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Education

2012 – now	McGill University, Montreal, Canada. PhD in the Human Genetics Department in Guillaume Bourque's Lab.
2010 – 2011	Universitat Politècnica de Catalunya, Barcelona, Spain. Master in Statistic and Operations Research as an exchange student in the Faculty of Mathematics and Statistics.
2008 - 2010	Ensimag, Grenoble, France. Computer Science and Mathematics course with specialization in Bioinformatics.
2006 – 2008	Lycée Michel Montaigne, Bordeaux, France. Preparatory classes for entrance to the Grandes Écoles. Mathematics and Physics.

Professional Experiences and Projects

Center for Genomic Medicine, Kyoto, Japan. As part of an exchange program, I visited Dr. Matsuda's group and helped analyzing their ongoing sequencing projects to characterize Japanese genomes.
Genomics England, London, UK. Visiting the bioinformatics team lead by Dr. Rendon, I contributed to the curation of structural variant calls for their genome analysis pipeline.
Bourque lab, McGill Genome Centre, Montreal, Canada. PhD project. Implementation of a CNV detection method for whole-genome sequencing that can deal with repeat-rich regions. Application to large cohorts of normal and disease genomes.
CENTER FOR GENOMIC REGULATION(CRG), Barcelona, Spain. Graduation project in Roderic Guigó's group. Comparison of splicing activity and detection of splicing QTLs from RNA-Seq experiments. Participation in the Geuvadis and GTEx projects.
Universitat Politècnica de Catalunya, Barcelona, Spain. Study of the regularization of the generalized canonical correlation analysis. Neomades (Mobile software development), Bidart, France. Implementation of a Java module of their principal product. Ensimag, Grenoble, France. Breast cancer modelization and Bayesian estimation of the overdiagnosis rate. Collaboration with La Tronche's hospital (Grenoble).

Scholarships and Awards

2017	Student Exchange Support Program. JASSO, Japan.
2017	Graduate Mobility Award. Graduate and Postdoctoral Studies, McGill University.
2017	Oral Presentation, Honorable Mention. Human Genetics Dept's Research Day, McGill University.
2015 & 2017	Excellence award. Human Genetics Dept, McGill University.
2013-2016	Graduate Research Enhancement and Travel Award funding attendance to five international conferences. Human Genetics Dept, McGill University.
2014	Best oral presentation. Human Genetics Dept's Research Day, McGill University.

Selected Publications

2017	J Monlong, SL Girard, C Meloche, M Cadieux-dion, DM Andrade, RG Lafreniere, M Gravel, D Spiegelman, C Boelman, F Hamdan, JL Michaud, G Rouleau, BA Minassian, G Bourque, and P Cossette. Genome-wide characterization of copy number variants in epilepsy patients. <i>bioRxiv</i> . M Arseneault*, J Monlong*, and et al. Loss of chromosome Y leads to down
2011	regulation of KDM5D and KDM6C epigenetic modifiers in clear cell renal cell carcinoma. Scientific Reports.
2015	J Monlong , C Meloche, G Rouleau, P Cossette, SL Girard, and G Bourque. Human copy number variants are enriched in regions of low-mappability. <i>bioRxiv</i> .
2015	M Melé, P G Ferreira, F Reverter, D S DeLuca, J Monlong , M Sammeth, et al., and The GTEx Consortium. The human transcriptome across tissues and individuals. <i>Science</i> .
2015	The GTEx Consortium . The Genotype-Tissue Expression (GTEx) pilot analysis: Multitissue gene regulation in humans. <i>Science</i> .
2015	D D Pervouchine, S Djebali, A Breschi, C A Davis, P P Barja, A Dobin, A Tanzer, J Lagarde, C Zaleski, L See, M Fastuca, J Drenkow, H Wang, G Bussotti, B Pei, S Balasubramanian, J Monlong , and et al. Enhanced transcriptome maps from multiple mouse tissues reveal evolutionary constraint in gene expression. <i>Nature Communications</i> .
2014	J Monlong , M Calvo, P G Ferreira, and R Guigó. Identification of genetic variants associated with alternative splicing using sQTLseekeR. <i>Nature Communications</i> .
2014	P G Ferreira, P Jares, D Rico, G Gomez-Lopez, A Martinez-Trillos, N Villamor, S Ecker, A Gonzalez-Perez, D G Knowles, J Monlong , and et al. Transcriptome characterization by rna sequencing identifies a major molecular and clinical subdivision in chronic lymphocytic leukemia. <i>Genome research</i> .
2013	T Lappalainen, M Sammeth*, M R Friedlander*, P A t Hoen*, J Monlong* , M A Rivas*, and et al. Transcriptome and genome sequencing uncovers functional variation in humans. <i>Nature</i> .
2011	A. Seigneurin, O. Francois, J. Labarere, P. Oudeville, J. Monlong , and M. Colonna. Overdiagnosis from non-progressive cancer detected by screening mammography: stochastic simulation study with calibration to population based registry data. <i>BMJ</i> .

