# Olivier Saulnier, Ph.D

Postdoctoral Fellow olivier.saulnier@sickkids.ca

Developmental & Stem Cell Biology
The Hospital for Sick Children

### **EDUCATION**

Ph.D - Paris-Diderot University, Oncology M.Sc - Paris-Diderot University, Bioinformatics B.Sc - National School of Chemistry, Physics and Biology (ENCPB), Genomics A.Sc - National School of Chemistry, Physics and Biology (ENCPB), Biotechnology	2015 - 2018 2013 - 2015 2012 - 2013 2010 - 2012
RESEARCH AND PROFESSIONAL EXPERIENCE	
Postdoctoral Fellow Advisor: Michael D. Taylor, The Hospital for Sick Children, Developmental & Stem Cell Biology	2019-
Graduate Research Fellow Advisor: Olivier Delattre, Curie Institute, Diversity and Plasticity of Childhood Tumors Advisor: Martin Dutertre, Curie Institute, RNA Biology, Signaling and Cancer	2015-2018
Research Interns  Advisors: Olivier Delattre & Franck Tirode, Curie Institute, Diversity and Plasticity of Childhood Tumors	2011-2015
Advisor: Richard Houlston, The Institute of Cancer Research (ICR), Molecular and Population Genetics	
Advisors: Jean-Yves Delattre & Marc Sanson & Ahmed Idbaih, Brain and Spinal Cord Institute (ICM), Experimental Neuro-Oncology	
Advisor: Philippe Mora, Creteil University, Institute of Ecology and Environmental Sciences	
Advisor: Anne Pando, Research Institute for Development (IRD), Institute of Ecology and Environmental Sciences	

#### **PUBLICATIONS**

Labussière M, Boisselier B, Mokhtari K, Di Stefano AL, Rahimian A, Rossetto M, Ciccarino P, <u>Saulnier O</u>, Paterra R, Marie Y, Finocchiaro G, Sanson M. <u>Combined analysis of TERT, EGFR, and IDH status defines distinct prognostic glioblastoma classes</u>. *Neurology*, 2014. PMID: 25150284

Labreche K\*, Simeonova I\*, Kamoun A\*, Gleize V\*, Chubb D, Letouzé E, Riazalhosseini Y, Dobbins SE, Elarouci N, Ducray F, de Reyniès A, Zelenika D, Wardell CP, Frampton M, <u>Saulnier O</u>, Pastinen T, Hallout S, Figarella-Branger D, Dehais C, Idbaih A, Mokhtari K, Delattre JY\*, Huillard E\*, Lathrop GM\*, Sanson M\*, Houlston RS\*, POLA Network. **TCF12 is mutated in anaplastic oligodendroglioma.** *Nature Communications*, 2015. PMID: 26068201 \*Equal contribution

Ocasio J\*, Babcock B\*, Malawsky D, Weir SJ, Loo L, Simon JM, Zylka MJ, Hwang D, Dismuke T, Sokolsky M, Rosen EP, Vibhakar R, Zhang J, <u>Saulnier O</u>, Vladoiu M, El-Hamamy I, Stein LD, Taylor MD, Smith KS, Northcott PA, Colaneri A, Wilhelmsen K\*, Gershon TR\*. scRNA-seq in medulloblastoma shows cellular heterogeneity and lineage expansion 2 support resistance to SHH inhibitor therapy. *Nature Communications*, 2019. PMID: 31863004. \*Equal contribution

Tanaka I, Chakraborty A, <u>Saulnier O</u>, Benoit-Pilven C, Vacher S, Labiod D, Lam EW, Bièche I, Delattre O, Pouzoulet F, Auboeuf D, Vagner S, Dutertre M. **ZRANB2 and SYF2-mediated splicing programs converging on ECT2 are involved in breast cancer cell resistance to doxorubicin.** *Nucleic Acids Research*, 2020 PMID: 31943118

Aynaud MM\*, Mirabeau O\*, Gruel N, Grossetête S, Boeva V, Durand S, Surdez D, **Saulnier O**, Zaïdi S, Gribkova S, Kairov U, Raynal V, Tirode F, Grünewald TGP, Bohec M, Baulande S, Janoueix-Lerosey I, Vert JP, Barillot E, Delattre O\*, Zinovyev A\*. **Transcriptional programs define intratumoral heterogeneity of Ewing sarcoma at single cell resolution**. *Cell Reports*, 2020. \*Equal contribution

