

Date Submitted: 2021-01-13 13:03:22

Confirmation Number: 1263663

Template: CIHR Biosketch

Dr. Graham Sinclair

Correspondence language: English

Sex: Male

Date of Birth: 3/31

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

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The primary information is denoted by (*)

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Protected when completed

Dr. Graham Sinclair

Degrees

2004/9 - 2008/11	Post-doctorate, CCMG Fellowship - Fellow, Children's & Women's Health Centre of British Columbia Degree Status: Completed
2001/10 - 2004/8	Post-doctorate, Postdoctoral Fellowship, University of British Columbia Degree Status: Completed
1996/1 - 2001/9	Doctorate, PhD, University of Victoria Degree Status: Completed
1991/9 - 1995/4	Bachelor's, Bachelor of Science, University of British Columbia Degree Status: Completed

Credentials

2007/10	Biochemical Geneticist, Canadian College Of Medical Geneticists
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Recognitions

2013/5 - 2014/4	Department of Pathology and Laboratory Medicine Excellence in Service Award University of British Columbia
2001/1 - 2002/1	Graduate Student Award for Excellence in Teaching University of Victoria

Employment

2017/2	Clinical Professor Pathology and Laboratory Medicine, Medicine, University of British Columbia
2012/10	Head, Clinical Research Program, Department of Pathology and Laboratory Medicine Pathology and Laboratory Medicine, Faculty of Medicine, BC Children's Hospital
2007/9	Clinical Laboratory Scientist Children's & Women's Health Centre of British Columbia
2013/11 - 2017/6	Clinical Associate Professor Pathology and Laboratory Medicine, Medicine, University of British Columbia
2010/11 - 2013/11	Clinical Assistant Professor Pathology and Laboratory Medicine, Medicine, University of British Columbia
2004/9 - 2007/9	Biochemical Genetics Fellow Children's & Women's Health Centre of British Columbia

2002/6 - 2004/8	Postdoctoral Fellow BC Research Institute for Children's and Women's Health
2001/10 - 2002/5	Postdoctoral Fellow Biology, Faculty of Science, University of Victoria
2000/12 - 2001/4	Senior Laboratory Instructor Biology, Faculty of Science, University of Victoria
1996/1 - 2000/4	Graduate Student Teaching Assistant Biology, Faculty of Science, University of Victoria

Affiliations

The primary affiliation is denoted by (*)

(*) 2007/9 Clinical Laboratory Scientist, Children's & Women's Health Centre of British Columbia

Research Funding History

Awarded [n=6]

2019/7 - 2020/12 Co-applicant	Investigating serum immunometabolomic profiles associated with pediatric kidney and heart transplant alloimmune outcomes Funding Sources: Canadian Donation and Transplant Research Program CDTRP Research Innovation Grant Total Funding - 30,000 Funding Competitive?: Yes Co-investigator : Atul Sharma; David Wishart; Katey Armstrong; Or Golan; Simon Urschel; Principal Investigator : Tom Blydt-Hansen
2019/4 - 2020/4 Co-applicant	Next generation urine metabolic profiling for the diagnosis and monitoring of inborn errors of metabolism Funding Sources: BC Children's Hospital Clinical Research Support Unit Total Funding - 25,000 Funding Competitive?: Yes Co-applicant : Joshua Dubland; Principal Applicant : Bojana Rakic
2018/1 - 2019/12 Co-applicant	T-cell function, susceptibility to infection, and a fatty acid oxidation variant common to coastal BC First Nations Funding Sources: BC Children's Hospital Research Institute Seed Grant Total Funding - 30,000 Funding Competitive?: Yes
2016/4 - 2018/4 Co-investigator	A systems biology approach to the delineation of phenotypic diversity in Gaucher Disease to improve treatment outcomes Funding Sources: Childhood Diseases Theme Seed Grant

	Total Funding - 30,000 Funding Competitive?: Yes Co-investigator : Clara van Karnebeek
2013/3 - 2018/3 Co-investigator	Expanding the number of treatable intellectual disabilities through an integrated "-omics" approach Funding Sources: Canadian Institutes of Health Research (CIHR) Operating Grant Total Funding - 773,000 Funding Competitive?: Yes Co-applicant : Sylvia Stockler; Wyeth Wasserman; Principal Applicant : Clara Van Karnebeek
2017/1 - 2018/1 Principal Investigator	The impact of preanalytical variables on a combined targeted/untargeted metabolomics assay for the investigation of inborn errors of metabolism Funding Sources: BC Children's Hospital Pathology Microgrant Total Funding - 5,000 Funding Competitive?: Yes

