

# Annie Dupuis, PhD

Email: Annie.Dupuis@mdstats.ca

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## Education

*November 2001- December 2003*

### **CIHR Post Doctoral Fellow**

Population Health Sciences, Hospital for Sick Children, Toronto, Ontario  
Supervisor: Dr. Mary Corey

*September 1996 – November 2001*

### **PhD biostatistics**

Public Health Sciences, University of Toronto, Toronto, Ontario  
Supervisor: Dr. Paul Corey

- NSERC (PGS – B) Scholarship
- University of Toronto Open Fellowship

*September 1994 – September 1996*

### **MSc biostatistics**

Public Health Sciences, University of Toronto, Toronto, Ontario  
Supervisor: Dr. Michael Escobar

- NSERC (PGS – A) scholarship
- University of Toronto Open Fellowship

*May 1991 – May 1994*

### **BSc statistics** (First class honours)

Statistics, Dalhousie University, Halifax, Nova Scotia

- University Medal in Statistics
- Ralph and Frances Lewis Jeffery Scholarship
- Dalhousie University Scholarship

## **Employment**

*August 2018 – present* **Independent Consultant**

*July 2013 – August 2018* **Senior Biostatistician**

Clinical Research Services, Hospital for Sick Children, Toronto, Ontario  
Supervisor: Dr. Lisa Goos

*June 2004 – July 2013* **Biostatistician**

Child Health Evaluative Sciences, Hospital for Sick Children, Toronto, Ontario  
Supervisor: Derek Stephens

*September 2008 – March 2012* **Biostatistician**

Research Institute, Bloorview Kids Rehab, Toronto, Ontario 0.2FTE  
Supervisor: Dr. Colin McArthur, Dr. Virginia Wright

*December 2003 – June 2005* **Independent Consultant**

*November 2001 – December 2003* **Post Doctoral Fellow**

Population Health Sciences, Hospital for Sick Children, Toronto, Ontario  
Supervisor: Dr. Mary Corey

*October 1995 – November 2001* **Research Assistant**

Population Health Sciences, Hospital for Sick Children, Toronto, Ontario  
Supervisor: Dr. Mary Corey

*June 1995 – September 1995* **Consultant**

Pasteur Mérieux Connaught, North York, Ontario  
Supervisor: Sanjay Mitter

*September 1992 – May 1994* **Research Assistant**

Community Health and Epidemiology, Dalhousie University, Halifax, Nova Scotia  
Supervisor: Dr. David MacLean

*April 1993 – Septemeber 1993* **Research Assistant**

Statistics, Dalhousie University, Halifax, Nova Scotia  
Supervisor: Dr. Chris Field

*January 1992 – April 1992* **Research Assistant**

Bedford Institute of Oceanography, Habitat Ecology Division, Dartmouth, Nova Scotia  
Supervisor: Dr. Gareth Harding

## **Teaching**

*August 2018 – present* **Adjunct Professor**

*Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario*

- Practicum supervisor: Lab Course CHL5207Y/CHL5208Y

*May 2008 – August 2018* **Assistant Professor**

*Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario*

- Practicum supervisor and instructor: Lab Course CHL5207Y/CHL5208Y
- Guest lecturer: VicOne, Augusta Stowe-Guleen Stream 2015/16
- Reading course: CHL7001H "Statistical Methods for Categorical Data", Spring 2009

Annie Dupuis, Resume

September 2006 – June 2008 **Practicum Supervisor**  
Faculty of Medicine, University of Toronto, Toronto, Ontario

September 1998 – December 1998 **Lecturer**  
Faculty of Pharmacy, University of Toronto, Toronto, Ontario

## **Student supervision**

### ***PhD Co-Supervisor***

2015/2020 Mohsen Soltanifar PhD student, Biostatistics, University of Toronto  
Thesis: Stop Signal Reaction Times: New Estimations with Frequentist, Bayesian and Time Series based Methods

### ***Program Advisory Committee Member***

2017/2018 Xiang Ji MSc student, Institute of Medical Sciences, University of Toronto  
Project: To develop a better test to detect Vigabatrin toxicity

2017/2018 Tania Mahendiran MSc student, Institute of Medical Sciences, University of Toronto  
Project: Gender differences in social communication deficits in ASD

2016/2017 Mary Yang MSc student, Institute of Medical Sciences, University of Toronto  
Project: Evaluation of RETeval, a new portable ERG system

2015/16 Sahar Borairi MSc student, Institute of Medical Sciences, University of Toronto

2013/15 Marlana Colasanto MSc student, Institute of Medical Sciences, University of Toronto  
Thesis: Repetitive behaviours across ASD, ADHD and OCD.

2013/ongoing Allan Poon MSc student, Institute of Medical Sciences, University of Toronto  
Thesis: Investigating early structural and functional biomarkers of diabetic retinopathy.

2013/14 Ananthavalli Kumara MSc student, Institute of Medical Sciences, University of Toronto  
Thesis: Association Between Vigabatrin Toxicity Identified by ERG and Subsequent Visual Field Reduction.

2013/14 Laura Finkleberg MSc student, Institute of Medical Sciences, University of Toronto  
Thesis: Cone photoreceptor structure and function in adolescents with type 1 diabetes

2011/12 Wylie Tan MSc student, Institute of Medical Sciences, University of Toronto  
Thesis: Localizing Structural and Functional Damage in the Neural Retina of Adolescents with Type 1 Diabetes.

