

CURRICULUM VITAE

CAROL MACMILLAN, MD
Department of Pediatrics M/C 856
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Education

Post-Doctoral Fellow, Molecular Neurogenetics Montreal Neurological Institute, Montreal, Canada	1994 - 1996
Residency in Pediatric Neurology McGill University, Montreal, Canada	1990 - 1993
Residency in Pediatrics McGill University, Montreal, Canada	1987 - 1990
M. D. Program McMaster University, Hamilton, Canada	1984 - 1987
Graduate Experimental Psychology Program Concordia University, Montreal, Canada	1982 - 1984
Undergraduate Psychology Program McGill University, Montreal, Canada	1980 - 1982
Undergraduate Psychology Program McMaster University, Hamilton, Canada	1978 - 1980

Degrees

Doctor of Medicine McMaster University, Hamilton, Canada	1987
Master of Arts, Physiological Psychology Concordia University, Montreal, Canada	1985
Bachelor of Arts, Psychology McGill University, Montreal, Canada	1982

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Scholarships and Fellowships

Medical Research Council of Canada Fellowship	1994 – 1996
Fonds de la Recherche en Santé du Québec Fellowship (Declined)	1994
Jeanne Timmins Costello Fellowship	1994
Texaco Canada Scholarship	1978 – 1982
McMaster University Bursar’s Scholarship	1978 - 1979

Professional Certifications

Diplomate of The American Board of Psychiatry and Neurology Special Qualifications in Child Neurology	1998
Specialist Certificate in Neurology The Royal College of Physicians and Surgeons of Canada	1993
Specialist Certificate in Neurology Corporation Professionnelle des Médecins du Québec	1993
Fellow of the American Board of Pediatrics	1993
Fellow of The Royal College of Physicians and Surgeons of Canada	1992
Specialist Certificate in Pediatrics The Royal College of Physicians and Surgeons of Canada	1991
Diplomate of The American Board of Pediatrics	1990
Licentiate of the Medical Council of Canada	1988

Awards, Honors

Certificat d' Excellence Concours des Résidents L' Association des Neurologues de Québec	1993
Star Faculty Member University of Illinois at Chicago	1999
Included in "Guide to America's Top Pediatricians" Consumer's Research Council of America	2004 - 2005 2005 - 2006 2006 - 2007 2007 - 2008
"Caught in the act" for demonstrating acts of excellent service University of Illinois at Chicago	2007
Faculty Teaching Award (shared) Department of Pediatrics, University of Illinois at Chicago	2008

Professional Memberships

American Medical Association	1996 - present
Illinois Medical Society	1996 - present
Chicago Medical Society	1996 - present
Child Neurology Society	1995 - present
Canadian Association of Child Neurology	1995 - present
L'Association des Neurologues du Québec	1994 - present
Canadian Neurological Society	1993 - present
American Academy of Neurology	1992 - present
American Academy of Pediatrics	1992 - present
Royal College of Physicians and Surgeons of Canada	1992 - present
Corporation Professionnelle des Médecins du Québec	1988 - present
College of Physicians and Surgeons of Ontario	1988 - present

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University Positions

Associate Professor, 2003 - present
Departments of Neurology / Rehabilitation and Pediatrics
University of Illinois at Chicago

Assistant Professor, 1996 - 2003
Departments of Neurology / Rehabilitation and Pediatrics
University of Illinois at Chicago

Chief Resident, Neurology 1992
Montreal Neurological Hospital

Hospital Appointments

Attending Staff Neurologist, 2007 - present
Department of Pediatrics
University of Illinois at Chicago

Attending Staff Neurologist, 1996 - 2007
Department of Neurology and Rehabilitation
University of Illinois at Chicago

Clinical Appointments

Director, Division of Pediatric Neurology 2007 - present
Department of Pediatrics
University of Illinois at Chicago

Director, Division of Pediatric Neurology 2005 - 2007
Department of Neurology and Rehabilitation
University of Illinois at Chicago

Illinois Provider for Children with Disabilities 1997 - present
Division of Specialized Care for Children
University of Illinois at Chicago

Departmental, Hospital and University Committees

University of Illinois Senate 2004 - 2007

Research Committee 2000 - 2007
Department of Neurology, University of Illinois at Chicago

Education Committee 2000 - 2007
Department of Neurology, University of Illinois at Chicago

Institutional Review Board 1 1999 - 2001
College of Medicine, University of Illinois at Chicago

Committee on Research, 1997 - 2000
College of Medicine, University of Illinois at Chicago

Committee for the Development of Structured Patient Problems, 1997
College of Medicine, University of Illinois at Chicago

Refereed Journal Review Boards

Neurology, Ad hoc Reviewer 1998, 1999, 2002
American Journal of Medical Genetics, Ad hoc Reviewer 2002

Invited Reviewer

U.S. Civilian Research and Development Foundation (CRDF) 2003
Cooperative Grants Program competition

