V. Decroocq “Following the Adaptive Path of Apricot Domestication using Population Genomics”
11h55	A. d'Hont “Mosaic genomes of bananas”
12h15	M. Rousseau-Gueutin “New ways to improve the narrow genetic diversity of the polyploid crop <i>Brassica napus</i> (oilseed rape)”
12h35	M. Merle “Genome dynamics in <i>Rhodnius</i> species, vectors of Chagas disease”
12h55-14h05 Lunch Break (Barnum)	
Exploring diversity and evolution of life	
Chair: Antoine Kremer	
14h05	Featured speaker M. Joron “The dual role of recombination suppression in the formation of inversion polymorphisms”
14h25	H. Schneemann “What can we learn from genome scans about the genetic basis of hybrid fitness?”
14h45	G. Koutsovoulos “The root-knot nematode <i>Meloidogyne incognita</i> shows surprising adaptability despite clonal reproduction and low variation at the genome level”
15h05	H. Roest Crollius “The European Reference Genome Atlas, 200.000 genomes to revolutionise biology”
15h25-15h45 Coffee Break (Barnum)	
Technological advances: producing and analyzing genomic data	
Chair: Patrick Wincker	
15h45	Keynote S. Le Crom “10 years of data evolution in genomics”
16h30	J-M. Aury “De novo Sequencing and Assembly of Complex Genomes”
16h50	C. Klopp “De novo assembly of complex genomes, comparing long read sequencing technologies and data processing strategies”
17h10	A. Tourancheau “Discovering multiple types of DNA methylation from bacteria and microbiome using nanopore sequencing”
17h30	Round table
18h15	Posters presentation

Friday, October 29th

Ancient DNA and paleo-environments

Chair: Christine Paillard

9h30	Keynote L. Orlando “Tracking the genomic homeland of horse domestication”
10h15	D. Diquelou “Thousands of years of human-dog relationships: uncovering adaptation to dietary changes of dogs, resulting from the transition to farming”
10h35	J. Salse “Paleogenomics: reconstruction of plant evolutionary trajectories from modern and ancient DNA”
10h55	S. Rigou “Ancient Giant viruses discovered through permafrost metagenomics”
11h15	N. Martin “Impacts of agro-pastoral societies on biodiversity: palaeogenomic, palaeoecological and archaeological approaches”

11h15-11h35 Coffee Break (Barnum)

Monitoring of ecosystems functioning and health

Chair: Stéphane Boyer

11h35	Featured speaker S. Alizon “Results on longitudinal follow-ups of vaginal microbiota in young women in the PAPCLEAR study!”
12h05	M. Querejeta Coma “Wild bee's pollination in sunflower crops: Who, which and why”
12h25	S. Planes “Revisiting monitoring of biodiversity of coral reefs using metabarcoding and eDNA”
12h45	L. Sire “DNA metabarcoding of passive trap collection media for forest insect biomonitoring”

13h05-14h15 Lunch Break (Barnum)

Exploring ecosystems using metagenomics

Chair: Denis Faure

14h15	Featured speaker S. Arnaud Haond “eDNAbyss: A DNA-based exploration of the largest biome on Earth”
14h45	P. Frémont “Restructuring of genomic provinces of surface ocean plankton under climate change”
15h05	I. Rizos “Tales from the unknown: expanding our idea of taxonomic protist diversity”
15h25	P. H. Oliveira “The anti-phage defensome of TARA Oceans microbial metagenomes”
15h45	L. Dumond “Exploring the lignocellulolytic potential of aerobic and anaerobic microbial consortia derived from termite gut microbiome”

16h05	Closing speech of the symposium
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16h25	End of the symposium
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We gratefully acknowledge the financial contribution of