### ***Practicum Supervisor***

2021/22 Maria Sbirnac MSc Student, Biostatistics Lab Course, University of Toronto  
Project: Longitudinal analyses of disease trajectories in CFSPID

2020/21 Piyumi Mudiyansele MSc Student, Biostatistics Lab Course, University of Toronto  
Project: Item Response Theory of ADHD traits in ASD

2019/20 Jiachen Zhu MSc Student, Biostatistics Lab Course, University of Toronto  
Project: Cognitive profiles on the Stop Signal Task

2019/20 Saneea Mufea MSc student, Biostatistics Lab Course, University of Toronto

*Annie Dupuis, Resume*

Project: Performance on the Flanker Task in children with ADHD

2018/19 Ha Song Pham MSc student, Biostatistics Lab Course, University of Toronto  
Project: Performance on the Flanker Task in children with ADHD

2018/19 Lixue Ouyang MSc student, Biostatistics Lab Course, University of Toronto  
Project: ODD and CD symptom profiles across measures and informants

2017/18 Alison Chui MSc student, Biostatistics Lab Course, University of Toronto  
Project: Characterizing working memory deficits in ADHD using the Nback task

2016/17 Jimmy Hu MSc student, Biostatistics Lab Course, University of Toronto  
Project: Verbal and spatial working memory across increasing workloads in ADHD.

2016/17 Alex Zhen MSc student, Biostatistics Lab Course, University of Toronto  
Project: Social functioning across ADHD and ASD.

2015/16 Mohsen Soltanifar PhD student, Biostatistics Lab Course, University of Toronto  
Project: Modeling stop signal inhibition probability using repeated measures logistic regression.

2015/16 Michael Moon MSc student, Biostatistics Lab Course, University of Toronto  
Project 1: Is the prevalence of rigid and ritualistic repetitive behaviors reduced in children with ASD and high ADHD traits?  
Project 2: Correlation between the Vineland Adaptive Behavior Scale (interview) and the Adaptive Behavior Assessment System; do IQ, primary and comorbid diagnoses, and age predict systematic differences between scores?

2014/15 Meheshan Indralingam MSc student, Biostatistics Lab Course, University of Toronto  
Project: Longitudinal modeling of Stop Task data in children with ADHD.

2014/15 Qian Yang MSc student, Biostatistics Lab Course, University of Toronto  
Project: Setting effects in Stop Task parameters.

2013/14 Nadia Muhe MSc student, Biostatistics Lab Course, University of Toronto  
Project: Cluster Analysis of psychometric data for children with ADHD.

2013/14 Lei Miao MSc student, Biostatistics Lab Course, University of Toronto  
Project: Functional outcomes in young adolescents with ADHD.

2012/13 Luis Palma MSc student, Biostatistics Lab Course, University of Toronto  
Project: Controlling for baseline values when modeling longitudinal disease progression.

2012/13 Yunqi Chen MSc student, Biostatistics Lab Course, University of Toronto  
Project: Developing graphical displays to explore patterns in autism phenotypes.

2011/12 Azadeh Tanha MSc student, Biostatistics Lab Course, University of Toronto  
Project: Clinical Trial of group therapy programme for young children with anxiety disorder.

2010/11 Jingqin Zhu MSc student, Biostatistics Lab Course, University of Toronto  
Project: The association between certain gene mutations and the risk of pancreatitis in patients with CF and CFTR related disorders.

2008/09 Sue Klejman MSc student, Biostatistics Lab Course, University of Toronto  
Project: Measures of reliability, error, and potential change. Bloorview Kids Rehab.

## *Annie Dupuis, Resume*

2008/09 Lucia Light MSc student, Biostatistics, University of Toronto  
Project: Developing a quality of life scale for use in children with primary ciliary dyskinesia.

2007/08 Andy Ni MSc student, Biostatistics Lab course, University of Toronto  
Project: Using principal component analysis to develop a cystic fibrosis spectrum score.

2006/07 Liz (Weili) Li MSc student, Biostatistics Lab Course, University of Toronto  
Project: Using real time data capture to measure pain in adolescents with arthritis.

### **Data Safety Monitoring Board membership**

**Title:** Simple Bone Cysts in Kids (SBoCK)

**Years:** 2016-

**Sponsor:** Dr. James Wright

**Title:** A randomized placebo-controlled trial of tideglusib vs. placebo in the treatment of adolescents with ASD "TIDE Study"

**Years:** 2015-

**Sponsor:** Dr. Evdokia Anagnostou

**Title:** Inhaled Magnesium in Refractory Pediatric Acute Asthma

**Years:** 2012-

**Sponsor:** Dr. Suzanne Schuh

### **Ongoing Research Support**

**Title:** Examining the role of emotion regulation and arousal in co-morbid anxiety in autism spectrum disorder (ASD)

**Years:** 2018-04-01 - current

**Agency:** CIHR (Project Grant: \$539,325)

**PI:** Azadeh Kushki, PhD

**Role:** Co-Investigator

**Title:** Accuracy of general paediatrician diagnosis of autism spectrum disorder compared to multi-disciplinary team assessment

**Years:** 2019-04-01- current

**Agency:** CIHR (Project Grant: \$256,272)

**PI:** Melanie Penner, MD

**Role:** Collaborator

### **Past Research Support**

**Title:** The PainSquad+ Real-time Pain Management System for Adolescents with Cancer: A Feasibility, Quality and Cost Study

**Years:** 2014-03-01;2015-02-28

**Agency:** CIHR. (Catalyst Grant: eHealth Innovations: \$92,228)

**PI:** Stinson Jennifer N, PhD

**Role:** Co-Investigator

**Title:** Investigation of the Efficacy of the JUMP Program of Mathematics Instruction

**Years:** 2012-18

**Agency:** IES Institute for Education Sciences. (\$2,750,000 US)

**PI:** Rosemary Tannock, PhD, and Bruce Ferguson PhD

**Role:** Co-Investigator

*Annie Dupuis, Resume*

**Title:** Intranasal Oxytocin for the Treatment of Children and Adolescents with ASD

**Years:** 2011-2015

**Agency:** Department of Defense (\$801,790)

**PI:** Evdokia Anagnostou, M.D., Suma Jacob, PhD

**Role:** Co-Investigator

**Title:** Mood Assessment via Animated Characters: An innovative feelings rating scale

**Years:** 2010-13

**Agency:** SSHRC (\$98,000)

**PI:** Katharina Manassis, M.D.

**Role:** Co-Investigator

**Title:** A pilot randomized, placebo controlled trial of OMEGA-3 fatty acids in treatment of young children with autism