Service

Examiner, American Board of Psychiatry and Neurology 2003

Publications

Articles:

Miller LJ, Bishop JR, Fischer JH, Geller SE, Macmillan C. Balancing risks: Dosing strategies for antidepressants near the end of pregnancy. *Journal of Clinical Psychiatry*, 2008;69:323-324

Llorente AM, Brouwers P, Thompson B, Cheng, I, Macmillan C, LaRussa P, Mofenson L, Blasini I, Chase C. Effects of polymorphisms of chemokine receptors on neurodevelopment and the onset of encephalopathy in children with perinatal HIV-1 infection. *Applied Neuropsychology*, 2006;13:180-189

Laberge AM, Jomphe M, Houde L, Vezina H, Tremblay M, Desjardins B, Labuda D, St-Hilaire D, Macmillan C, Shoubridge E, Brais B. A "*Fille du Roy*" introduced the T14484C Leber's Hereditary Optic Neuropathy mutation in French Canadians. *American Journal of Human Genetics* 2005;77:313-317.

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Freisinger P, Horvath R, Peters J, Macmillan C, Jaksch M. Reversion of hypertrophic cardiomyopathy in a patient with deficiency of the mitochondrial copper binding protein Sco2: Potential effect of copper. *Journal of Inherited Metabolic Disorders* 2004; 27:67-79.

Sweeney JA, Takarae Y, Macmillan C, Luna B, Minshew NJ. Eye movement in neurodevelopmental disorders. *Current Opinion in Neurology* 2004; 17: 37-42.

Jaksch, M, Horvath R, Horn N, Auer DP, Macmillan C, Peters J, Gerbitz K-D, Kraegeloh-Mann I, Lochmueller H, Shoubridge EA, Freisinger P. Homozygosity of the G1541A Mutation in *SCO2* is Associated with a Novel Phenotype. *Neurology*, 2001;57:1440-1446.

Macmillan C, Magder LS, Brouwers P, Chase C, Hittelman J, Lasky T, Malee K, Mellins CA, Velez – Borrás J for the Women and Infants Transmission Study. Head Growth and Neurodevelopment of Infants Born to HIV-1 Infected Drug – Using Women. *Neurology*, 2001;57:1402-1410.

Buzzini SR, Macmillan C. Gamma-Sarcoglycanopathy in two Palestinian-American siblings. *Clinical Pediatrics*, 2001;40:115-117.

Smith RE, Malee K, Charurat M, Magder L, Macmillan C, Mellins C for the Women and Infants Transmission Study. Neurodevelopmental outcome of HIV-1 infected children with early and late positive HIV-1 cultures. *Pediatric Infectious Disease Journal* 2000;19:862-871

Macmillan C, Johns TA, Fu K, Shoubridge EA. The Predominance of the T14484C Mutation in French Canadian families is due to a founder effect. *American Journal of Human Genetics*, 2000;66:332-335

Zhu Z, Yao J, Johns T, Fu K, De Bie I, Macmillan C, Cuthbert AP, Newbold RF, Wang J, Chevrette M, Brown GK, Brown RM, Shoubridge EA. SURF1, encoding a factor involved in the biogenesis of cytochrome c oxidase, is mutated in Leigh syndrome. *Nature Genetics*, 1998;20:337-43.

Macmillan C. Genetics and developmental delay. *Seminars in Pediatric Neurology*, 1998;5:39-44.

Macmillan C, Kirkham T, Fu K, Allison V, Andermann E, Chitayat D, Fortier D, Gans M, Hare H, Quercia N, Zackon D, Shoubridge EA. Pedigree analysis of French Canadian families with T14484C Leber's Hereditary Optic Neuropathy. *Neurology*, 1998;50:417-422.

Petrof B, Lochmueller H, Massie B, Yang L, Macmillan C, Nalbantoglu J, Karpati G. Impairments of force generation after adenovirus-mediated gene transfer to muscle is alleviated by adenoviral gene inactivation and host CD8+ T cell deficiency. *Human Gene Therapy* 1996;7:1883-1826.

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Macmillan C, Shoubridge E. Mitochondrial DNA depletion: Estimation of prevalence in a pediatric population referred for neurologic evaluation. *Pediatric Neurology* 1996;14:203-210.

Macmillan C, Lach B, Shoubridge E. Variation in proportion of MELAS tRNA^{Leu(UUR)} in symptomatic relatives: Meiotic vs. mitotic segregation. *Neurology* 1993; 43: 1586-1590.

Macmillan C, Simantirakis P, Shizgal P. Self-stimulation of the lateral hypothalamus and substantia nigra: Excitability characteristics of the directly stimulated substrates. *Physiology and Behavior* 1985;35:711-723.

Chapters:

Macmillan C. Problemy neurologiczne noworodow (Neurology of the Neonate). In: Gadzinowski J, Vidyasagar D eds. *Neonatologia*. Poznan (Poland): Osrodek Wydawnictw Naukowych, 2000: 361 – 374.