Publications

Journal Articles

1. Sinclair, G; McMahon, V; Schellenberg, A; Nelson, TN; Chilvers, M; Vallance, H. (2020). Performance of a three-tier (IRT-DNA-IRT) cysticfibrosis screening algorithm in British Columbia. *International Journal of Neonatal Screening*. 6(2): 46.
2. Or, G; Dyer, R; Sinclair, G; Blydt-Hansen, T. (2020). Investigating oxythiamine levels in children undergoing kidney transplantation and the risk of immediate post-operative metabolic and hemodynamic decompensation. *Pediatric Nephrology*. doi.org/10.1007/s004: Epub.
In Press
3. Fox, DA; Ronsley, R; Khowaja, AR; Vallance, H; Sinclair, G; Amed, S. (2020). Clinical impact and cost efficacy of newborn screening for congenital adrenal hyperplasia. *Journal of Pediatrics*. 220: 101-108.E2.
4. Vallance, H; Sinclair, G; Rakic, B; Stockler-Ipsiroglu, S. (2020). Diagnostic yield from routine metabolic screening tests in evaluation of global developmental delay and intellectual disability. *Paediatrics and Child Health*. pxa112: Epub.
In Press
5. Howell, R; Sinclair, G. (2020). A visit with Dr. Louis Woolf, recognizing his 100th birthday and his contributions to the diagnosis and treatment of phenylketonuria. *International Journal of Neonatal Screening*. 6(2): 45.
6. St-CYr, C; Lamers, Y; Casey, L; Saunders, M; Sinclair, G; Mattman, A. (2020). Vitamin B-12 Biomarkers Reviewed: Holotranscobalamin Allows Identification of Vitamin B12 Deficiency in Children with Short-Bowel Syndrome. *Current Developments in Nutrition*. 4(Suppl 2): 1839.
Published
7. Elias, IM; Sinclair, G; Blydt-Hansen, T. (2019). Acute Shoshin beriberi syndrome immediately post-kidney transplant with rapid recovery after thiamine administration. *Pediatric Transplant*. 23(5): 313493.
Published

