

Maksim Parfyonov

Pediatric Neurology Resident, Division of Neurology

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POST DOCTORAL TRAINING

British Columbia Children's Hospital
Pediatric Neurology Residency

2017-present

EDUCATION

University of British Columbia
M.D.

2013-2017

Simon Fraser University
B.Sc. with Distinction in Molecular Biology & Neuroscience (Double Major)

2006-2013

PUBLICATIONS

JOURNAL ARTICLES

1. Mick P, **Parfyonov M**, Wittich W, Phillips N, Guthrie D, Pichora-Fuller M. 2018. "Associations between sensory loss and social networks, participation, support, and loneliness: Analysis of the Canadian Longitudinal Study on Aging." *Canadian Family Physician*, 64(1), [e33-e41](#)
2. Petersen CC, Patton DF, **Parfyonov M**, Mistlberger RE. 2014. "Circadian food anticipatory activity: Entrainment limits and scalar properties re-examined." *Behavioral Neuroscience*, 128(6), [689-702](#)
3. Patton DF, Katsuyama AM, Pavlovski I, Michalik M, Patterson Z, **Parfyonov M**, Smit AN, Marchant EG, Chung J, Abizaid A, Storch KF, de la Iglesia, H, Mistlberger RE. 2014. "Circadian mechanisms of food anticipatory rhythms in rats fed once or twice daily: clock gene and endocrine correlates." *PLoS ONE* 10(3): [e0120223](#)
4. Gallardo CM, Hsu CT, Gunapala KM, **Parfyonov M**, Chang CH, Mistlberger RE, Steele AD. 2014. "Behavioral and neural correlates of acute and scheduled hunger in C57BL/6 mice." *PLoS ONE* 9(5): [e95990](#)
5. Patton DF, **Parfyonov M**, Gormelen S, Opiol H, Pavlovski I, Marchant EG, Challet E, Mistlberger RE. 2013. "Photic and pineal modulation of food anticipatory circadian activity rhythms in rodents." *PLoS ONE* 8(12): [e81588](#)
6. Mueller AD, **Parfyonov M**, Pavlovski I, Marchant EG, Mistlberger, RE. 2013. "The inhibitory effect of sleep deprivation on cell proliferation in the hippocampus of adult mice is eliminated by corticosterone clamp combined with interleukin-1 receptor 1 knockout." *Brain, Behavior, and Immunity*, 35, [102-108](#)
7. Mistlberger RE, Kent BA, Chan S, Patton DF, Weinberg A, **Parfyonov M**. 2012. "Circadian clocks for all meal times: anticipation of 2 daily meals in rats." *PLoS ONE* 7(2): [e31772](#)

BOOK CHAPTERS

8. Howard AK, Zurowski M, Parfyonov M, Wong V. 2016. *Neuroleptics and movement disorders*. In: Kompoliti K, Metman LV. (eds.) *Encyclopedia of Movement Disorders*. Academic Press.

MANUSCRIPTS IN PREPARATION

9. **Parfyonov M**, Friedlander R, Banno B, Elbe D, Horvath G. (Submitted) "Psychiatric manifestations in patients with bipterin defects"
10. **Parfyonov M***, Webb P*, Ronsley R, Wu J, Datta A. (In prep.) "Pediatric RCVS in a patient with sickle cell disease"
11. **Parfyonov M***, Alam A*, Hrincu V, Demos M, Iles J, Connolly M. (In prep.) "Parental perspectives on whole exome sequencing for their children with epilepsy"

HONOURS, AWARDS & GRANTS

BC Children's Hospital Pediatric Subspecialty Research Fellow Award	2020
Weston Family Microbiome Initiative, Proof-of-Principle Grant (\$150,000)	2019-2021
Rachel Bagnall Arts in Medicine Grant (\$1,000)	2014
Vice-President, Research Undergraduate Student Research Award (\$4,500)	2012
Open Scholarship (\$4,000)	2011
NSERC Undergraduate Student Research Award (\$4,500)	2011
Evelyn & Leigh Palmer Scholarship (\$3,200)	2011
NSERC Undergraduate Student Research Award (\$4,500)	2010

