# Mathieu Quesnel-Vallières, Ph.D.

mathieu.quesnel-vallieres@pennmedicine.upenn.edu

### AREAS OF EXPERTISE

RNA biology, transcriptomics, cancer, immunology, neuroscience, developmental biology, virology

#### POSITIONS AND TRAINING

Assistant Professor starting 09/2023

Department of Immunology of Cell Biology

Université de Sherbrooke

Postdoctoral training 01/2018-08/2023

Laboratories of Dr. Yoseph Barash, Dr. Kristen Lynch and Dr. Andrei Thomas-Tikhonenko

Department of Biochemistry and Biophysics & Department of Genetics

University of Pennsylvania

"Exploring transcriptomic signatures in myeloid and lymphoid malignancies"

Postdoctoral training 06/2017-08/2017

Laboratories of Dr. Benjamin Blencowe & Dr. Sabine Cordes

Donnelly Centre & Lunenfeld-Tanenbaum Research Institute

University of Toronto

"Implications of a program of alternative splicing in autism spectrum disorders"

Ph.D. 01/2011-05/2017

Department of Molecular Genetics

University of Toronto

Supervisors: Dr. Benjamin Blencowe & Dr. Sabine Cordes

"Investigating the functions of a neural-specific splicing regulator in the developing and adult mammalian nervous system."

Ph.D. rotation 08/2010-12/2010

Department of Molecular Genetics

University of Toronto

### **Summer Institute in Taiwan studentship**

Institute of Cellular and Organismic Biology

Academia Sinica, Taipei

Supervisor: Dr. Jen-Leih Wu

M.Sc. 09/2007-06/2010

Department of Microbiology and Immunology

Université de Montréal

Supervisor: Dr. Hugo Soudeyns

"Establishing transgenic zebrafish lines to study the role of alternative reading frame protein (ARFP) in Hepatitis C pathogenesis."

## **Summer studentship** 05/2007-08/2007

Department of Microbiology and Immunology

06/2009-09/2009

Université de Montréal

Supervisor: Dr. Hugo Soudeyns

"In vitro characterization of the Hepatitis C alternative reading frame protein."

# Summer studentship

05/2006-08/2006

Department of Microbiology and Immunology

Université de Montréal

Supervisor: Dr. Hugo Soudeyns

"Characterization of HIV-1 recombinant forms in antenatal cohort."

**B.Sc. Honor** 09/2004-04/2007

Department of Microbiology and Immunology

Université de Montréal

Supervisor: Dr. Hugo Soudeyns

"Influence of interferon-alpha treatment on Hepatitis C Virus quasispecies evolution in HIV-1 and HCV-coinfected children."

### **PUBLICATIONS**

# **Manuscripts under review**

Liu X, Jones WD, **Quesnel-Vallières M**, Devadiga SA, Lorent K, Valvezan AJ, Myers RL, Li N, Lengner CJ, Barash Y, Pack M, Klein PS; The tumor suppressor adenomatous polyposis coli (APC) is required for cranial neural crest migration in zebrafish. *[under review]* 

# **Peer-reviewed publications**

Wang D, **Quesnel-Vallières M**, Jewell P, Elzubeir M, Lynch KW, Thomas-Tikhonenko A, Barash Y; CHESSBOARD: a Bayesian model for unsupervised detection of alternative splicing-based subtypes in heterogeneous cancers. *Nat Commun.* 14:63.

Peart NJ, Hwang JY, **Quesnel-Vallières M,** Sears MJ, Yang Y, Stoilov P, Barash Y, Park JW, Carstens RP (2022) The global protein-RNA interaction map of Epithelial Splicing Regulatory Protein 1 defines a post-transcriptional program that is essential for epithelial cell function. *iScience*. 25:105205.

