PROGRAM

BORDEAUX, 6TH, 7TH & 8TH DECEMBER 2021

Université de Bordeaux - Campus Victoire
Amphi Sigalas (Building C - 2nd Floor)
3ter Place de la Victoire, 33000 Bordeaux
Tram B stop «Victoire»













Plenary Speakers



Carlo Maley is a biologist who specializes in cancer, evolution and computational biology. He works at the intersection of these fields. Carlo Maley is Associate Professor at Arizona State University. Professor Maley and his research team apply evolutionary and ecological theory to three problems in cancer. His team uses genomic data mining, phylogenetics, computational modeling and wet lab techniques to solve these problems. His team focuses on developing better methods to prevent cancer and improve cancer management.



Andrew Ewald is Professor and Director of Cell Biology and Co-Leader of the Cancer Invasion and Metastasis Program, Sidney Kimmel Comprehensive Cancer Center at at Johns Hopkins School of Medicine.

His research interests are cellular and molecular mechanisms of epithelial growth, invasion and metastasis. His team focuses on how clusters of cancer cells disseminate from the tumor, traverse the systemic circulation, and cooperate with resident stromal cells to colonize distant organs.



Eric Solary, MD, Full Professor in Haematology at Paris-Saclay University. He is teaching clinical and biological haematology as well as cell biology.

His research has been dedicated initially to leukemic cell resistance to cytotoxic drugs, then to cell death mechanisms and the link between cell death and differentiation in the haematopoietic system. His current research is focused on monocyte differentiation, monocyte role in disease pathogenesis and chronic myeloid malignancies, with a focus on chronic myelomonocytic leukemia.



Anya Plutynski is a historian and philosopher of biology and medicine. She is Associate Professor of Philosophy at Washington University. Her most recent book is Explaining Cancer: Finding Order in Disorder (2018, OUP). She has also written on the history and philosophy of evolutionary biology and genetics, the role of modeling in science, and scientific explanation.

Her current research is on the history of the cancer genome atlas project (TCGA) and the development of precision oncology. Other research interests include biomedical research ethics, particularly issues surrounding precision oncology, cancer genomics, and risk communication.



Nicholas McGranahan is the leader of the Cancer Genome Evolution Research Group, at the

University College London Cancer Institute.

His lab focuses on using computational methods to explore the cancer genome and anti-tumour immunity within an evolutionary framework..



Maria Blasco is director of the Spanish National Cancer Research Centre (CNIO) and Head of the Telomeres and Telomerase Group (CNIO). She is a molecular biologist whose work focuses on telomeres and telomerase and their role in cancer and aging. She contributed to identify the mammalian telomerase genes and generated the first mice without telomerase. These mice were instrumental to demonstrate that short telomeres are sufficient to induce aging. Her group also demonstrated that it is possible to delay aging and age-related diseases by activating the telomerase enzyme.

Day 1 - 6th December 2021

10H15 - 10H45	Welcome breakfast (Hall Leyteire)		
10H45 – 11H	Welcome and introduction to the meeting F. Gross, L. Laplane, M. Lemoine & T. Pradeu		
11H - 12H	Plenary: Carlo Maley Arizona State University, USA	What is cancer? A view across the tree of life	
12H - 12H40	Mathieu Giraudeau LIENSs, CNRS & Univ. La Rochelle, FR	Wildlife species as a source of inspiration in our fight against cancer?	
12H40 - 14H10	Lunch: Buffet open to all (Hall Leyteire)		
14H10 - 15H10	Plenary: Andrew Ewald Johns Hopkins, USA	Unraveling the logic of cancer through analysis of cellular and molecular dynamics	
15H10 – 15H50	Isabelle Sagot CNRS & IBGC, FR	On a definition of cellular quiescence	
15H50 - 16H2O	Coffee Break (Hall Leyteire)		
16H2O - 17H	Matthieu Duchmann The Puissant Lab, INSERM , FR	Parallel evolution of signaling mutations in Core-binding factor acute myeloid leukemia	
17H – 17H40	Lucie Laplane IHPST, CNRS & Univ. Panthéon-Sorbonne, FR	Revisiting the clonal evolution model	
17H40 – 18H2O	Thomas Pradeu ImmunoConcept, CNRS, Univ. Bordeaux, FR	Reconceptualizing the interactions between the immune system and cancer	

19H00	Wine & Cheese (open to all)	If you plan to attend this friendly event,
	Aux Quatre coins du vin	please let us know by the 30th of November,
	8 rue de la Devise, 33000 Bordeaux	so we can make the reservation accordingly
	15 minutes walk from the conference place	(corinne.luijten@u-bordeaux.fr).