#### SUBMITTED, UNDER REVIEW OR IN REVISION

**Saulnier O\***, Guerdi-Idjouadiene K\*, Aynaud MM, Chakraborty A, Bruyr J, Pineau J, O'Grady T, Mirabeau O, Grossetête S, Galvanm B, Al Oula Hassoun Z, Sadacca B, Laud K, Baulande S, Rambout X, Dutertre M, Delattre O\*, Dequiedt F\*. Antagonistic roles of ERG transcription factors and Ewing-specific fusions in RBFOX2-dependent mRNA splicing. *Nature communications* (In revision) \*Equal contribution

Saulnier O, Vigneau J, Delattre O. Identification of tumor-specific neo-antigens in Ewing sarcoma. Patent

Zagozewski J, Shahriary GM, Coudière Morrison L, Stromecki M, Fresnoza A, Palidwor G, Porter CJ, Forget A, Ayrault O, Hawkins C, Chan JA, <u>Saulnier O</u>, Vladoiu MC, Taylor MD, Ramaswamy V, Werbowetski-Ogilvie TE. **An OTX2-PAX3 signaling axis regulates Group 3 medulloblastoma cell fate.** *Nature Communications* (In revision)

Michealraj A\*, Kim L\*, Kumar S\*, Cavalli FMG, Przelicki D, Wojcik J, Delaidelli A, Bajic A, <u>Saulnier O</u>, McLeod G, Vellanki R, Vladoiu MC, Guilhamon P, Ong W, Lee J, Jiang Y, Lopez B, Juraschka K, Haapasolo J, Rasnitsyn A, Wang E, Richman C, Ly M, Srikanthan D, Luu B, Wu X, Garcia L, Ramaswamy V, Kanshin E, El-Hamamy I, Coutinho F, Prinos P, Singh S, Daniels C, Tyres M, Weiss S, Stein L, Lupien M, Wouters B, Garcia B, Arrowsmith C, Sorensen P, Angers S, Jabado N, Dirks P, Mack SC, Agnihotri S, Rich JN\*, Taylor MD\*. **Metabolic Regulation of the Epigenome Drives Lethal Infantile Ependymoma**. *Cell* (In revision) \*Equal contribution

## AWARDS AND FELLOWSHIPS

7 WARDO AND I ELECTRONIC	
ICGex grant - Next Generation Sequencing platform of Curie Institute ANR EQUIPEX 10-EQPX-0003 €25,000 on 2 years	2017-2019
Ph.D scholarship - Ministry of Higher Education Research and Innovation	
6 <sup>th</sup> place out of 50	
€60,000 on 3 years	2015-2018
Conference awards:  Best poster presentation - RJS, IUH (€100)	2017
Best poster presentation - RJS, IUH (€100)  Best poster presentation - RJS, IUH (€100)	2017
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RELEVANT PRESENTATIONS	
Oral presentations	
Bermuda Principles - Impact on Transcriptomics - Bermuda	2020
PRISME association - Paris, France	2016
YRLS "Young Researchers in Life Science" - Paris, France	2016
Poster presentations *received presentation award	
AACR Annual meeting - Chicago, USA	2018
*RJS "Rencontres Jeunes Scientifiques" - Paris, France	2017
Post-transcriptional Gene Regulation - Paris, France	2017
Keystone symposia "mRNA Processing and Human Disease" - New Mexico, USA	2017
EMBL symposia "The Complex Life of mRNA" - Heidelberg, Germany	2016
*RJS "Rencontres Jeunes Scientifiques" - Paris, France	2016
Post-transcriptional Gene Regulation - Orsay, France	2016
MENTORING AND TEACHING	
Research mentor:	2017-2018
<u>Undergraduate students</u> : Jérômine Vigneau (Master 2), Joséphine Pineau (Master 2)	2011 2010
Scientific activities:	
Organizer of the 3 <sup>rd</sup> ADELIH conference "The origin of cancer: Once upon a cell"	2018
Speakers: S. Baylin, G. Beerx, C. Blanpain, T. Brabletz, P. Campbel, J. Waterfall, P. Dirks, L. Fajas Coll, S. Fre, R. Houlston, L. Laplane, K. Munger, C. Plass, P. Ratcliffe, P.	
Vineis. 200 attendees, €50,000 budget	
Organizer of the 9th annual YRLS conference "Young Researcher in Life Sciences".	2018
Speakers: A. Mudher, D. Odom, V. Vogel. 150 attendees, €40,000 budget	
Treasurer of ADELIH association	2016-2018
Journal service:	0040
Reviewer for <i>Bioinformatics</i>	2016