Peart NJ, Johnson TA, Lee S, Sears MJ, Yang F, **Quesnel-Vallières M**, Feng H, Recinos Y, Barash Y, Zhang C, Hermann BP, Wang PJ, Geyer CB, Carstens RP (2022) The germ cell-specific RNA binding protein RBM46 is essential for spermatogonial differentiation in mice. *PLoS Genetics*. 18:e1010416.

Cortés-López M, Schulz L, Enculescu M, Paret C, Spiekermann B, Busch A, Orekhova A, Kielisch F, **Quesnel-Vallières M,** Torres-Diz M, Faber J, Barash Y, Thomas-Tikhonenko A, Zarnack K, Legewie S, König J (2022) High-throughput mutagenesis identifies mutations and RNA-binding proteins controlling CD19 splicing and CART-19 therapy resistance. *Nat Commun.* 13:5570.

Wakabayashi A, Kihiu M, Sharma M, Thrasher AJ, Saari MS, **Quesnel-Vallières M**, Abdulmalik O, Chou ST, Peslak SA, Khandros E, Keller CA, Giardine BM, Hardison RC, Shi J, Blobel GA (2022) Identification and characterization of RBM12 as a novel regulator of fetal hemoglobin expression. *Blood Adv.* 2022007904.

Jha A\*#, **Quesnel-Vallières M**\*#, Wang D, Thomas-Tikhonenko A, Lynch KW, Barash Y<sup>#</sup> (2022) Identifying common transcriptome signatures of cancer by interpreting deep learning models. *Genome Biol.* 23:117.

\* equal contribution; # corresponding authors

Zheng S, Gillespie E, Naqvi A, Hayer K, Ang Z, Torres-Diz M, **Quesnel-Vallières M,** Hottman D, Bagashev A, Chukinas J, Asnani M, Shraim R, Schmidt C, Taylor DM, Rheingold SR, O'Brien MM, Singh N, Lynch KW, Ruella M, Barash Y, Tasian SK, Thomas-Tikhonenko A (2022) Modulation of CD22 protein expression in childhood leukemia by pervasive splicing aberrations: implications for CD22-directed immunotherapies. *Blood Cancer Discov.* 3:103-115.

# Article highlighted in a Spotlight in Blood Cancer Discovery

Rivera OD, Mallory MJ, **Quesnel-Vallières M**, Schultz DC, Carroll M, Barash Y, Cherry S, Lynch KW (2021) Alternative splicing redefines landscape of commonly mutated genes in acute myeloid leukemia. *Proc Natl Acad Sci USA*. 118:e2014967118.

Barbieri E, Hill C, **Quesnel-Vallières M**, Zucco AJ, Barash Y, Gardini A (2020) Rapid and Scalable Profiling of Nascent RNA with fastGRO. *Cell Reports*. 33:108373.

Gonatopoulos-Pournatzis T, Niibori R, Salter EW, Weatheritt RJ, Tsang B, Farhangmehr S, Liang X, Braunschweig U, Roth J, Zhang S, Henderson T, Sharma E, **Quesnel-Vallières M**, Permanyer J, Maier S, Georgiou J, Irimia M, Sonenberg N, Forman-Kay JD, Gingras AC, Collingridge GL, Woodin MA, Cordes SP, Blencowe BJ (2020) Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. *Molecular Cell*. 77:1176-1192.

Fiordaliso SK, Iwata-Otsubo A, Ritter AL, **Quesnel-Vallières M**, Fujiki K, Nishi E, Hancarova M, Miyake N, Morton JEV, Lee S, Hackmann K, Bando M, Masuda K, Nakato R, Arakawa M, Bhoj E, Li D, Hakonarson H, Takeda R, Harr M, Keena B, Zackai EH, Okamoto N, Mizuno S, Ko JM, Valachova A, Prchalova D, Vlckova M, Pippucci T, Seiler C, Choi M, Matsumoto N, Di Donato N, Barash Y, Sedlacek Z, Shirahige K, Izumi K (2019) Missense Mutations in NKAP Cause a Disorder of Transcriptional Regulation Characterized by Marfanoid Habitus and Cognitive Impairment. *American Journal of Human Genetics*. 105:987-995.

