

CURRICULUM VITAE

Giulia Longoni, MD

Date of Last Update: *May 2024*

Address: *Italy*



EDUCATION

Degrees, Diplomas, Licensures and Certifications

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| 2002 – 2008 | M.D. Graduated <i>summa cum laude with special mention</i> . Vita-Salute San Raffaele Medical School and University, Milan, Italy. |
| 2001 – 2002 | Degree in Sumerian Language and Civilization. Graduated <i>summa cum laude</i> . Centro Studi del Vicino Oriente (CSVO), Milan, Italy. |
| 1995 - 2000 | High School Degree, Classics. Graduated <i>summa cum laude</i> . Leone XIII Institute, Milan, Italy. |

Residency and Post Residency Training

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| 2015 – 2019 | Clinical Research Fellow. Pediatric Neurology - Pediatric MS and Neuroinflammatory Disorders Program, Division of Neurology, The Hospital for Sick Children, Toronto, Canada. |
| 2014 – 2015 | Clinical Research Associate and Fellow - <i>Dementia and Neurodegeneration</i> , Department of Clinical Neurosciences, School of Clinical Medicine, University of Cambridge, United Kingdom (UK). |
| 2013 – 2014 | Visiting Scholar. McConnell Brain Imaging Centre. Montreal Neurological Institute and Hospital, McGill University, Montreal, QC, Canada. |
| 2009 – 2014 | Neurology Residency Training. Graduated <i>summa cum laude with special mention</i> . Vita-Salute San Raffaele Medical School and University, Milan, Italy. |

2008 – 2013 Research Fellow. Neuroimaging Research Unit. Institute of Experimental Neurology, San Raffaele Scientific Institute, Milan, Italy.

BOARDS & CERTIFICATIONS

2014 Diplomate of the Italian Board of Neurology. Board Certified Neurology Specialist.

2009 – present Italian Medical License, Ordine dei Medici Chirurghi e degli Odontoiatri della Provincia di Milano - OMCeOMi. Full Registration. License Number #41285

2015 – present College of Physicians and Surgeons of Ontario (CPSO), Canada, Academic Medical License. License Number #105614.

2015 – present General Medical Council (GMC), UK. Full Registration. Reference Number #7469409

PROFESSIONAL APPOINTMENTS

2024/05 – **Staff Physician, Division of Neurology,**
Azienda Ospedaliera Universitaria IRCCS Meyer,
Firenze, Italy.

2023/09 – 2024/02 **Staff Physician, Division of Neurology,**
Neuromuscular Disorders Unit,
IRCCS Ca' Granda Ospedale Maggiore Policlinico,
Milan, Italy.

2019/02 – present **Staff Physician, Division of Neurology,**
Pediatric MS and Neuroinflammatory Disorders
Program,
The Hospital for Sick Children, Toronto, Ontario,
Canada.
*(On personal leave of absence, August 2023-
September 2024)*

2019/02 – present **Assistant Professor, Pediatric Neurology,**
Faculty of Medicine, Department of Pediatrics (Neurology), University of
Toronto. Toronto, Ontario.

2022/04 – present **Associate Scientist-Track Investigator,** Neurosciences and Mental Health,
Research Institute. The Hospital for Sick Children. Toronto, Ontario.

2019/04 – present **Associate Member, Institute of Medical Science (IMS),** University of
Toronto. Toronto, Ontario.

Previous Appointments

2019/02 – 2020/12 Scientist-Track Investigator, Neurosciences and Mental Health, Research Institute. The Hospital for Sick Children. Toronto, Ontario.