**Years:** 2009-12

**Agency:** Alva Foundation (\$150,000)

**PI:** Evdokia Anagnostou, M.D.

**Role:** Co-PI

**Title:** Diagnosing Cystic Fibrosis in Neonates and Adults: Where do we draw the line?

**Years:** 2009 – 2011

**CCFF** (\$120,000)

**PI:** Peter Durie, M.D.

**Role:** Consultant

## **Workshops and Local Presentations**

2017 - *SORA-TABA Data Visualization Workshop and DLSPH Biostatistics Research Day* - co-chair, Hospital for Sick Children, Toronto, Ontario

2016 – *Facts are stubborn things, but statistics are more pliable*, Integrity in Medicine Workshop, Faculty of Medicine, University of Toronto.

*Creating a database, Introduction to Biostatistics, Biostatistics Models II,*

*Graphical Methods* – Ophthalmology, Hospital for Sick Children, Toronto, Ontario

2015 – *Creating a database(2), Introduction to SAS I, Introduction to Linear Regression* – Research Institute, Hospital for Sick Children, Toronto, Ontario

*Creating a database, Introduction to Biostatistics, Biostatistics Models II,*

*Graphical Methods* – Ophthalmology, Hospital for Sick Children, Toronto, Ontario

2014 – *Introduction to Biostatistics* – BME479H1 - Introduction to biomedical systems engineering design concepts, Engineering, University of Toronto, Toronto, Ontario

*Creating a database(3), Introduction to SAS I (2)* – Research Institute, Hospital for Sick Children, Toronto, Ontario

*Creating a database, Introduction to Biostatistics, Biostatistics Models II,*

*Graphical Methods* – Ophthalmology, Hospital for Sick Children, Toronto, Ontario

*Identifying homogeneous subgroups of children and adolescents with ADHD, autistic,*

*OCD, and ID traits* – POND Scientific Research Day, Hospital for Sick Children, Toronto, Ontario

2013 – *Creating a database, Introduction to Biostatistics, Biostatistics Models II,*

*Graphical Methods* – Ophthalmology, Hospital for Sick Children, Toronto, Ontario

*Identifying homogeneous subgroups of children and adolescents with ADHD, autistic,*

*OCD, and ID traits* – POND Scientific Research Day, McMaster University, Toronto, Ontario

2012 – *Mixed Models Analysis* – CHES, Hospital for Sick Children, Toronto, Ontario

*Creating a database, Introduction to Biostatistics, Graphical Methods* – Ophthalmology,

Hospital for Sick Children, Toronto, Ontario

2011 – *Creating a database, Introduction to Biostatistics, Graphical Methods* – Ophthalmology,

Hospital for Sick Children, Toronto, Ontario

*Data Entry, Introduction to Biostatistics, Graphical Methods* – Holland Bloorview

- Kids Rehab, Toronto, Ontario  
2010 – *Evaluating the Validity and Reliability of Rating Scales* – CHES, Hospital for Sick Children, Toronto, Ontario  
*Overview of Statistical Methods* – CHES, Hospital for Sick Children, Toronto, Ontario  
*Data Entry, Introduction to Biostatistics, Graphical Methods* – Ophthalmology, Hospital for Sick Children, Toronto, Ontario

### **Conference presentations and first author posters**

- 2015 – Identifying homogenous subgroups of children with ASD, ADHD, and OCD (Poster)  
IMFAR Salt Lake City, Utah  
2012 – Introduction to Biostatistics – Hammad Health Sciences Centre, Doha, Qatar  
2007 – Redefining the diagnostic parameters of Cystic Fibrosis.  
North American Cystic Fibrosis Conference Anaheim, California  
2007 – Establishing a research database (moderator).  
North American Shwachman-Diamond Syndrome Registry meeting.  
National Institute of Health, Bethesda, Maryland  
2006 – Establishing research hypotheses.  
International Shwachman-Diamond Syndrome database workshop. Verona, Italy  
2006 – Designing case report forms.  
International Shwachman-Diamond Syndrome database workshop. Verona, Italy  
2004 – Making sense of the data: novel analytical methods for re-defining diagnostic standards.  
North American Cystic Fibrosis Conference Symposium. St. Louis, Missouri.  
Pediatr Pulmonol 2004;Suppl(113-114).  
2003 – Statistical and graphical methods for defining phenotype in spectrum disorders.  
CAIRN Conference. Toronto, Ontario.  
2002 – Declining CF Birth Rates in Canada: a genetic screening effect? N Amer CF Conference,  
New Orleans, Louisiana (Poster)

### **Publications**

2021

**Dupuis A**, Moon MJ, Brian J, Georgiades S, Levy T, Anagnostou E, Nicolson R, Schachar R, Crosbie J. Concurrent Validity of the ABAS-II Questionnaire with the Vineland II Interview for Adaptive Behavior in a Pediatric ASD Sample: High Correspondence Despite Systematically Lower Scores. *J Autism Dev Disord*. 2021 May;51(5):1417-1427. doi: 10.1007/s10803-020-04597-y. PMID: 32776267.