8. Sinclair G, Collins S, Arbour L, Vallance H. (2019). The p.P479L variant in CPT1a is associated with infectious disease in a BC First Nation. *Paediatrics and Child Health*. 24(2): e111-e115.
Published
Refereed?: Yes
9. Mujica-Coopman, M; Tan, A; Schroder, TH; Sinclair, G; Vallance, H; Lamers, Y. (2019). Serum betaine and dimethylglycine are higher insouth Asian compared with European pregnant women in Canada, with betaine andtotal homocysteine inversely associated in early and mid-pregnancy, independentof ethnicity. *Journal of Nutrition*. 149(12): 2145-2155.
10. Schroder TH, Tan A, Mattman A, Sinclair G, Barr SI, Vallance HD, Lamers Y. (2019). Reference intervals for serum total vitamin B-12 and holotranscobalamin concentrations and their change points with methylmalonic acid to assess vitamin B-12 during early and mid-pregnancy.*Clinical Chemistry and Laboratory Medicine*. 25(11): 1790-1798.
Published
Refereed?: Yes
11. Almomen M, Sinclair G, Stockler-Ipsiroglu SG, Horvath GA. (2018). Pyruvate Carboxylase C: A rare cause of acute transient flaccid paralysis with ketoacidosis.*Neuropediatrics*. 49(6): 369-372.
Published
Refereed?: Yes
- [12.](#) Matthews AM, Blydt-Hansen I, Al-Jabri B, Andersen J, Tarailo-Graovac M, Price M, Selby K, Demos M, Connolly M, Drogermoller B, Shyr C, Mwenifumbo J, Elliot AM, Lee J, Chani A, Stockler S, Salvarinova R, Vallance H, Sinclair G, Ross CJ, Wasserman WW, McKinnon M, Horvath GA, Goetz H, van Karnebeek CD. (2018). Atypical cerebral palsy: genomics analysis enables precision medicine.*Genetics in Medicine*. Epub ahead of print: 0.
In Press
Refereed?: Yes
13. Linlea Armstrong, Maja Tarailo-Graovac, Graham Sinclair, Kimberly Seath; Wyeth Wasserman, Colin Ross, Clara van Karnebeek. (2017). A girl with developmental delay, seizures, ataxia, cranial nerve palsies, severe respiratory problems in infancy - Defining NDST1 deficiency. *American Journal of Human Genetics, Part A*. 173(3): 712-715.
Published
Refereed?: Yes
14. Guella I, McKenzie MB, Evans DM, Buerki SE, Toyota EB, Van Allen MI , Epilepsy Genomics Study, Suri M, Elmsilie F Deciphering Developmental Disorders Study, Simon MEH, van Gassen KLI, Heron D, Keren B, Nava C, Connolly MB, Demos M, Farrer MJ. (2017). De Novo mutations in YWHAG cause early-onst epilepsy. *American Journal of Human Genetics*. 101(2): 300-310.
Published
Refereed?: Yes
15. Bourne SC, Rownsend KN, Shyr C, Matthews A, Lear SA, Attariwala R, Lehman A, Wasserman WW, van Karnebeek C, Sinclair G, Vallance H, Gibson WT. (2017). Optic atrophy, cataracts, lipodystrophy/ lipoatrophy, and peripheral neuropathy caused by de novo OPA3 mutation.*Cold Spring Harbor molecular case studies*. 3(1): a001156.
Refereed?: Yes
16. Schroder TH, Sinclair G, Mattman A, Jung B, Barr SI, Vallance HD, Lamers Y. (2017). Pregnant women of South Asian ethnicity in Canada have substantially lower vitamin B12 status compared with pregnant women of European ethnicity. *British Journal of Nutrition*. 118(6): 454-462.
Published
Refereed?: Yes

17. Lehman A, Thouta S, Mancini GMS, Naidu S, van Slegtenhorst M, McWalter K, Person R, Mwenifumbo J, Salvarinova R, CAUSES Study, EPGEN Study, Guella I, McKenzie MB, Datta Am, Connolly MB, Kakhoran SM, Poburko D, Friedman JM, Farrer MJ, Demos M, Desai S, Claydon T. (2017). Loss-of-Function and Gain-of-Function mutations in KCNQ5 cause intellectual disability or epileptic encephalopathy. *American Journal of Human Genetics*. 101(1): 65-74.
Published
18. Graham Sinclair, Clara van Karnebeek, Manuel Ester, Francis Boyd, Sylvia Stockler, Hilary Vallance. (2016). A three-tier algorithm for guanidinoacetate methyltransferase (GAMT) deficiency newborn screening. *Molecular Genetics and Metabolism*. 118: 173-177.
Published
Refereed?: Yes
19. Theresa Schroder, Andre Mattman, Graham Sinclair, Hilary Vallance, Yvonne Lamers. (2016). Reference interval of methylmalonic acid concentrations in dried blood spots of healthy, term newborns to facilitate neonatal screening of vitamin B12 deficiency. *Clinical Biochemistry*. 49(13-14): 973-978.
Published
Refereed?: Yes
20. Graham Sinclair, Manuel Ester, Gabriella Horvath, Clara van Karnebeek, Sylvia Stockler-Ipsiroglu, Hilary Vallance. (2016). Integrated multianalyte second-tier testing for newborn screening for MSUD, IVA, and GAMT deficiencies. *Journal of inborn errors of metabolism and screening*. 4: 1-7.
Published
Refereed?: Yes
21. M Tarailo-Graovaca, C Shyr, C Ross, G Horvath, R Salvarinova, X Yea, L Zhang, A Bhavsar, J Lee, B Drögemöllera, M Abdelsayed, M Alfadhel, L Armstrong, M Connolly J Cameron, M Demos, T Dewan, J Dionne, M Evans, J Friedman, I Garber, S Lewis, J Ling, R Mandal, A Mattman, M McKinnon, A Michoulas, D Metzger, O Ogunbayo, B Rakic, JRozmus, P Ruben, B Sayson, S Santra, KSchultz, K Selby, P Shekel, S Sirrs, C Skrypyk, A Superti-Furga, S Turvey, M Van Allen, D Wishart, J Wu, J Wu, D Zafeiriou, L Kluijtmans, R Wevers, P Eydoux, A Lehman, H Vallance, S Stockler-Ipsiroglu, G Sinclair, W Wasserman, C van Karnebeek. (2016). Exome Sequencing and the Management of Neuro-metabolic Disorders. *New England Journal of Medicine*. 374(23): 2246-2255.
Published
22. Theresa Schroder, Andre Mattman Graham Sinclair, Hilary Vallance, Yvonne Lamers. (2016). Reference interval of methylmalonic acid in dried blood spots of healthy, term newborns for vitamin B-12 status assessment at birth. *Clinical Biochemistry*. 49(13-14): 973-978.
Published
Refereed?: Yes
23. van Karnebeek CD , Mohammadi T , Tsao N , Sinclair G , Sirrs S , Stockler S , Marra C. (2015). Health economic evaluation of plasma oxysterol screening in the diagnosis of Niemann-Pick Type C disease among intellectually disabled using discrete event simulation. *Molecular genetics and metabolism*. 114(2): 226-32.
Published
24. Tarailo-Graovac M , Sinclair G , Stockler-Ipsiroglu S , Van Allen M , Rozmus J , Shyr C , Biancheri R , Oh T , Sayson B , Lafek M , Ross CJ , Robinson WP , Wasserman WW , Rossi A , van Karnebeek CD. (2015). The genotypic and phenotypic spectrum of PIGA deficiency. *Orphanet journal of rare diseases*. 10: 23.
Published
25. Sirrs S , van Karnebeek CD , Peng X , Shyr C , Tarailo-Graovac M , Mandal R , Testa D , Dubin D , Carbonetti G , Glynn SE , Sayson B , Robinson WP , Han B , Wishart D , Ross CJ , Wasserman WW , Hurwitz TA , Sinclair G , Kaczocha M. (2015). Defects in fatty acid amide hydrolase 2 in a male with neurologic and psychiatric symptoms. *Orphanet journal of rare diseases*. 10: 38.
Published