Abstracts:

Macmillan C, Takarae Y, Luna B, Minshew NJ, Sweeney JA. Behavioral and fMRI analyses of visual motor perception in autism. *Annals of Neurology* 2007;62:S11

Macmillan C, Nowinski CV, Kay M, Scudder C, Luna B, Minshew NJ, Sweeney JA. Impaired saccade adaptation in autism. *Annals of Neurology* 2006;60:S131

Macmillan C, Takarae Y, Luna B, Minshew N, Sweeney J. Functional MRI study of oculomotor deficits in autism. *Annals of Neurology* 2005;58:S9

Handelsman E, Thompson B, Li D, Macmillan C, Mellins C, Moye J, Paul M, Smeriglio V. Long-term growth and developmental outcomes in children with in utero cocaine and opiate exposure born to HIV-infected women. 10th Conference on Retroviruses and Opportunistic Infections (CROI), Feb 2003, Boston, MA.

Macmillan C, Magder L for the Women and Infants Transmission Study. Head growth and neurodevelopment of infants born to HIV-infected drug using women. *Neurology* 2000;54S3:P06.076.

Macmillan C, Johns TA, Fu K, Shoubridge E. The predominance of the T14484C mutation in French Canadian LHON families is due to a founder effect. *Neurology* 1998;50S:P04.116.

Macmillan C, Kirkham T, Fu K, Allison V, Andermann E, Chitayat D, Fortier D, Gans M, Hare H, Zackon D, Shoubridge E. Pedigree analysis of the T14484C mitochondrial DNA mutation in French Canadian families with Leber's hereditary optic neuropathy. *Neurology* 1997;48S:P04.078.

Macmillan C, Holland P, Genge A, Karpati G. Merosin deficient muscular dystrophy: Estimation of prevalence in congenital muscular dystrophy. *Neurology* 1996;46S:S08.004.

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Ivkov N, Alperin N, Nijensohn E, Macmillan C. MELAS: Correlation of clinical features, mutant mtDNA proportion, MRI and MRS. Poster presented to the Chicago Chapter of the Society for Neuroscience, 1996.

Macmillan C, Shoubridge E. Mitochondrial DNA depletion: Estimation of prevalence in a pediatric population referred for neurologic evaluation. Canadian Journal of Neurological Sciences 1995;22S:F5.

Macmillan C, Shoubridge E. Mitochondrial DNA depletion: Estimation of prevalence in a pediatric population referred for neurologic evaluation. Poster presented to the International Congress on Human Mitochondrial Pathology, 1995.

Macmillan C, Shoubridge E. Expression cloning of cDNAs for Oxidative Phosphorylation Defects. Poster presented to the Muscular Dystrophy Association of Canada, 1994.

Macmillan C, Lach B, Shoubridge E. Variable distribution of mutant mitochondrial DNAs (tRNA^{Leu 3243}) in tissues of symptomatic relatives with MELAS: The role of mitotic segregation. Neurology 1993;43S:P82.

Macmillan C, Lach B, Shoubridge E. Variable distribution of mutant mitochondrial DNAs (tRNA^{Leu 3243}) in tissues of symptomatic relatives with MELAS: The role of mitotic segregation. Poster presented to L'association des Neurologues du Quebec, 1993.

Macmillan C, Williams R. Recurrent suppurative thyroiditis from a branchial cleft remnant. Poster presented to the Canadian Pediatric Society, 1989.

Macmillan C, Shizgal P. Self-stimulation of the lateral hypothalamus and substantia nigra: Excitability characteristics of the directly stimulated substrates. Poster presented to the Canadian Psychological Association, 1983.

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Invited Lectures

Brain development and Global Developmental Delay. Medical Advances in Early Intervention, Chicago, March 2008

Brain development. Medical Advances in Early Intervention, Chicago, June 2007

Brain imaging and brain development. Medical Advances in Early Intervention, Chicago, April 2006

Leber's Hereditary Optic Neuropathy and Mitochondrial Disease. Grand Rounds, Department of Pediatrics, University of Chicago, Chicago, March 2003

The Child with Epilepsy. Spring Education Program, Illinois Society of Pediatric Dentists, April 2002

Mitochondrial Disease. Neurology Grand Rounds. Northwestern University, January 2002

Genetics of Leber's Hereditary Optic Neuropathy. Pediatric Ophthalmology and Adult Strabismus Symposium, University of Illinois at Chicago, September, 1999

Office Management of Seizures. Pediatrics Session, Midwest Clinical Conference, Chicago, February 1999

Pediatric Seizure Disorders. Pediatric Grand Rounds, Michael Reese Hospital, Chicago, December 1997

Pediatric Muscular Dystrophy. Pediatric Grand Rounds, Cook County Hospital, Chicago, May 1997

Pediatric Mitochondrial Diseases. Pediatric Grand Rounds, Michael Reese Hospital, Chicago, January 1997