**Quesnel-Vallières M**#, Weatheritt RJ, Cordes SP#, and Blencowe BJ# (2019) Autism Spectrum Disorder: Insights into convergent mechanisms from transcriptomics. *Nature Reviews Genetics*. 20:51-63.

# corresponding authors

## Featured as the cover of this Nature Reviews Genetics issue

Tapial J, Ha KCH, Sterne-Weiler T, Gohr A, Braunschweig U, Hermoso-Pulido A, **Quesnel-Vallières** M, Permanyer J, Sodaei R, Marquez Y, Cozzuto L, Wang X, Gómez-Velázquez M, Rayon T, Manzanares M, Ponomarenko J, Blencowe BJ, and Irimia M (2017) An atlas of alternative splicing profiles and functional associations reveals new regulatory programs and genes that simultaneously express multiple major isoforms. *Genome Research*. 27:1759-1768.

**Quesnel-Vallières M**, Dargaei Z, Irimia M, Gonatopoulos-Pournatzis T, Ip J, Wu M, Sterne-Weiler T, Nakagawa S, Woodin MA, Blencowe BJ, and Cordes SP (2016) Misregulation of an activity-dependent splicing network as a common mechanism underlying autism spectrum disorders. *Molecular Cell*. 64: 1023-1034.

Featured in international media, including The Globe and Mail, The Independent, ABC (newspaper) and The Scientist

**Quesnel-Vallières M**, Irimia M, Cordes SP, and Blencowe BJ (2015) Essential roles for the splicing regulator nSR100/SRRM4 during nervous system development. *Genes & Development*. 29:746-759.

Irimia M, Weatheritt RJ, Ellis J, Parikshak NN, Gonatopoulos-Pournatzis T, Babor M, **Quesnel-Vallières M**, Tapial J, Raj B, O'Hanlon D, Barrios-Rodiles M, Sternberg MJ, Cordes SP, Roth FP, Wrana JL, Geschwind DH, and Blencowe BJ (2014) A highly conserved program of neuronal microexons is misregulated in autistic brains. *Cell*. 159:1511-1523.

Featured as a preview in Cell, as an editor's choice in Science and a research highlights in Nature Genetics, as well as in international media, including The Toronto Star, Yahoo! News and the Scientist

Larouche A, Gaëtan G, El-Bilali N, **Quesnel-Vallières M**, Martin SR, Alvarez F, Shoukry NH, and Soudeyns H (2012) Seronegative Hepatitis C Virus infection in a child infected via mother-to-child transmission. *Journal of Clinical Microbiology*. 50:2515-2519.

**Quesnel-Vallières M**, Kouzayha I, Tran E, Barry I, Lasgi C, Mérindol N, Monteil V, Ransy DG, Boucher M, Lapointe N, and Soudeyns H (2011) Novel HIV-1 recombinant forms in antenatal cohort, Montreal, Quebec, Canada. *Emerging Infectious Disease*. 17:271-274.

**Quesnel-Vallières M**, Lemay M, Lapointe N, Martin SR, and Soudeyns H (2008) HCV quasispecies evolution during treatment with interferon alfa-2b and ribavirin in two children coinfected with HCV and HIV-1. *Journal of Clinical Virology*. 43:236-240.