26. Armstrong L , Biancheri R , Shyr C , Rossi A , Sinclair G , Ross CJ , Tarailo-Graovac M , Wasserman WW , van Karnebeek CD. (2014). AIMP1 deficiency presents as a cortical neurodegenerative disease with infantile onset. *Neurogenetics*. 15(3): 157-9.
Published
27. Al-Thihli K , Sinclair G , Sirrs S , Mezei M , Nelson J , Vallance H. (2014). Performance of serum and dried blood spot acylcarnitine profiles for detection of fatty acid β -oxidation disorders in adult patients with rhabdomyolysis. *Journal of inherited metabolic disease*. 37(2): 207-13.
Published
28. van Karnebeek CD , Sly WS , Ross CJ , Salvarinova R , Yaplito-Lee J , Santra S , Shyr C , Horvath GA , Eydoux P , Lehman AM , Bernard V , Newlove T , Ukpeh H , Chakrapani A , Preece MA , Ball S , Pitt J , Vallance HD , Coulter-Mackie M , Nguyen H , Zhang LH , Bhavsar AP , Sinclair G , Waheed A , Wasserman WW , Stockler-Ipsiroglu S. (2014). Mitochondrial carbonic anhydrase VA deficiency resulting from CA5A alterations presents with hyperammonemia in early childhood. *American journal of human genetics*. 94(3): 453-61.
Published

Clinical Care Guidelines

1. Co-author. Medical Guidelines: Prevention and Management of Hypoglycaemia in First Nation Infants and Young Children Including Screening for CPT1a Variant in Infants and Young Children who Present with Ketotic and Hypoketotic Hypoglycemia. (2015).
Contributors: Laura Arbour, Lucy Barney, Charmaine Enns, Melanie Foster, Carolyn Henson, Graham Sinclair, Sylvia Stockler, Hilary Vallance, Kathy Withers
Description / Contribution Value: Member of working group that developed the guidelines
2. Co-author. First Nations Parent Resource: Preventing low blood sugar in healthy First Nations babies and young children. (2015).
Contributors: Laura Arbour, Lucy Barney, Charmaine Enns, Melanie Foster, Carolyn Henson, Graham Sinclair, Sylvia Stockler, Hilary Vallance, Kathy Withers
Description / Contribution Value: Member of the working group that developed the guidelines