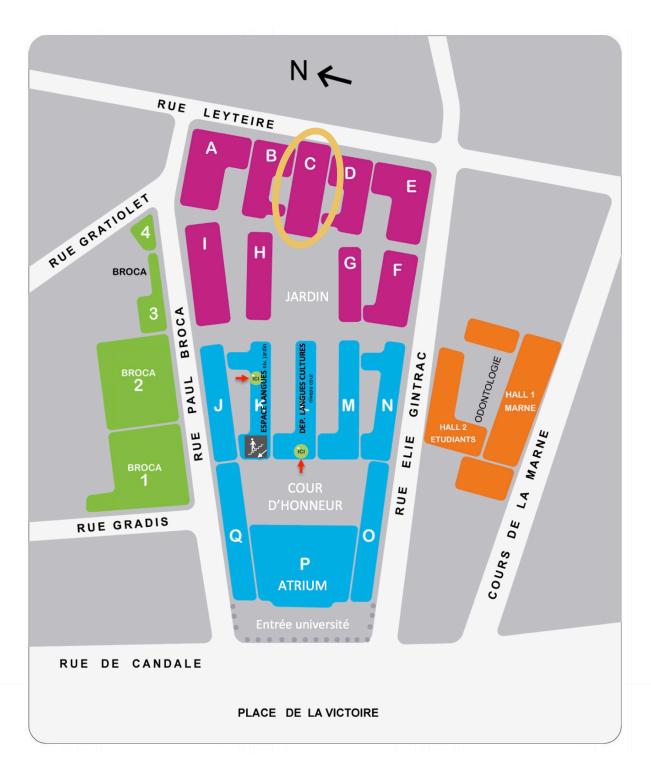
Day 2 - 7th December 2021

9H30 - 10H10	Jean Feunteun Gustave Roussy, Univ. Paris-Saclay, FR	Tumor cell malignancy: a complex trait built through recip-rocal interactions between tumor cells and tissue-body system
10H10 – 11H10	Plenary: Eric Solary Gustave Roussy, Villejuif, FR	What is the roadmap of early tumor development?
11H10 - 11H40	Coffee Break (Hall Leyteire)	
11H40 - 12H2O	Benjamin Chin-Yee Western University, Canada	Minimal Residual Disease: Premises Before Promises
12H20 - 14H	Lunch: Buffet open to all (Hall Leyt	eire)
14H – 14H4O	Jonathan Sholl ImmunoConcept, CNRS, Univ. Bordeaux, FR	Learning from the intersection of cancer metabolism and nutrient regulation
14H40 - 15H20	Rodrigue Rossignol INSERM & Univ. Bordeaux, FR	Mitochondria in cancer: a malignant symbiosis?
15H20 - 15H50	Coffee Break (Hall Leyteire)	
15H50 – 16H50	Plenary: Anya Plutynski Washington University, USA	Whither Philosophy of Cancer? Four Open Questions [via Zoom]
16H50 – 17H30	Fridolin Gross ImmunoConcept, CNRS, Univ. Bordeaux, FR	Cancer and Complexity
17H30 - 18H10	Bernhard Strauss Univ. Cambridge, UK	"Rethinking Cancer" – when are we done? How conceptual progress in explaining cancer might inform research practice and novel treatment approaches

Day 3 - 8th December 2021

9H30 - 10H30	Plenary: Nicholas McGranahan Univ. College London, UK	Exploring Cancer Evolution and Immune Escape [via Zoom]
10H30 - 11H	Coffee Break (Hall Leyteire)	
11H – 11H4O	Nicholas Binney Univ. of Exeter, UK	Liquid Biopsy, Multi-Cancer Diagnosis and the Evaluation of Medical Tests
11H40 - 12H2O	Bertrand Daignan-Fornier IBGC, CNRS & Univ. Bordeaux, FR	Cancer and multicellularity: general ideas and an experimental approach
12H30 – 14H	Lunch: Buffet open to all (Hall Leyteire)	
14H – 15H	Plenary: Maria Blasco Centro Nacional de Investigaciones Oncológicas, Madrid, Spain	Telomerase, cancer, aging [via Zoom]
15H – 15H40	Simon Okholm ImmunoConcept, CNRS, Univ. Bordeaux, FR	Rapamycin: an anti-aging treatment or cancer suppression?
15H40 – 16H2O	Maël Lemoine ImmunoConcept, CNRS, Univ. Bordeaux, FR	What does it mean to say that 'aging causes cancer'?
16H20 - 16H35	Conclusions F. Gross , L. Laplane , M. Lemoine & T. Pradeu	

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