## **FUNDING AND AWARDS**

Funding Scholarship for the next generation of scientists Cancer Research Society Can\$ 50,000 postdoctoral fellowship/1 year Can\$ 120,000 operating grant/2 years	09/2022-08/2025
Scholarships Ontario Graduate Scholarship Can\$ 15,000	01/2016-12/2016
Ontario Graduate Scholarship  Can\$ 15,000	09/2014-08/2015
Frederick Banting and Charles Best Canada Graduate Scholarship  Doctoral award, Canadian Institutes of Health Research  Can\$ 90,000 + Can\$ 15,000 research allowance	05/2011-06/2014
Master's training scholarship Fonds de Recherche du Québec – Health Can\$ 8,750	09/2009-04/2010
Summer Program in Taiwan Fellowship  Natural Sciences and Engineering Research Council of Canada  Can\$ 4,800 and travel expenses	06/2009-08/2009
Frederick Banting and Charles Best Canada Graduate Scholarship Master's award, Canadian Institutes of Health Research Can\$ 17,500	09/2008-08/2009
Master's training scholarship CHU Sainte-Justine Foundation of Stars	09/2007-08/2008

Can\$ 13,500

Gabriel-Marquis Excellence Scholarship 07/2007-06/2008

Department of Microbiology and immunology Université de Montréal

Can\$ 8,500

COPSÉ Summer Studentship 05/2007-07/2007

Faculty of Medicine, Université de Montréal

Can\$ 4,251

COPSÉ Summer Studentship 05/2006-07/2006

Faculty of Medicine, Université de Montréal

Can\$ 4,251

**Awards and distinctions** 

1<sup>st</sup> Prize, Postdoc poster in Biochemistry

Retreat of the Department of Biochemistry and Biophysics of the University of Pennsylvania, Pocono Mountains

US\$ 100

1<sup>st</sup> Prize, Postdoc poster

Retreat of the Department of Biochemistry and Biophysics of the University of Pennsylvania, Pocono Mountains

US\$ 100

Poster Prize 06/2016

Gordon Research Conference on Molecular and Cellular Neurobiology, Hong Kong

US\$ 250

Sigma Xi Distinguished Lecturer, Toronto Chapter 04/2016

"Autism spectrum disorders and the molecular roots of brain function"

2015 Dorrington Award 01/2016

Donnelly Centre of the University of Toronto

Can\$ 2,000

Awarded every year to the top two or three graduate students at the Donnelly Centre

Margaret & Howard Gamble Research Grant 09/2015

University of Toronto

Can\$ 5.350

Mary Gertrude l'Anson Scholarship 09/2015

University of Toronto

Can\$ 5,000

Conference grant for the Cold Spring Harbor Laboratory meeting on 08/2015

Eukaryotic mRNA Processing

University of Toronto

Can\$ 1,490

Travel grant for the Gordon Research Conference on 05/2015

Excitatory Synapses and Brain Function

Lunenfeld-Tanenbaum Research Centre

Can\$ 1,000

12/2022

Hannah Farkas-Himsley and Alexander Himsley Memorial Prize

09/2014

Department of Molecular Genetics of the University of Toronto

Can\$ 2,396

Awarded every other year to the most meritorious all-around PhD student in the Department of Molecular Genetics

2<sup>nd</sup> Prize, Poster 09/2014

Retreat of the Department of Molecular Genetics of the University of Toronto, Orillia (ON)

Can\$ 300

Poster Prize 05/2014

Retreat of the Lunenfeld-Tanenbaum Research Institute, Orillia (ON)

Can\$ 100

Norman Bethune Award 09/2011

Department of Molecular Genetics of the University of Toronto

Can\$ 2,000

Awarded annually to the most meritorious junior PhD student in the Department of Molecular

Genetics

Poster Prize 05/2011

Samuel Lunenfeld Research Institute Retreat, Orillia (ON)

Can\$ 100

Poster Prize 06/2009

CHU Sainte-Justine Graduate students and postdoctoral fellows symposium, Montréal (QC)

Can\$ 150

Excellence Award 09/2008

Faculty of Graduate and Postdoctoral Studies of the Université de Montréal

Can\$ 5,000

One of ten awards attributed annually to the best all-around graduate students at the Université de Montréal

Poster Prize 06/2008

Symposium of the CHU Sainte-Justine Graduate students and postdoctoral fellows, Montréal (QC)