AWARDS & HONORS

- 2021 **Labe C. Scheinberg Award. Platform presentation that has the greatest impact in advancing the care of people with MS.** Ahmed J, Stephens S, Ly M, **Longoni G**, Yeh EA. Consortium of Multiple Sclerosis Centers (CMSC) Annual Meeting, October 2021, Orlando, FL, US.
- 2019 **Best scientific platform presentation.** **Longoni G**, Ciftci-Kavaklioglu B, Yea C, Feltham T, Brown RA, Grover SA, Albassam F, Iruthayanathan R, Yeh EA. Consortium of Multiple Sclerosis Centers (CMSC) Annual Meeting, June 2019, Seattle, WA, US.
- 2017 **Best scientific platform presentation.** Stephens S, Shams S, **Longoni G**, Grover S, Lee JD, Berenbaum T, Finlayson M, Motl R, and Yeh EA. Consortium of Multiple Sclerosis Centers (CMSC) Annual Meeting, May 2019, New Orleans, LA, US.
- 2017 **Exceptional Research Trainee Award in Neuroscience and Mental Health.** The Hospital for Sick Children's Research Institute, Toronto, ON, Canada.
- 2016 **Prichard Day Award Winner - Best Research Project.** The Hospital for Sick Children, Division of Neurology, Toronto, ON, Canada.
- 2016 **CanMEDS Award Runner-Up (Fellow Category).** The Hospital for Sick Children, Division of Neurology, Toronto, ON, Canada.
- 2015 **RESTRACOMP Fellowship - Integrative Research Training Fellowship.** The Hospital for Sick Children Research Training Centre and Centre for Brain & Mental Health's (C-BMH), Toronto, ON, Canada. Award: approximately \$CAD 67,000.
- 2015 **Mentor-Based Postdoctoral Fellowship in Rehabilitation Research.** National Multiple Sclerosis Society, US. Award: approximately \$CAD 160,000.
- 2013 **American Academy of Neurology Institute's (AANI) 2014 Resident Scholarship.** American Academy of Neurology Institute, US. Award: approximately \$US 1,000.

LEADERSHIP AND ADMINISTRATION

International Committees

- 2021/09 – present **Committee member.** The White Matter Rounds: a Multidisciplinary Network to Accelerate the Diagnostic Process for Adult Patients with Rare White Matter Disorders. Led by Dr. R La Piana, The Montreal Neurological Institute, McGill University, Montreal, QC, Canada.

The Institute of Medical Science, Temerty Faculty of Medicine, University of Toronto

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| 2021/03 | Reviewer. 2021-22 Ontario Graduate Scholarships for International Students competition. |
| 2021/04 | Reviewer. 2021-22 Ontario Graduate Scholarships (OGS) competition. |
| 2021/05 | Judge. Alan Wu Poster Competition, 2021 Scientific Day event. |

The Hospital for Sick Children, Department of Pediatrics, and SickKids Research Institute

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| 2022 – present | Garry Hurvitz Centre for Brain and Mental Health (GH-CBMH) Research Committee , Garry Hurvitz Centre for Brain & Mental Health (GH-CBMH), The Hospital for Sick Children (SickKids) Research Institute. |
| 2022 – present | LCH-IV. International Collaborative Treatment Protocol for Children and Adolescents with Langerhans Cell Histiocytosis. EudraCT Nr.: 2011-001699-20. Local advisor (Neurology). The Hospital for Sick Children, Division of Neurology, Toronto, Canada. |
| 2016 – 2017 | Chief Fellow. Paediatric Neurology Training Program, The Hospital for Sick Children, Toronto, ON, Canada. |
| 2016 | Elected Neurology Fellows' Representative, Liaison Committee. Paediatric Neurology Training Program, The Hospital for Sick Children, Toronto, ON, Canada. |

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Association Memberships

American Academy of Neurology (AAN)
The International Child Neurology Association (ICNA)
International Society of Neuroimmunology
MS Society of Canada
National MS Society (US)
Consortium of Multiple Sclerosis Centers (CMSC)
American and European Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS, ECTRIMS)

Reviewer – Journals

Feb 2023 – ongoing: **Editor, *Frontiers in Immunology* and *Frontiers in Neurology*, Multiple Sclerosis and Neuroimmunology section.**

Ad hoc journal reviewer:

Multiple Sclerosis and Related Disorders (MSARD)
Neurology
Journal of Neurology
Journal of Child Neurology
Seminars of Pediatric Neurology
BMC Neurology
Canadian Journal of Neurological Sciences
Seizure: European Journal of Epilepsy

Miscellaneous Peer Reviewed Activity

Departmental & Divisional Scientific Reviews

2019 – present Multiple departmental and divisional scientific reviews, performed at least once monthly (Division of Neurology, Division of Rheumatology, Department of Paediatric Laboratory Medicine).

