## Olivier Saulnier, Ph.D

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| Postdoctoral Fellow  olivier.saulnier@sickkids.ca | Developmental & Stem Cell Biology The Hospital for Sick Children |

# Education

Ph.D - Paris-Diderot University, Oncology 2015 - 2018

M.Sc - Paris-Diderot University, Bioinformatics 2013 - 2015

B.Sc - National School of Chemistry, Physics and Biology (ENCPB), Genomics 2012 - 2013

A.Sc - National School of Chemistry, Physics and Biology (ENCPB), Biotechnology 2010 - 2012

# Research and professional experience

***Postdoctoral Fellow*** 2019-  
Advisor: Michael D. Taylor, The Hospital for Sick Children, Developmental & Stem Cell

Biology

***Graduate Research Fellow***  2015-2018  
Advisor: Olivier Delattre, Curie Institute, Diversity and Plasticity of Childhood Tumors

Advisor: Martin Dutertre, Curie Institute, RNA Biology, Signaling and Cancer

***Research Interns*** 2011-2015  
Advisors: Olivier Delattre & Franck Tirode, Curie Institute, Diversity and Plasticity of

Childhood Tumors

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, **Saulnier O**, Paterra R, Marie Y, Finocchiaro G, Sanson M. **Combined analysis of TERT, EGFR, and IDH status defines distinct prognostic glioblastoma classes.** *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, **Saulnier O**, 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, **Saulnier O**, 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, **Saulnier O**, 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, **Saulnier O**, 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, **Saulnier O**, 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

ICGex grant - Next Generation Sequencing platform of Curie Institute 2017-2019

ANR EQUIPEX 10-EQPX-0003  
€25,000 on 2 years

Ph.D scholarship - Ministry of Higher Education Research and Innovation  
6th 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) 2016

# 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  
Undergraduate students: Jérômine Vigneau (Master 2), Joséphine Pineau (Master 2)

**Scientific activities:**Organizer of the 3rd 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:**Reviewer for *Bioinformatics* 2016