JACQUES SERIZAY

js2264@cam.ac.uk | +33 6 99 09 59 47 | js2264.github.io/

Churchill College, University of Cambridge, UK

Current position

PhD student – University of Cambridge (UK)
Thesis: **Tissue-specific chromatin organization in *C. elegans***

Julie Ahringer lab – Gurdon Institute / Department of Genetics

Educational background

Master's degree in Genetics – Ecole Normale Superieure de Paris-Saclay
Partnership with Paris Diderot (Paris VII) and with the Pasteur Institute

Graduated with highest honors.
Rank: 2/25. Grade: 16.75/20
First (UK) / *summa cum laude* (USA)

Bachelor's degree in Biology and Health – Ecole Normale Superieure de Paris-Saclay
Partnership with Paris Sud Orsay

Research experience

2016
6 months

Raphael Margueron Lab
Institut Curie, France
Project: *Functional role of BAP1 in transcription activation.*C

Expertise: ChIP-seq, SILAC & Mass spectrometry, Bioinformatics analysis, mammalian cell culture

2014 – 2015
10 months

Kathrin Plath Lab
Department of Biological Chemistry, University of California Los Angeles, USA
Project: *Xist 5'-located repeats and their role in Xist cloud formation* (personal project); *Importance of Xist repeats and their interacting proteins for the initiation of X Chromosome Inactivation* (shared project).

Expertise: Bioinformatics analysis, Optimization of RNA Antisense Purification (RAP-seq) and Nascent-RNA sequencing, DNA/RNA-FISH, design of RNA Interaction Assay, mammalian cell culture.

2014
2 months

Maite Huarte Lab
Center for Applied Medical Research – University of Navarra, Spain
Project: *Long intergenic non-coding RNA frequently amplified or deleted in cancerous cells play a role in cancer phenotypes.*

Expertise: Bioinformatics analysis, RT-qPCR, cancerous cell culture.

2013
2 months

Edith Heard Lab
Institut Curie, France
Project: *Study of random monoallelic expression of autosomal genes.*

Entrepreneurial experience

2018 – 2019 5 months	**EntrepriseTECH PhD+ programme** **Cambridge Judge Business School – University of Cambridge, UK** Project: Distributed ledger for genomic data (Leader)

Awards & funding

2018	Winner of the Genomics Hackathon **>sudo: sequence** ("Wildtype Challenge"). Conceptualized and designed a platform to integrate patient's genomic data in diagnostic process by non-expert clinicians.
2016	Medical Research Council Doctoral Training Grant School of Biological Sciences PhD funding (3 ½ years) Sackler Fund PhD funding (3 years) Diploma of the Ecole Normale Superieure de Paris-Saclay
2015	Diploma of the Pasteur Institute for the course 'Genome Analyses'
2012	Ecole Normale Superieure de Cachan: 4-year studentship funding (2012-2016)

Qualifications

Basic informatics	Bash programming (advanced) R language and Shiny applications (advanced) Python (intermediate) HTML and web server design (intermediate) Adobe Creative Suite (advanced) Microsoft Office Suite (advanced) Latex (intermediate)
Bio-informatics	Genome-wide sequencing (RNA/ATAC/ChIP/others) analysis Mapping/analysis pipeline automation *In silico* advanced investigation of large sets of high-throughput sequencing data Machine Learning algorithms for classification problems
English French Spanish	Fluent (TOEIC 2014: 955/990, TOEFL 2016: 110/120) Native language Intermediate

Other interests

Miscellaneous classes	Plant Biology (University Paris Sud Orsay) Geology (Ecole Normale Superieure de Paris-Saclay) Oceanography (University Pierre et Marie Curie, Paris)
Active member of associations	Churchill College of University of Cambridge Cambridge University Hill Walking Association Cambridge University Underwater Exploration Group

Scientific communication

Peer-reviewed publications	In preparation:	**The analysis of copy number alterations from a lncRNA perspective reveals a mediator of NSCLC immune evasion**, Alejandro Athie, Jovanna González, Teresa Lozano, Ivan Raimondi, Oskar Marin-Bejar, Jacques Serizay, Dannys Martínez, Juan Sandoval, Luis Montuenga, Chandrasekhar Kanduri, Juan José Lasarte, Maite Huarte
	In review	**A phase-separated multi-molecular assembly formed by Xist, PTBP1, MATR3, CELF1 and TDP-43 is essential for Xist localization and gene silencing during X-inactivation**, Amy Pandya-Jones, Yolanda Markaki, Jacques Serizay, Tsotne Chitiashvili, Walter Mancia, Andrey Damianov, Costantinos Chronis, Bernadett Papp, Chun-Kan Chen, Robin McKee, Anthony Chau, Heinrich Leonardt, Sika Zheng, Mitchell Guttman, Douglas L. Black, and Kathrin Plath, ***Science***
	2018	**Genome organization at different scales: nature, formation and function**, Jacques Serizay and Julie Ahringer, ***Current Opinion in Cell Biology*** (DOI: 10.1016/j.ceb.2018.03.009)
		Chromatin accessibility dynamics across C. elegans development and ageing, Jurgen Janes§, Yan Dong§, Michael Schoof*, Jacques Serizay*, Alex Appert, Chiara Cerrato, Carson Woodbury, Ron Chen, Carolina Gemma, Ni Huang, Djem Kissiov, Przemyslaw Stempor, Annette Steward, Eva Zeiser, Sascha Sauer, Julie Ahringer, ***Elife*** (DOI: 10.7554/eLife.37344)
Scientific communication	2019:	Evolution, Structure and Function of Chromosomes High Order Structure [Pasteur Institute] (Poster) International *C. elegans* Conference [UCLA] (Talk) **(Selected)** Mechanisms of Eukaryotic Transcription [Cold Spring Harbor] (Poster)
	2018:	Research in Genetics Conference [Cambridge] (Poster)
	2017:	sciLife / LMB Bioscience Symposium [Cambridge University, UK] (Poster) International *C. elegans* Conference [UCLA] (Poster) Conference on Everything – Churchill College [Cambridge University, UK] (Poster) **(Selected)** Shell Research Prize [Cambridge University, UK] (Poster) **(Selected)**
Teaching & supervisions		1A Biology of the Cells class (University of Cambridge, UK) BTEC Higher National Diploma, Biotechnology (Gif s/ Yvette, France) Supervision of master students (4~6 months lab internships) Student supervision (Sixth form students, first year undergraduates)
Outreach		Scientists' Collaborative Project with Educators (SCoPE) - 2019

Scientific references

Julie Ahringer	ja219@cam.ac.uk
Raphael Margueron	raphael.margueron@curie.fr
Kathrin Plath	kplath@mednet.ucla.edu
Maite Huarte	maitehuarte@unav.es
Edith Heard	edith.heard@curie.fr