Gonska T, Keenan K, Au J, **Dupuis A**, Chilvers MA, Burgess C, Bjornson C, Fairservice L, Brusky J, Kherani T, Jober A, Kosteniuk L, Price A, Itterman J, Morgan L, Mateos-Corral D, Hughes D, Donnelly C, Smith MJ, Iqbal S, Arpin J, Reisman J, Hammel J, van Wylick R, Derynck M, Henderson N, Solomon M, Ratjen F. Outcomes of Cystic Fibrosis Screening-Positive Infants With Inconclusive Diagnosis at School Age. *Pediatrics*. 2021 Dec 1;148(6):e2021051740. doi: 10.1542/peds.2021-051740. PMID: 34814176.

Schachar RJ, **Dupuis A**, Anagnostou E, Georgiades S, Soreni N, Arnold PD, Burton CL, Crosbie J. Obsessive-compulsive disorder in children and youth: neurocognitive function in clinic and community samples. *J Child Psychol Psychiatry*. 2021 Oct 22. doi: 10.1111/jcpp.13533. Epub ahead of print. PMID: 34687037.

Soltanifar M, Escobar M, **Dupuis A**, Schachar R. A Bayesian Mixture Modelling of Stop Signal Reaction Time Distributions: The Second Contextual Solution for the Problem of Aftereffects of Inhibition on SSRT Estimations. *Brain Sci*. 2021 Aug 21;11(8):1102. doi: 10.3390/brainsci11081102. PMID: 34439721; PMCID: PMC8391500.

Cardy RE, **Dupuis A**, Anagnostou E, Ziolkowski J, Biddiss EA, Monga S, Brian J, Penner M, Kushki A. Characterizing Changes in Screen Time During the COVID-19 Pandemic School Closures in Canada and Its Perceived Impact on Children With Autism Spectrum Disorder. *Front Psychiatry*. 2021 Aug 18;12:702774. doi: 10.3389/fpsy.2021.702774. PMID: 34483995; PMCID: PMC8416261.

Birimberg-Schwartz L, Rajiwate S, **Dupuis A**, Gonska T. Pediatric Acute Pancreatitis: Changes in Management and Disease Outcomes Over 16 Years. *Pancreas*. 2021 Mar 1;50(3):341-346. doi: 10.1097/MPA.0000000000001759. PMID: 33835964.

#### 2020 and earlier

Soltanifar M, Knight K, **Dupuis A**, Schachar R, Escobar M. A Time Series-Based Point Estimation of Stop Signal Reaction Times: More Evidence on the Role of Reactive Inhibition-Proactive Inhibition Interplay on the SSRT Estimations. *Brain Sci*. 2020 Aug 29;10(9):598. doi: 10.3390/brainsci10090598. PMID: 32872438; PMCID: PMC7563621.

Sinopoli VM, Erdman L, Burton CL, Park LS, **Dupuis A**, Shan J, Goodale T, Shaheen SM, Crosbie J, Schachar RJ, Arnold PD. Serotonin system genes and hoarding with and without other obsessive-compulsive traits in a population-based, pediatric sample: A genetic association study. *Depress Anxiety*. 2020 Aug;37(8):760-770. doi: 10.1002/da.22996. Epub 2020 Feb 24. PMID: 32092211.

Sinopoli VM, Erdman L, Burton CL, Park LS, **Dupuis A**, Shan J, Goodale T, Shaheen SM, Crosbie J, Schachar RJ, Arnold PD. Serotonin system genes and obsessive-compulsive trait dimensions in a population-based, pediatric sample: a genetic association study. *J Child Psychol Psychiatry*. 2019 Dec;60(12):1289-1299. doi: 10.1111/jcpp.13079. Epub 2019 Jul 19. PMID: 31321769.

Ip A, **Dupuis A**, Anagnostou E, Loh A, Dodds T, Munoz A, Smile S. General paediatric practice in autism spectrum disorder screening in Ontario, Canada: Opportunities for improvement. *Paediatr Child Health*. 2019 Nov 14;26(1):e33-e38. doi: 10.1093/pch/pxz150. PMID: 33542776; PMCID: PMC7850291.

Mahendiran T, Brian J, **Dupuis A**, Muhe N, Wong PY, Iaboni A, Anagnostou E. Meta-Analysis of Sex Differences in Social and Communication Function in Children With Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder. *Front Psychiatry*. 2019 Nov 4;10:804. doi: 10.3389/fpsy.2019.00804. PMID: 31749718; PMCID: PMC6844182.

Solomon T, **Dupuis A**, O'Hara A, Hockenberry MN, Lam J, Goco G, Ferguson B, Tannock R. A cluster-randomized controlled trial of the effectiveness of the JUMP Math program of math instruction for improving elementary math achievement. *PLoS One*. 2019 Oct 30;14(10):e0223049. doi: 10.1371/journal.pone.0223049. PMID: 31665143; PMCID: PMC6821143.

Mahendiran T, **Dupuis A**, Crosbie J, Georgiades S, Kelley E, Liu X, Nicolson R, Schachar R, Anagnostou E, Brian J. Sex Differences in Social Adaptive Function in Autism Spectrum Disorder and Attention-Deficit Hyperactivity Disorder. *Front Psychiatry*. 2019 Sep 12;10:607. doi: 10.3389/fpsy.2019.00607. PMID: 31572228; PMCID: PMC6751776.

Ji X, McFarlane M, Liu H, **Dupuis A**, Westall CA. Hand-held, dilation-free, electroretinography in children under 3 years of age treated with vigabatrin. *Doc Ophthalmol*. 2019 Jun;138(3):195-203. doi: 10.1007/s10633-019-09684-9. Epub 2019 Mar 2.



Verbruggen F, [and 48 others, including **Dupuis A.**] A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. *Elife*. 2019 Apr 29;8. pii: e46323. doi: 10.7554/eLife.46323.