Conference Publications

1. Sinclair, Graham and Hilary Vallance. Rapid second-tier testing for newborn screening and therapeutic monitoring of Maple Syrup Urine Disease. Garrod Society Meeting, Ottawa, Canada
Abstract
2. Mercimek-Mahmutoglu, Saadet, Graham Sinclair and S.J. van Dooren. Carrier frequency of GAMT deficiency: First steps to newborn screening for a treatable neurometabolic disorder. Society for Inborn Errors of Metabolism,
Abstract, Invited?: No
3. Lehman, Anna, Graham Sinclair and Gabriella Horvath. Peripheral vasomotor instability in a woman with primary co-enzyme Q10 deficiency from mutations in CABC1. Society for Inborn Errors of Metabolism,
Abstract, Invited?: No
4. Brunel-Guitton, Catherine, Graham Sinclair, Paula Waters, Ron Wanders, Hans Waterham and Michelle Mezei. Recurrent rhabdomyolysis and exercise intolerance: Variable presentation in siblings with late onset very long-chain acyl-CoA dehydrogenase deficiency. *Clinical Neurophysiology*,
Abstract, Invited?: No
5. Sinclair, Graham, Sorcha Collins, Laura Arbour, Oana Popescu and Hilary Vallance. The CPT1A c.1436C>T (p.P479L) variant is common to coastal BC First Nations and is associated with an increased risk of sudden unexpected death. Society for Inborn Errors of Metabolism,
Abstract, Invited?: No

6. Mercimek-Mahmutoglu, Saadet, Elkie Roland, Michelle Steinraths, Linda Huh, Mary Connolly, G Solomons, Graham Sinclair, Cornelus Jakobs and Sylvia Stockler. Six new patients with creatine deficiency syndromes identified by selective screening in British Columbia deficiency. Society for Inborn Errors of Metabolism, Abstract, Invited?: No
7. McMahon, Vanessa, Amy Schellenberg, Catherine Burgess, Graham Sinclair, Hilary Vallance and Mark Chilvers. A novel approach to CF newborn screening: The optional sweat test. Pediatric Pulmonology, Abstract, Invited?: No
8. Bojana Rakic, Dorrit Hansen, Graham Sinclair, Anna Lehman, Hilary Vallance, Clara D. van Karnebeek. The N-acetylneuraminase pyruvate lyase (NPL) gene: a novel cause of free sialic aciduria but is there a clinical phenotype?. Garrod Society Meeting, Canada
Conference Date: 2015/5
Poster
9. Al-Dirbashi, Osama, A Chambers, N McIntosh, MT Geraghty, M Potter, C Prasad, T Rupar, A Schulze, D Sinasac, G Sinclair, P Chakraborty. Quantification of glutaryl-carnitine, 3-hydroxyglutaric and glutaric acid in dried urine spots for the diagnostic workup of glutaric aciduria type 1. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Abstract
10. Gabriella A. Horvath, Lin-Hua Zhang, Patricie Burda, Graham Sinclair, Casper Shyr, Amit P. Bhavsar, Wyeth W. Wasserman, Colin J. Ross, Matthias R. Baumgartner, Clara D. van Karnebeek. Mutations in ACC2 encoding mitochondrial acetyl-coA carboxylase 2 in a child with biotin-responsive multiple carboxylase deficiency. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Poster
11. Cheryl Rockman-Greenberg, Jessica Hartley, Graham Sinclair, Pranesh Chakraborty, Bob Thompson, Hilary Vallance, Laura Arbour, Sorcha Collins, Dennis Bulman. Cross Canada approaches to the common Arctic variant (P479L) in CPT1A deficiency- how can we achieve consensus?. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Abstract
12. Bojana Raki?, Graham Sinclair, Sylvia Stockler, Hilary Vallance. Is Glycine N-Methyltransferase (GNMT) deficiency underdiagnosed?. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Poster
13. Sandra Sirrs, Clara van Karnebeek, Xiaoxue Peng, Casper Shyr, Maja Tarailo-Graovac, Rupasri Mandal, Daniel Testa, Devin Dubin, Gregory Carbonetti, Steven E. Glynn, Wendy P. Robinson, Beomsoo Han, David Wishart, Colin J. Ross, Wyeth W. Wasserman, Trevor A. Hurwitz, Graham Sinclair, Martin Kaczocha. Defects in fatty acid amidehydrolase 2 in a male with neurologic and psychiatric symptoms and vertical gaze palsy. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Poster
14. Maja Tarailo-Graovaca, Gabriella Horvathc, Ramona Salvarinova, Casper Shyra, Cynthia Yea, Leo Kluijtmansg, Ron A. Wevers, Sandra Sirrs, Hilary Vallance, Sylvia Stockler-Ipsiroglu, Graham Sinclair, Colin J. Ross, Wyeth W. Wasserman, Clara D. van Karnebeek. OMICS2TREATID: A collaborative approach to accelerate the discovery of rare neuro-metabolic diseases. Garrod Society Meeting, Vancouver, Canada
Conference Date: 2015/5
Abstract