Can\$ 150

Excellence Award 05/2008

CHU Sainte-Justine Research Centre

Can\$ 1,500

Honourable Mention 11/2007

Symposium of the FRQS AIDS and Infectious Disease Network, Montréal (QC)

Best oral presentation in Molecular and Cell Biology 01/2007

Symposium of the Department of Biological Sciences of the Université de Montréal, Montréal (QC) Can\$ 100

#### **PRESENTATIONS**

(a star marks the presenting author)

## Invited and selected talks

**Quesnel-Vallières M\***, Radens C, Davis J, Hayer K, Lynch KW, Thomas-Tikhonenko A, Barash Y. Discovery of new immunotherapy targets in cancer from transcriptomic data. ISMB, Lyon, France, July 2023.

[Selected talk, international]

**Quesnel-Vallières M\***, Lynch KW, Thomas-Tikhonenko A, Barash Y. Discovery of cancer immunotherapy targets from splicing variations. RiboClub Meeting, Orford, Canada, September 2022. [Selected talk, international]

**Quesnel-Vallières M.\***, Jha A., Thomas-Tikhonenko A., Lynch K.W., Barash Y. Identifying universal cancer transcriptome signatures by interpreting deep learning models. Intelligent Systems for Molecular Biology Meeting, Virtual, July 2021. *[Selected talk, international]* 

**Quesnel-Vallières M.\***, Vaquero-Garcia J., Slaff B., Norton S., Wang D., Lynch K.W., Barash Y. Methods for RNA splicing analysis using large heterogeneous datasets. RNA Society Meeting, Krakow, Poland, June 2019. [Selected talk, international]

**Quesnel-Vallières M.\***, Barash Y. Big RNA splicing data – challenges and advancements. RiboClub Annual Meeting, Orford, Canada, September 2018. [Invited talk, international]

**Quesnel-Vallières M.\***, Dargaei Z., Irimia M., Gonatopoulos-Pournatzis T., Ip J., Sterne-Weiler T., Nakagawa S., Woodin M.A., Blencowe B.J., and Cordes S.P. Linking an alternative splicing regulatory network to autism spectrum disorder. Gordon Research Conference and Seminar on Molecular and Cellular Neurobiology, Hong Kong, People's Republic of China, June 2016. [Selected talk at Seminar, poster at Conference, international]

**Quesnel-Vallières M.\***, Dargaei Z., Irimia M., Gonatopoulos-Pournatzis T., Ip J., Sterne-Weiler T., Nakagawa S., Woodin M.A., Blencowe B.J., and Cordes S.P. An alternative splicing regulatory network underlies autism spectrum disorder. Lunenfeld-Tanenbaum Research Institute Retreat, Orillia, Canada, May 2016. [Invited talk, institutional]

**Quesnel-Vallières M.\***, Dargaei Z., Irimia M., Sterne-Weiler T., Woodin M.A., Cordes S.P., and Blencowe B.J. Role of a neuronal-specific alternative splicing regulatory network in autism spectrum disorders. RiboClub Annual Meeting, Orford, Canada, September 2015. [Invited talk, international]

**Quesnel-Vallières M.\***, Sterne-Weiler T., Irimia M., Cordes S.P., and Blencowe B.J. nSR100/SRRM4 links alternative splicing to brain function and behavior in the adult animal. Cold Spring Harbor Laboratory meeting on Eukaryotic mRNA Processing, Cold Spring Harbor, USA, August 2015. [Selected talk, international]

**Quesnel-Vallières M.\***, Irimia M., Blencowe B.J., and Cordes S.P. Functional roles of the nSR100/SRRM4 alternative splicing regulator in the adult mammalian nervous system. Gordon Research Conference and Seminar on Excitatory Synapses and Brain Function, Newport, USA, June 2015. [Selected talk at Seminar, poster at Conference, international]