**Dupuis A**, Indralingam A, Chevrier A, Crosbie C, Arnold P, Burton CL, Schachar R. Response time adjustment in the Stop Signal Task: development in children and adolescents. *Child Dev*. 2019 Mar;90(2):e263-e272. doi: 10.1111/cdev.13062. Epub 2018 Mar 30

Keenan K, **Dupuis A**, Griffin K, Castellani C, Tullis E, Gonska T. Phenotypic spectrum of patients with cystic fibrosis and cystic fibrosis-related disease carrying p.Arg117His. *J Cyst Fibros*. 2019 Mar;18(2):265-270. doi: 10.1016/j.jcf.2018.09.002. Epub 2018 Sep 29.

Burton CL, Wright L, Shan J, Xiao B, **Dupuis A**, Goodale T, Shaheen SM, Corfield EC, Arnold PD, Schachar RJ, Crosbie J. SWAN scale for ADHD trait-based genetic research: a validity and polygenic risk study. *J Child Psychol Psychiatry*. 2019 Sep;60(9):988-997. doi: 10.1111/jcpp.13032. Epub 2019 Mar 25. PMID: 30908652.

Baribeau DA, **Dupuis A**, Paton TA, Hammill C, Scherer SW, Schachar RJ, Arnold PD, Szatmari P, Nicolson R, Georgiades S, Crosbie J, Brian J, Iaboni A, Kushki A, Lerch JP, Anagnostou E. Structural neuroimaging correlates of social deficits are similar in autism spectrum disorder and attention-deficit/hyperactivity disorder: analysis from the POND Network. *Transl Psychiatry*. 2019 Feb 4;9(1):72. doi: 10.1038/s41398-019-0382-0.

Basak S, Steinberg A, Campbell A, **Dupuis A**, Chen S, Dayan AB, Dello S, Hamilton J. All Aboard Meal Train: Can Child-Friendly Menu Labeling Promote Healthier Choices in Hospitals? *J Pediatr*. 2019 Jan;204:59-65.e3. doi: 10.1016/j.jpeds.2018.08.073. Epub 2018 Sep 28.

Capano L, **Dupuis A**, Brian J, Mankad D, Genore L, Hastie Adams R, Smile S, Lui T, Odrobina D, Foster JA, Anagnostou E. A pilot dose finding study of pioglitazone in autistic children. *Mol Autism*. 2018 Nov 26;9:59. doi: 10.1186/s13229-018-0241-5. eCollection 2018.

Burton CL, Park LS, Corfield EC, Forget-Dubois N, **Dupuis A**, Sinopoli VM, Shan J, Goodale T, Shaheen SM, Crosbie J, Schachar RJ, Arnold PD. Heritability of obsessive-compulsive trait dimensions in youth from the general population. *Transl Psychiatry*. 2018 Sep 18;8(1):191. doi: 10.1038/s41398-018-0249-9.

Baribeau DA, **Dupuis A**, Paton TA, Scherer SW, Schachar RJ, Arnold PD, Szatmari P, Nicolson R, Georgiades S, Crosbie J, Brian J, Iaboni A, Lerch J, Anagnostou E. Oxytocin Receptor Polymorphisms are Differentially Associated with Social Abilities across Neurodevelopmental Disorders. *Sci Rep*. 2017 Sep 14;7(1):11618. doi: 10.1038/s41598-017-10821-0.

van der Plas E., **Dupuis A.**, Arnold P., Crosbie J., Schachar R. Association of autism spectrum disorder with obsessive-compulsive and attention-deficit/hyperactivity traits in a community sample. *J Autism Dev Disord*. 2016 Sep;46(9):3115-25. doi: 10.1007/s10803-016-2853-y.

**Dupuis A**, Keenan K, Ooi CY, Dorfman R, Sontag MK, Naehrlich L, Castellani C, Strug L, Rommens J, Gonska T. Prevalence of Meconium ileus (MIP) marks the severity of mutations of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) gene. *Genet Med*. 2016 Apr;18(4):333-40

Park LS, Burton CL, **Dupuis A**, Shan J, Storch EA, Crosbie J, Schachar RJ, Arnold PD. The Toronto Obsessive-Compulsive Scale: Psychometrics of a Dimensional Measure of Obsessive-Compulsive Traits. *J Am Acad Child Adolesc Psychiatry*. 2016 Apr;55(4):310-318

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Burton CL, Crosbie J, **Dupuis A**, Mathews CA, Soreni N, Schachar R, Arnold PD. Clinical Correlates of Hoarding With and Without Comorbid Obsessive-Compulsive Symptoms in a Community Pediatric Sample. *J Am Acad Child Adolesc Psychiatry*. 2016 Feb;55(2):114-121

Panju S, Brian J, **Dupuis A**, Anagnostou E, Kushki A. Atypical sympathetic arousal in children with autism spectrum disorder and its association with anxiety symptomatology. *Mol Autism*. 2015 Dec 11;6:64

Baribeau DA, Doyle-Thomas KA, **Dupuis A**, Iaboni A, Crosbie J, McGinn H, Arnold PD, Brian J, Kushki A, Nicolson R, Schachar RJ, Soreni N, Szatmari P, Anagnostou E. Examining and comparing social perception abilities across childhood-onset neurodevelopmental disorders. *J Am Acad Child Adolesc Psychiatry*. 2015 Jun;54(6):479-486.

Mankad D, **Dupuis A**, Smile S, Roberts W, Brian J, Lui T, Genore L, Zaghoul D, Iaboni A, Marcon PM, Anagnostou E. A randomized, placebo controlled trial of omega-3 fatty acids in the treatment of young children with autism. *Mol Autism*. 2015 Mar 21;6:18.