INVITED TALKS

BC Children's Hospital, Pediatric Neuroscience Rounds

Pediatric RCVS.	Apr 22, 2020
Introduction to Metagenomics: Overview and Clinical Applications	Nov 6, 2019
Pediatric cardiac myxoma causing acute ischemic stroke.	Jan 21, 2019
Neurologic manifestations of systemic lupus erythematosus.	May 1, 2019

Vancouver General Hospital, Grand Rounds

Metabolic myopathies: An introduction and case-based approach.	Mar 25, 2020
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TEACHING EXPERIENCE

BC Children's Hospital

Case-based Neurology teaching for Pediatric Residents: Cranial Nerve Anatomy	Feb 4, 2020
Case-based Neurology teaching for Pediatric Residents: Ataxia	Dec 12, 2019
Case-based Neurology teaching for Pediatric Residents: Status epilepticus	Oct 29, 2019
Case-based Neurology teaching for Pediatric Residents: Transverse Myelitis	Apr 23, 2019
Oncology Teaching for Pediatric Residents. Opsoclonus-Myoclonus Syndrome.	Mar 1, 2019

University of British Columbia, Faculty of Medicine

Clinical Skills Tutor: Pediatric OSCE, Neurology exam.	Sep 2019
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CONFERENCE PRESENTATIONS

1. **Parfyonov M**, Horvath G. Psychiatric manifestations of BH₄ deficiency. Annual Symposium of the Society for the Study of Inborn Errors of Metabolism (SSIEM). Rotterdam, Netherlands. September 3-4, 2019.
2. **Parfyonov M**, Mick P, Pichora-Fuller K, Wittich W. (2016) Association between sensory loss and social outcomes: A preliminary report. *Canadian Acoustics*, 44(3), 124-125.
3. **Parfyonov M**, Wittich W, Pichora-Fuller K, Mick P. Hearing loss and social engagement in older Canadians. 70th Annual Meeting of the Canadian Society of Otolaryngology - Head & Neck Surgery. Charlottetown, PEI. June 11-14, 2016.
4. **Parfyonov M**, Wittich W, Pichora-Fuller K, Mick P. The association between sensory loss and social networks, social participation, social support and loneliness in older Canadians. The Canadian Geriatrics Society. Vancouver, BC. April 14-16, 2016.
5. Gulzar N, Klaric KA, **Parfyonov M**, Montero M, Wang S, Huarte N, Appellaniz B, Nieva J, Lu S, Scott JK. Optimizing DNA vaccines that target the 2F5 epitope of the membrane proximal external region of HIV-1 gp41. *AIDS Vaccine*, Barcelona, Spain. October 7-10, 2013.
6. Gulzar N, McCully M, **Parfyonov M**, Klaric KA, Hannigan B, Ulas G, DeGrado W, Scott JK. Engineering DNA vaccines expressing the membrane proximal external region of HIV-1 gp41 to optimize exposure of neutralizing epitopes. *AIDS Vaccine*, Barcelona, Spain. October 7-10, 2013.
7. Gulzar N, Klaric KA, **Parfyonov M**, Montero M, Hannigan B, Ulas G, McCully M, Wang S, Huarte N, Appellaniz B, Nieva J, Lu S, DeGrado W, Scott JK. DNA Vaccines that optimally present neutralizing epitopes within the membrane proximal external region of HIV-1 gp41. 22nd Annual Canadian Conference on HIV/AIDS Research, Vancouver, BC. April 10-14, 2013.
8. Peterson C, Patton DF, **Parfyonov M**, Opiol H, Pavlovski I, Dattolo T, Mistlberger RE. (2013). Another look at circadian limits to entrainment of food anticipatory activity rhythms in rats. 1st Annual Canadian Society for Chronobiology. Toronto, ON. May 24-26, 2013.
9. **Parfyonov M**, Patton DF, Opiol H, Pavlovski I, Marchant EG, Mistlberger RE. Food anticipatory circadian rhythms: role of non-circadian factors. Society for Research on Biological Rhythms, Destin, Florida. May 19-23, 2012.
10. Patton DF, Marchant EG, **Parfyonov M**, Smit A, Opiol H, Patterson Z, Abizaid A, Storch F, Mistlberger RE. Multiple daily meals: effects on behaviour, peripheral oscillators and associated hormones. Society for Research on Biological Rhythms, Destin, Florida. May 19-23, 2012.
11. Mistlberger RE, Patton DF, Luby M, Hsu CT, Kent BA, Chan S, **Parfyonov M**, Marchant EG, Steele AD. New insights into the circadian mechanisms regulating food anticipation. Symposium of circadian rhythms research in Canada, Douglas Mental Health University Institute, Montreal, QC. June 2-3, 2011.