Other Publications as part of the Geuvadis and GTEx consortia $\,$

2017	Ashis Saha, et al., and The GTEx Consortium . Co-expression networks reveal the tissue-specific regulation of transcription and splicing. <i>Genome research</i> .
2017	Fan Yang, et al., and The GTEx Consortium . Identifying cis-mediators for trans-eQTLs across many human tissues using genomic mediation analysis. <i>Genome research</i> .
2017	Xin Li, et al., and The GTEx Consortium . The impact of rare variation on gene expression across tissues. <i>Nature</i> .
2017	Meng How Tan, et al., and The GTEx Consortium . Dynamic landscape and regulation of RNA editing in mammals. <i>Nature</i> .
2017	Taru Tukiainen, et al., and The GTEx Consortium . Landscape of X chromosome inactivation across human tissues. <i>Nature</i> .

2014	L Greger, J Su, J Rung, P G Ferreira, The Geuvadis consortium, T Lap-
	palainen, E T Dermitzakis, and A Brazma. Tandem RNA chimeras contribute
	to transcriptome diversity in human population and are associated with intronic
	genetic variants. PloS one.
2013	P C t Hoen, et al., and The Geuvadis Consortium. Reproducibility of high-
	throughput mRNA and small RNA sequencing across laboratories. Nature biotech-
	nology.
2013	GTEx Consortium. The Genotype-Tissue Expression (GTEx) project. Nat
	Genet.

Selected Scientific Presentations

2017	QUEBEC, CANADA, Quebec. Oral presentation, 6th Annual Canadian Human and Statistical Genetics Meeting.
2016	Japan, Kyoto. Oral presentation, 13th International Congress of Human Genetics.
2015	BC, Canada, Vancouver. Oral presentation, 4rd Annual Canadian Human and Statistical Genetics Meeting.
2014	UK, Cambridge. Oral presentation, <i>Genome Informatics</i> conference.

Other Scientific Presentations

2017	QUEBEC, CANADA, Montreal. Oral presentation, Human Genetics Dept. Research Day.
2016	Spain, Barcelona. Poster presentation, European Society of Human Genetics conference. Best Poster Award candidate.
2015	Scotland, Glasgow. Poster presentation, European Society of Human Genetics conference.
2014	QUEBEC, CANADA, Montreal. Oral presentation, Human Genetics Dept. Research Day.
2014	British Columbia, Canada, Victoria. Poster presentation at the 3rd Annual Canadian Human and Statistical Genetics Meeting.
2014	New Mexico, USA, Santa Fe. Poster presentation at the <i>Mobile Genetic Elements and Genome Evolution</i> Keystone conference.
2013	QUEBEC, CANADA, Esterel. Poster presentation at the 2nd Annual Canadian Human and Statistical Genetics Meeting.
2013	Montana, USA, Big Sky. Poster presentation at the <i>Mobile DNA in Mammalian Genomes</i> FASEB conference.
2011	Spain, Barcelona. Poster presentation at the XIIIth Spanish Biometry Conference and 3rd Ibero-American Biometry Meeting.

Other Activities

2013-2017 MCGILL UNIVERSITY.
 Organizer and instructor of seven full-day Introduction to R and Bioinformatics workshops for Human Genetics graduate students.
 2014-2017 MCGILL UNIVERSITY.
 VP Communications at the Human Genetics Student Society.
 2017 UNIVERSITÉ DE MONTREAL.
 Participated to a Bio-Hackaton. Our 24h project was to detect extending filaments from 3D cell imaging.

2017 IRCM, MONTREAL.

Gave a short seminar about the Gviz package at the Montreal Bioinformatics User Group.

2016 KYOTO, JAPAN.

Instructor at the 4th Kyoto Course and Symposium on Bioinformatics for Next Generation Sequencing with Applications in Human Genetics.

2015 Université de Montreal.

Participated to a Bio-Hackaton. Our 24h project was to develop interactive visualization of gene expression in cancer samples.

2014 McGill University.

 ${\it Teaching Assistant for the $Advanced Statistical Concepts in Genetic and Genomic}$

Analysis course.

2014 McGill University.

Organizer of a four-days R and Bioinformatics workshop for System Biology grad-

uate students.