TEACHING EXPERIENCE

2019 – present **Assistant Professor of Pediatric Neurology, Temerty Faculty of Medicine, University of Toronto.**

- Member of internal Program Education Board (“Competence Committee”). Paediatric Neurology Training Program, Hospital for Sick Children, Toronto, ON, Canada.
- Delivers yearly lecture series for post-graduate trainees. Department of Paediatrics, Division of Neurology, Neuroinflammatory Program, Hospital for Sick Children, Toronto, ON, Canada.
- *Objective Structured Clinical Examination (OSCE)*. Designed and proctored examinations of post-graduate trainees annually. Paediatric Neurology Training Program, Hospital for Sick Children, Toronto, ON, Canada.
- “Research Tools Course” 2022. Course co-leader. Full-semester course for post-graduate trainees. Paediatric Neurology Training Program, Hospital for Sick Children.

2015 – 2019 **Lecturer in Pediatric Neurology, Temerty Faculty of Medicine, University of Toronto.**

- Assisted with delivering yearly lecture series for post-graduate trainees under the supervision of the Director of the Neuroinflammatory Disorders Program. Department of Paediatrics, Division of Neurology, Neuroinflammatory Program, Hospital for Sick Children, Toronto,

ON, Canada.

Other Education Experience

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| 2019 – present | Collaborates in coordination and organization of weekly Neuroinflammatory Disease Rounds including Journal Club, case rounds, and protocol development. |
| 2015 – present | Ward/Bedside teaching of medical students, pediatrics/neurology residents, interns. Weekly rounds and seminars given to students and fellow/residents. Multiple didactic and interactive sessions given to medical students and pediatrics and neurology residents. Neurology/Child Neurology. Presentations to morning educational sessions. The Hospital for Sick Children, Toronto, ON. |

RESEARCH AND INVESTIGATION

The Longoni lab is situated at the Peter Gilgan Centre for Research and Learning (PGCRL), SickKids Research Institute, Toronto. The Longoni lab's focus is to combine innovative image acquisition and analysis approaches with clinical and biological markers to investigate mechanisms underlying disease onset and progression in pediatric multiple sclerosis and other pediatric autoimmune/inflammatory disorders of the central nervous system. The long-term objective of the program is to translate knowledge gained from "big data" coupled with the use of advanced analytical approaches (in particular computer vision) to provide evidence to inform future clinical practice and pharmacological trials in pediatric neuroinflammatory disorders. The lab meets weekly for lab meetings. Furthermore, Dr. Longoni meets at least weekly with primary trainees with a focus not only on ongoing research projects (statistical modeling, MRI processing, coding, computer vision) but on overall career development and research team management.

Supervision and mentorship.

Postdoctoral Students

Daniela Castillo (September 2022 – September 2023). Pediatric Neurology Fellow (Neuroinflammatory Fellow). Primary Supervisor. *Computer-aided assisted diagnosis of neuroinflammatory disorders.*

Michal Stern-Zimmer (September January 2023 – ongoing). Pediatric Neurology Fellow. Primary supervisor. *Management of Children with Acute NORSE/FIRES Presentation at the Hospital for Sick Children.*

Naveed Qureshi, PhD (2019 – 2021). Post-doctoral student. Primary Supervisor. *Longitudinal quantitative MRI changes in the limbic system of youth with MS and MOG-associated disorders.*

Reem Zakzouk, MD (2020). Neuroradiology Fellow. Co-Supervisor (with Dr. H. Branson). *Short-seroconversion time and absence of preceding infection, but not baseline brain MRI features, are associated with a future relapsing course in pediatric patients with MOG antibody-positive disease.*

Asthik Biswas, MD (2020 – ongoing). Neuroradiology Fellow. Primary Supervisor. *Immunotherapy-responsive Gray matter and Leptomeningeal Inflammatory (“SIGIL”) Meningoencephalomyelitis.*

Medical Students

Nilaksa Sivanenthiran (2019). **Summer Student. Primary Supervisor.** *Longitudinal quantitative MRI changes in the hippocampus of youth with MS and MOG-associated disorders.*