12. **Parfyonov M**, Patton DF, Jaholkowski M, Mistlberger RE. The role of stress in circadian rhythms. North American Undergraduate Psychology Research Conference, Kwantlen Polytechnic University, Richmond, BC, June 3-4, 2010.

ACTIVE RESEARCH PROJECTS

BC Children's Hospital

1. [EPBiome](#): Leveraging the gut microbiota in treatment resistant epilepsy.
Advisor: Dr. Linda Huh (Neurology)
2. Whole exome sequencing, pediatric epilepsy and choice: Ethics of parental decision making around genetic testing in pediatric epilepsy.
Advisors: Drs. Mary Connolly (Neurology), Judy Iles (Neuroethics)
3. Respiratory and motor outcomes in children with 5q Spinal Muscular Atrophy types 1 and 2 treated with nusinersen.
Advisor: Katherine Selby (Neurology)
4. Cerebrospinal fluid metagenomics and cytokine profiling in children with CNS inflammation.
Advisor: Dr. Millan Patel (Medical Genetics)
5. Psychiatric manifestations of BH4 deficiency: A retrospective chart-based review.
Advisor: Dr. Gabriella Horvath (Biochemical Diseases)

PREVIOUS RESEARCH EXPERIENCE

University of British Columbia

1. Hearing loss and social engagement in older Canadians
Advisor: Dr. Paul Mick (ENT) 2015-2016

Simon Fraser University

2. DNA vaccines for induction of neutralizing antibodies against HIV. 2012-2013
Advisor: Dr. Jamie Scott (Biochemistry)
3. Cross-modal attention studies using event-related potentials. 2010-2011 *Advisor*: Dr. John McDonald (Psychology)
4. Sleep deprivation and neurogenesis, circadian rhythms of food anticipation. 2009-2011
Advisor: Dr. Ralph Mistlberger (Biopsychology)
5. Validity and utility of a broad-band measure of personality and psychopathology. 2008-2009
Advisor: Dr. Kevin Douglas (Psychology)

MENTORSHIP OF UNDERGRADUATE & INTERN RESEARCH

BC Children's Hospital

Sofia Zhang, UBC Summer Research Internship	May-Sep 2019
Stephanie Kwok, BCCH Research Intern	2019-2020

PROFESSIONAL ACTIVITIES AND SERVICE

PROFESSIONAL SERVICE

Residents & Fellows Editorial Board of the Journal of Child Neurology	2020-present
Ad hoc reviewer, Resident & Fellows Section, Neurology journal	2018-present
Ad hoc reviewer, University of British Columbia Medical Journal	2014-2017

UNIVERSITY SERVICE

Resident Representative and Voting Member, UBC Faculty of Medicine	2019-present
Year 4 Class President, Southern Medical Program, UBC Faculty of Medicine	2016-2017

DEPARTMENT SERVICE

BC Children's Pediatric Neurology Residency Program

Resident Representative, Training Committee	2020-present
Wellness Committee	2020-present
Social Media Director	2020-present
CaRMS Selection Committee	2019-present

OUTREACH

Connect Communities (Acquired Brain Injury Centre), Lake Country, BC	2014-2015
Let's Talk Science, Vancouver, BC	2013-2014
SkinSafe Melanoma Prevention Program, Vancouver	2011-2012
Annual Vancouver Brain Bee, Vancouver, BC	2010-2013

MEMBERSHIPS

American Epilepsy Society	2019-present
Child Neurology Society	2018-present
Canadian Neurological Sciences Federation	2018-present
Canadian Association of Child Neurology	2018-present
American Academy of Neurology	2014-present