15. Andy De Souza, Lynn Hitchen, Bojana Rakic, Graham Sinclair. Development and implementation of amino acid quantitation by liquid chromatography-tandem mass spectrometry at BC Children's Hospital. Mass Spectrometry Applications to the Clinical Laboratory, San Diego, United States
Conference Date: 2015/2
Poster

Presentations

1. (2019). Performance of a three-tier (IRT-DNA-IRT) Cystic Fibrosis screening algorithm in British Columbia. 2019 APHL Newborn Screening and Genetic Testing Symposium, United States
Main Audience: Knowledge User
Invited?: No, Keynote?: No
2. (2017). Benefit vs Harm: Ethical decision making in newborn screening. Biology Department Seminar, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
3. Daisy Baulcomb Bojana Rakic Hillary Vallance. (2017). The use of multivariate tools to improve second-tier screening algorithms for Congenital Adrenal Hyperplasia (CAH). 2017 Association of Public Health Labs Newborn Screening and Genetic Testing Symposium, United States
Main Audience: Knowledge User
Invited?: No, Keynote?: No
4. (2017). A pilot study for Newborn Screening of Guanidinoacetate Methyltransferase (GAMT) deficiency in British Columbia. Canadian Newborn and Child Screening Symposium, Canada
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No
5. (2016). Expanding screening and diagnostic capacity for amino acidurias through tandem mass spectrometry. Garrod Symposium, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

Knowledge and Technology Translation

2014/3 - 2015/2 Scientific Advisory Board Member, Consulting for Industry
Activity Description: Scientific Advisory Board Member for the diagnosis and treatment of Niemann-Pick C Disease

Student/Postdoctoral Supervision

Bachelor's [n=2]

2015/5 - 2015/12 Manuel Ester, Simon Fraser University
Co-Supervisor Thesis/Project Title: Method development for Second-tier Newborn Screening Assays.
Present Position: PhD Studies

2013/4 - 2013/8 Tiffany Lau, University of British Columbia
Academic Advisor Thesis/Project Title: Retrospective screening for BCKD-Kinase deficiency, a potentially treatable cause of autism
Present Position: Student

Bachelor's Honours [n=1]

2015/5 - 2015/12 Lyz Boyd, University of British Columbia / BCIT
Co-Supervisor Thesis/Project Title: Bloodspot enzymology assay development for the diagnosis of
lysosomal acid lipase deficiency.
Present Position: Biotech Industry

Post-doctorate [n=3]

2015/9 - 2017/9 Marie-Claude Derry, University of British Columbia
Co-Supervisor Thesis/Project Title: CCMG Laboratory Biochemical Genetics Fellow
Present Position: Biochemical Geneticist

2015/4 - 2015/6 Florin Sasserma, University of Montreal
Co-Supervisor Thesis/Project Title: CCMG Biochemical Genetics Visiting Fellow
Present Position: Biochemical Geneticist

2012/3 - 2015/9 Bojana Rakic, University of British Columbia
Co-Supervisor Thesis/Project Title: CCMG Fellowship in Laboratory Biochemical Genetics
Present Position: Clinical Laboratory Scientist