Banihani R, Smile S, Yoon G, **Dupuis A**, Mosleh M, Snider A, McAdam L. Cognitive and Neurobehavioral Profile in Boys with Duchenne Muscular Dystrophy. *J Child Neurol*. 2015 Oct;30(11):1472-82

Stinson JN, Jibb LA, Laloo C, Feldman BM, McGrath PJ, Petroz GC, Streiner D, **Dupuis A**, Gill N, Stevens BJ. Comparison of Average Weekly Pain Using Recalled Paper and Momentary Assessment Electronic Diary Reports in Children with Arthritis. *Clin J Pain*. 2014 Dec;30(12):1044-50.

Anagnostou E, Soorya L, Brian J, **Dupuis A**, Mankad D, Smile S, Jacob S. Intranasal oxytocin in the treatment of autism spectrum disorders: A review of literature and early safety and efficacy data in youth. *Brain Res*. 2014 Sep 11;1580:188-98

Kushki A, Brian J, **Dupuis A**, Anagnostou E. Functional autonomic nervous system profile in children with autism spectrum disorder. *Mol Autism*. 2014 Jul 4;5:39

Ooi CY, **Dupuis A**, Gonska T, Ellis L, Ni A, Jarvi K, Martin S, Ray P, Steele L, Kortan P, Dorfman R, Solomon M, Zielenski J, Corey M, Tullis E, Durie P. Does Integration of Different Ion Channel Measurements Improve Diagnostic Performance in Cystic Fibrosis? *Ann Am Thorac Soc*. 2014 May;11(4):562-70.

Wright L, Lipszyc J, **Dupuis A**, Thayapararajah SW, Schachar R. Response inhibition and psychopathology: A meta-analysis of go/no-go task performance. *J Abnorm Psychol*. 2014 May;123(2):429-39.

Tan W, Wright T, **Dupuis A**, Lakhani E, Westall C. Localizing Functional Damage in the Neural Retina of Adolescents and Young Adults with Type 1 Diabetes. *Invest Ophthalmol Vis Sci*. 2014 Apr 15;55(4):2432-41.

Ooi CY, **Dupuis A**, Ellis L, Jarvi K, Martin S, Ray PN, Steele L, Kortan P, Gonska T, Dorfman R, Solomon M, Zielenski J, Corey M, Tullis E, Durie P. Does extensive genotyping and nasal potential difference testing clarify the diagnosis of cystic fibrosis among patients with single-organ manifestations of cystic fibrosis? *Thorax* 2014 Mar;69(3):254-60.

Aiyar L, Shuman C, Hayeems R, **Dupuis A**, Pu S, Wodak S, Chitayat D, Velsher L, Davies J. Risk estimates for complex disorders: comparing personal genome testing and family history.

Genet Med. 2014 Mar;16(3):231-7.

Kushki A, Drumm E, Mobarak MP, Tanel N, **Dupuis A**, Chau T, Anagnostou E. Investigating the Autonomic Nervous System Response to Anxiety in Children with Autism Spectrum Disorders PLoS One. 2013;8(4).

Gassas A, Sung L, **Dupuis A**, Schechter T, Egeler M, Ali M. Acute gut GVHD in children: does skin involvement matter? *Bone Marrow Transplant*. 2013 Aug;48(8):1129-32

Lee TC, **Dupuis A**, Jones E, Guberman C, Herbert M, Manassis K. Effects of age and subtype on emotional recognition in children with anxiety disorders: implications for cognitive-behavioural therapy. *Can J Psychiatry*. 2013 May;58(5):283-90.

Birken CS, Khambalia A, **Dupuis A**, Pastor A, Lee M, Padavattan K, Mekky M, Odame I, Parkin PC. Morphine Is Associated With Acute Chest Syndrome in Children Hospitalized With Sickle Cell Disease. *Hospital Pediatrics* April 2013;3(2), 149-155.

Crosbie J, Arnold P, Paterson A, Swanson J, **Dupuis A**, Li X, Shan J, Goodale T, Tam C, Strug LJ, Schachar RJ. Response inhibition and ADHD traits: correlates and heritability in a community sample. *J Abnorm Child Psychol*. 2013 Apr;41(3):497-507

Smile S, **Dupuis A**, MacArthur C, Roberts W, Fehlings D. Autism spectrum disorder phenotype in children with ambulatory cerebral palsy: A descriptive cross-sectional study. *Research in Autism Spectrum Disorders* Feb 2013;7(2), 391-397.

Manassis K, Mendlowitz S, **Dupuis A**, Kreindler D, Lumsden C, Monga S, Guberman C. Mood assessment via animated characters: An instrument to access and evaluate emotions in young children. *OJPsych* Feb 2013;3(1A).

Quinton P, Molyneux L, Ip W, **Dupuis A**, Avolio J, Tullis E, Conrad D, Shamsuddin AK, Durie P, Gonska T. Beta-adrenergic Sweat Secretion as a Diagnostic Test for Cystic Fibrosis. *Am J Respir Crit Care Med*. 2012 Oct 15;186(8):732-9

Ooi CY, **Dupuis A**, Ellis L, Jarvi K, Martin S, Gonska T, Dorfman R, Kortan P, Solomon M, Tullis E, Durie PR. Comparing the American and European diagnostic guidelines for cystic fibrosis: same disease, different language? *Thorax*. 2012 Jul;67(7):618-24

Gonska T, Choi P, Stephenson A, Ellis L, Martin S, Solomon M, **Dupuis A**, Dorfman R, Zielenski J, Ooi CY, Weiser W, Durie PR, Tullis E. Role of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) in patients with chronic sinopulmonary disease. *Chest*. 2012 Oct;142(4):996-1004.