**Quesnel-Vallières M.\***, Irimia M., Cordes S.P., and Blencowe B.J. Functional roles of the nSR100/SRRM4 alternative splicing factor in the development of the mammalian nervous system. Gordon Research Conference and Seminar on Post-Transcriptional Gene Regulation. Newport, USA July 2014. [Selected talk at Seminar, poster at Conference, international]

**Quesnel-Vallières M.\***, Irimia M., Cordes S.P., and Blencowe B.J. Essential roles for the neural-specific splicing regulator nSR100 in the developing mouse nervous system. Cold Spring Harbor Laboratory meeting on Eukaryotic mRNA Processing, Cold Spring Harbor, Canada August 2013. [Selected talk, international]

### Talks and posters

**Quesnel-Vallières M.\***, Jha A., Wang D., Thomas-Tikhonenko A., Lynch K.W. and Barash Y. Common RNA signatures of cancer. RNA Society Meeting, Boulder, USA, June 2022. *[Poster, international]* 

**Quesnel-Vallières M.\***, Irimia M., Cordes S.P., and Blencowe B.J. Dissecting the in vivo functions of the neural splicing regulator nSR100. Department of Molecular Genetics Annual Retreat, Orillia, September 2014. [Poster, institutional]

**Quesnel-Vallières M.\***, Irimia M., Cordes S.P., and Blencowe B.J. Dissecting the in vivo functions of the neural splicing regulator nSR100/SRRM4. RNA Society Meeting, Québec city, Canada, June 2014. [Poster, international]

**Quesnel-Vallières M.\***, Irimia M., Cordes S.P., and Blencowe B.J. Essential roles for the neural-specific splicing regulator nSR100 in the developing mouse nervous system. Lunenfeld-Tanenbaum Research Institute Retreat, Orillia, Canada May 2014. [Poster, institutional]

**Quesnel-Vallières M.\***, Cordes S.P., and Blencowe B.J. Investigating the functions of a neural-specific splicing regulator in the developing mouse central nervous system. 2012 Canadian meeting of the Society for Developmental Biology, Banff, Canada March 2012. [Poster, national]

**Quesnel-Vallières M.\***, Cordes S.P., and Blencowe B.J. Investigating the functions of nSR100 in the mammalian central nervous system. 2011 Samuel Lunenfeld Research Institute Retreat, Orillia, Canada, May 2011. *[Poster, institutional]* 

**Quesnel-Vallières M.\***, Liu W., Wu J.L., and Soudeyns H. Studying the role of ARFP in HCV pathogenesis using transgenic zebrafish. FRQS AIDS and Infectious Disease Network Symposium, Montréal, Canada, November 2009. [Talk, provincial]

**Quesnel-Vallières M.\***, Kouzayha I., Tran E., Barry I., Lasgi C., and Soudeyns H. Identification of 4 novel HIV-1 recombinants by full-length genome analysis. 2009 CHU Sainte-Justine Students Conference, Montréal, Canada, June 2009. [Poster, institutional]

**Quesnel-Vallières M.\***, Kouzayha I., Tran E., Barry I., Lasgi C., Bertrand O., Mérindol N., Soudeyns H. Full-length genomic analysis of 4 novel HIV-1 recombinants. FRQS AIDS and Infectious Disease Network Symposium, Montréal, Canada, November 2008. *[Talk, provincial]* 

**Quesnel-Vallières M.\***, and Soudeyns H. Functional study of the F protein of the hepatitis C virus using zebrafish as an animal model. 2008 CHU Sainte-Justine Students Conference, Montréal, Canada, June 2008. [Poster, institutional]

**Quesnel-Vallières M.\***, and Soudeyns H. Study of the biological function of the F protein of hepatitis C virus in zebrafish. FRQS AIDS and Infectious Disease Network Symposium. Montréal, Canada, November 2007. [Poster, provincial]

**Quesnel-Vallières M.\***, Mérindol N., Kouzayha I., Barry I., Boucher M., and Soudeyns H. Identification of two novel recombinant forms of HIV-1. 17<sup>th</sup> Graduate Students Symposium of the Department of Biological Sciences, Université de Montréal. Montréal, Canada, January 2007. *[Talk, institutional]* 