Tse R, Marcus JR, Curtis CG, **Dupuis A**, Clarke HM. Suprascapular nerve reconstruction in obstetrical brachial plexus palsy: spinal accessory nerve transfer versus C5 root grafting. *Plast Reconstr Surg*. 2011 Jun;127(6):2391-6.

Stinson JN, Stevens BJ, Feldman BM, Streiner DL, McGrath PJ, **Dupuis A**, Gill N, Petroz GC. Using an electronic pain diary to better understand pain in children and adolescents with arthritis. *Pain Management*. March 2011;1(2):127-37.

Andrysek J, Christensen J, **Dupuis A**. Factors influencing evidence-based practice in prosthetics and orthotics. *Prosthet Orthot Int*. 2011 Mar;35(1):30-8.

Amin R, Lam M, **Dupuis A**, Ratjen F. The effect of early *Pseudomonas aeruginosa* treatment on lung function in pediatric cystic fibrosis. *Pediatr Pulmonol*. 2011 Jun;46(6):554-8

Sonnenberg LK, **Dupuis A**, Rumney PG. Preschool traumatic brain injury and its impact on social development at eight years of age. *Brain Inj.* 2010;24(7-8):1003-7.

Klejman S, Andrysek J, **Dupuis A**, Wright V. Test-retest reliability of discrete gait parameters in children with cerebral palsy. *Arch Phys Med Rehabil.* 2010 May;91(5):781-7.

Sterescu AE, Jackson R, **Dupuis A**, Hanna A, Wilson DC, Tullis E, Pencharz PB. Natural history of glucose intolerance in patients with cystic fibrosis: ten year prospective observation program. *J Pediatr.* 2010 Apr;156(4):613-7.

Kerr EN, Ellis L, **Dupuis A**, Rommens JM, Durie PR. The behavioral phenotype of school-age children with Shwachman Diamond Syndrome indicates neurocognitive dysfunction with loss of SBDS gene function. *J Pediatr.* 2010 Mar;156(3):433-8.

Sharan S, **Dupuis A**, Hébert D, Levin AV. The effect of oral acetazolamide on weight gain in children. *Can J Ophthalmology* 2010 Feb;45(1):41-5.

Amin R, **Dupuis A**, Aaron SD, Ratjen F. The effect of chronic infection with *Aspergillus fumigatus* on lung function and hospitalization in cystic fibrosis patients. *Chest.* 2010 Jan;137(1):171-6.

Rhodes B, Tullis E, Pencharz PB, Brotherwood M, **Dupuis A**, Stephenson A. Prevalence of dyslipidemia in adults with cystic fibrosis. *J Cyst Fibros* 2010 Jan;9(1):24-8.

Stevens, B., McGrath, P., Ballantyne, M., Yamada, J., **Dupuis, A.**, Gibbins, S., Franck, L., Finley, A., Howlett, A., Johnston, C., O'Brien, K., Ohlsson, A. Influence of risk of neurological impairment and procedure invasiveness on health professionals' assessment and management of procedural pain in neonates. *Eur J Pain.* 2010 Aug;14(7):735-41

Afzal S, Ishaqi MK, **Dupuis A**, Doyle J, Gassas A. Early lymphocyte recovery after allogeneic hematopoietic SCT is associated with significant GVL effect in pediatric ALL but not acute myelogenous leukemia – Update study. *Bone Marrow Transplant.* 2009 Dec;44(12):799-804.

Ishaqi MK, Afzal S, **Dupuis A**, Doyle J, Gassas A. Outcome of allogeneic hematopoietic stem cell transplantation for children with acute myelogenous leukemia in second complete remission: Single center experience. *Pediatr Transplant.* 2009 Dec;13(8):999-1003.

Khambalia AZ, O'Connor DL, MacArthur C, **Dupuis A**, Zlotkin SH. Periconceptional iron supplementation does not reduce anemia or improve iron status among pregnant women in rural Bangladesh *Am J Clin Nut* 2009 Nov;90(5):1295-302.

Stevens B, McGrath P, **Dupuis A**, Gibbins S, Beyene J, Breau L, Camfield C, Allen Finley G, Franck LS, Howlett A, Johnston C, McKeever P, O'Brien K, Ohlsson A, Yamada J. Indicators of pain in neonates at risk for neurological impairment. *J Adv Nurs.* 2009 Feb;65(2):285-96.

Pei Y, Obaji J, **Dupuis A**, Paterson AD, Magistrini R, Dicks E, Parfrey P, Cramer B, Coto E, Torra R, San Millan JL, Gibson R, Breuning M, Peters D, Ravine D. Unified Criteria for Ultrasonographic Diagnosis of ADPKD. *J Am Soc Nephrol.* 2009 Jan;20(1):205-12.

Gassas A, Afzal S, Ishaqi MK, Finkelstein-Shechter T, Rojas M, **Dupuis A**, Sung L, Doyle J. Pediatric standard-risk AML with fully matched sibling donors: to transplant in first CR or not? *Bone Marrow Transplant.* 2008 Sep;42(6):393-6.

Gibbins S, Stevens B, McGrath P, **Dupuis A**, Yamada J, Beyene J, Breau L, Camfield C, Finley GA, Franck L, Johnston C, McKeever P, O'Brien K, Ohlsson A. Changes in physiological and

behavioural pain indicators over time in preterm and term infants at risk for neurologic impairment. *Early Hum Dev.* 2008 Nov;84(11):731-8.

Gassas A, Ishaqi MK, Afzal S, Finkelstein-Shechter T, **Dupuis A**, Doyle J. A comparison of the outcomes of children with acute myelogenous leukemia in either first or second complete remission (CR1 vs CR2) following allogeneic hematopoietic stem cell transplantation at a single transplant center. *Bone Marrow Transplant.* 2008 Jun;41(11):941-5.