#### **PATENT**

Blencowe B.J., Quesnel-Vallières M., Irimia M., Raj B., and Cordes S.P. "Modulation and detection

of a neuronal alternative splicing regulatory network for treatment and diagnosis of neurological disorders" 2015, US Patent No. 10,772,928

#### PEER-REVIEWING ACTIVITIES

Reviewer for PLoS Genetics (since 2018), Nature Communications (since 2019), Nucleic Acids Research (since 2019), Genome Research (since 2019), Cell Reports (since 2019), Molecular Psychiatry (since 2019), Cellular and Molecular Gastroenterology and Hepatology (since 2020), Genomic Medicine (since 2022).

#### TEACHING AND MENTORING

Direct mentoring, guidance or training of 7 undergraduate students, 5 graduate students and 2 postdoctoral fellows	09/2006-present
Teaching Assistant, General Microbiology MCB1979 Department of Microbiology and Immunology, Université de Montréal	01/2010-04/2010
Teaching Assistant, Microbiology and Virology MCB3094 Department of Microbiology and Immunology, Université de Montréal	11/2009
Teaching Assistant, Microbiology for Nutritional Sciences MCB3050 Department of Microbiology and Immunology, Université de Montréal	10/2009-11/2009
Teaching Assistant, General Microbiology MCB1979 Department of Microbiology and Immunology, Université de Montréal	01/2007-04/2007

### NON-PEER REVIEWED PUBLICATIONS

### **Doctoral thesis**

**Quesnel-Vallières M.** (2017) Role of an alternative splicing regulatory program in nervous system development and disorders. Ph.D., University of Toronto, Canada. 180 pages.

#### Master's thesis

**Quesnel-Vallières M.** (2010) Développement de lignées de poissons zébrés transgéniques pour l'étude du rôle de la protéine F dans la pathogénèse de l'hépatite C. M.Sc., Université de Montréal, Canada. 116 pages.

# Research report produced for a government

**Quesnel-Vallières M.**, Liu W., Wu J.L., and Soudeyns H. (2009) Study of the biological function of the hepatitis C virus ARFP in transgenic zebrafish. Report submitted to the National Science Council of Taiwan. September 2009. 11 pages.

## Article in a cultural journal

**Quesnel-Vallières M.** (2007) Le virus de l'hépatite C: défis complexes et perspectives encourageantes. Dire. 17:36-39.

# **EXTRACURRICULAR ACTIVITIES**

In charge of the online activities of the integrative RNA research group of the International Society for Computational Biology (iRNA COSI; https://irnacosi.org/)	02/2020-current
Representative, Donnelly Centre Graduate Student Association	07/2012-07/2013
Executive member of the Academic Affairs Committee of the CHU Sainte-Justine Research Centre Master's students representative	05/2009-06/2010
The Academic Affairs Committee is an executive committee composed of one student post-graduate level, principal investigators, physicians, and administrative members Sainte-Justine Research Centre.	
Representative, CHU Sainte-Justine Graduate Students Association	05/2008-06/2010
Mentoring of eight teams participating to the 2009 and 2010 Bell Science Fairs	2009-2010
Ambassador;	2008-2010
Canadian Institutes of Health Research Synapse Program Sensibilisation aux Études, à l'Université et à la Recherche (Université de Montréal) Innovateurs à l'école (Societé pour la Promotion de la Science et de la Technologie)	
Judging for science fairs	2008-2010
BioTalent Sanofi-Aventis Challenge (2008, 2009 and 2010) Bell Science Fair (regional and provincial finals 2008, provincial finals 2010)	
Touring high schools and hosting seminars to promote graduate studies and health research, reaching over 500 students	2008-2010

# **CAREER INTERRUPTIONS**

09/2015-12/2015 Paternity leave 06/2013-07/2013 Paternity leave