Hawkes M, Campisi P, Zafar R, Punthakee X, **Dupuis A**, Forte V, Ford-Jones EL. Time course of juvenile onset recurrent respiratory papillomatosis caused by human papillomavirus. *Pediatr Infect Dis J.* 2008 Feb;27(2): 149-154.

Gassas A, Ishaqi MK, Afzal S, **Dupuis A**, Doyle J. Outcome of haematopoietic stem cell transplantation for paediatric acute lymphoblastic leukaemia in third complete remission: a vital role for graft-versus-host-disease/ graft-versus-leukaemia effect in survival. *Br J Haematol.* 2008 Jan;140(1):86-9.

Ishaqi MK, Afzal S, **Dupuis A**, Doyle J, Gassas A. Early lymphocyte recovery post-allogeneic hematopoietic stem cell transplantation is associated with significant graft-versus-leukemia effect without increase in graft-versus-host disease in pediatric acute lymphoblastic leukemia. *Bone Marrow Transplant.* 2008 Feb;41(3):245-52.

Lucco KL, Brown CM, Spitzer R, Stephens D, **Dupuis A**, Kives S, Allen L. Psychosexual and Functional Outcomes After Creation of a Neovagina Via Laparoscopic Davydov in Patients with Vaginal Agenesis. *J Ped Adol Gynecol* 2008 Apr;21(2):61-62.

Stinson JN, Stevens BJ, Feldman BM, Streiner D, McGrath PJ, **Dupuis A**, Gill N, Petroz GC. Construct validity of a multidimensional electronic pain diary for adolescents with arthritis. *Pain.* 2008 Jun;136(3):281-92.

Stevens B, Franck L, Gibbins S, McGrath PJ, **Dupuis A**, Yamada J, Beyene J, Camfield C, Finley GA, Johnston C, O'Brien K, Ohlsson A. Determining the structure of acute pain responses in vulnerable neonates. *Can J Nurs Res.* 2007 Jun;39(2):32-47.

Wilchanski M, **Dupuis A**, Ellis L, Jarvi K, Zielenski J, Tullis E, Martin S, Corey M, Tsui LC, Durie P. Mutations in Cystic Fibrosis Transmembrane Regulator Gene and in vivo Transepithelial Potentials. *Am J Respir Crit Care Med.* 2006 Oct 1;174(7):787-94.

Cantin AM, Hanrahan JW, Bilodeau G, Ellis L, **Dupuis A**, Liao J, Zielenski J, Durie P. Cystic Fibrosis Transmembrane Conductance Regulator Function is Suppressed in Cigarette Smokers. *Am J Respir Care Med.* 2006 May 15;173(10): 1139-44

Bishop MD, Freedman SD, Zielenski J, Ahmed N, **Dupuis A**, Martin S, Ellis L, Shea J, Hopper I, Corey M, Kortan P, Haber G, Ross C, Tzountzouris J, Steele L, Ray PN, Tsui LC, Durie PR. The cystic fibrosis transmembrane conductance regulator gene and ion channel function in patients with idiopathic pancreatitis. *Hum Genet.* 2005 Dupuis;118(3-4):372-81.

Clarke DF, Roberts W, Daraksan M, **Dupuis A**, McCabe J, Wood H, Snead OC 3<sup>rd</sup>, Weiss SK. The prevalence of autistic spectrum disorder in children surveyed in a tertiary care epilepsy clinic. *Epilepsia.* 2005 Dec;46(12):1970-7.

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**Dupuis A**, Hamilton D, Cole DE, Corey M. Cystic Fibrosis Birth Rates in Canada: A Decreasing Trend since the Onset of Genetic Testing. *J Ped.* 2005 Sep;147(3):312-5.

Alothman GA, Alsaadi MM, Ho BL, Ho SL, **Dupuis A**, Corey M, Coates AL. Evaluation of bronchial constriction in children with cystic fibrosis after inhaling two different preparations of tobramycin. *Chest.* 2002;122(3):930-4.

Ip WF, **Dupuis A**, Ellis L, Beharry S, Morrison J, Stormon M, Corey M, Rommens JM, Durie PR. Serum pancreatic enzymes define the pancreatic phenotype in patients with Shwachman Diamond syndrome. *J Ped.* 2002;141:259-65.

Schuh S, Reisman J, Alshehri M, **Dupuis A**, Corey M, Arseneault R, Alothman G, Tennis O, Canny G. A Comparison of inhaled fluticasone propionate and oral prednisone for children with acute asthma. *New Engl J Med.* 2000;343(10):689-94.

Gilljam M, Antoniou M, Shin J, **Dupuis A**, Corey M, Tullis E. Pregnancy in cystic fibrosis: fetal and maternal outcome. *Chest* 2000;118(1):85-91.

Durno C, Sherman P, Williams T, Shuckett B, **Dupuis A**, Griffiths A. Magnetic resonance imaging to distinguish the type and severity of pediatric inflammatory bowel disease. *J Pediatr Gastroenterol Nutr* 2000;30(2):170-4.

Durno C, Sherman P, Harris K, Smith C, **Dupuis A**, Shandling B, Wesson D, Filler R, Superina R, Griffiths A. Outcome after ileoanal anastomosis in pediatric patients with ulcerative colitis. *J Pediatr Gastroenterol Nutr* 1998;27(5):501-7.

Harding GC, LeBlanc RJ, Vass WP, Addison RF, Hargrave BT, Pearre S, **Dupuis A**, Brodie PF. Bioaccumulation of polychlorinated biphenyls (PCBs) in the marine pelagic food web, based on a seasonal study in the southern Gulf of St. Lawrence, 1976-1977. *Marine Chem* 1997;56(3-4):145-179.