Kimberly Young (2018). **Summer Student. Co-Supervisor (with Dr. E. A. Yeh).** *Magnetization transfer saturation reveals subclinical optic nerve injury in pediatric multiple sclerosis.*

Graduate Students

Luke Chung (2022 - ongoing). **Research Assistant. Primary Supervisor.** *Computer-aided assisted diagnosis of neuroinflammatory disorders.*

Undergraduate Students

Edgar Chavez Martinez (June 2019 – February 2023). **Undergraduate Research Student. Primary Supervisor.** *Socioeconomic Status is associated with Amygdala Microstructure in Early Onset Multiple Sclerosis.*

Hasan (Syed) Jafri (2021- ongoing). **Undergraduate Research Student. Primary Supervisor.** *Longitudinal assessment of systemic inflammatory markers in MOG-associated disorders.*

Research Students

Nina Wroblewski (2022 - ongoing). **Undergraduate Research Volunteer. Primary Supervisor.** *Computer-aided assisted diagnosis of neuroinflammatory disorders.*

Research Funding

2020 –2022	Principal Investigator. Quantitative Perfusion Imaging for Autoimmune Encephalitis Diagnosis and Monitoring. Funded by Feiga Bresver Catalyst Grant from Health Outcomes Canada. Garry Hurvitz Centre for Brain & Mental Health (GH-CBMH), The Hospital for Sick Children (SickKids) Research Institute. \$98,694.72 (CDN).
2020 – 2022	Co-Investigator. ACCT2-17 “Pharmacological recruitment of endogenous neural precursors to promote white matter repair in MS”. Funded by the Ontario Institute of Regenerative Medicine (OIRM): \$200,000 (CDN); CIHR \$4,179,716 (CDN); CFREF Medicine by Design: \$540,000 (CDN); Multiple Sclerosis Society of Canada: \$399,954 (CDN).
2019 – 2024	Co-Investigator. “Physical Activity, Quality of Life and Disease Outcomes in Youth with Multiple Sclerosis. The ATOMIC (Active Teens Multiple Sclerosis)

PUBLICATIONS

Peer Reviewed Journal Publications – Published

1. Almudhry A & Wagner MW, **Longoni G**, Yea C, Vidarsson L, Ertl-Wagner B, Yeh EA. *Brain Volumes in Opsoclonus-Myoclonus Ataxia Syndrome: A Longitudinal Study. Journal of Child Neurology, 2024. DOI: 10.1177/08830738241240181. In press.*
2. Madani J, Yea C, Mahjoub A, Brna P, Jones K, **Longoni G**, Nabavi Nouri M, Rizk T, Stewart W, Wilbur C, Yeh EA. *Clinical features and outcomes in children with seronegative autoimmune encephalitis. Dev Med Child Neurol. 2024;00:1–9. DOI: 10.1111/dmcn.15896. In press.*
3. Huang J, Brien D, Coe BC, **Longoni G**, Mabbott DJ, Munoz DP, Yeh EA. *Delayed oculomotor response associates with optic neuritis in youth with demyelinating disorders. Mult Scler Relat Disord. 2023 Nov;79:104969. DOI: 10.1016/j.msard.2023.104969.*
4. Branson HM, **Longoni G**. *Clinical neuroimaging in pediatric MS and other pediatric dysimmune disorders of the central nervous system. Semin Roentgenol. 2023 Jan;58(1):67-87. DOI:10.1053/j.ro.2022.11.001.*
5. **Longoni G**, Martinez Chavez E, Brown RA, Young K, Bells S, Berenbaum T, Fetco D, Grover SA, Costello F, Reginald A, Bar-Or A, Marrie RA, Arnold DL, Narayanan S, Branson HM, Banwell B, Sled JG, Mabbott D, Yeh EA. *Magnetization transfer saturation reveals subclinical optic nerve injury in pediatric multiple sclerosis. Mult Scler Relat Disord. 2022, DOI: 10.1177/13524585221137500*
6. Huang YT, Giacomini PS, Massie R, Venkateswaran S, Trudelle AM, Fadda G, Sharifian-Dorche M, Boudjani H, Poliquin-Lasnier L, Airas L, Saveriano A, Levesque-Roy M, Ziller MG, Miller E, Martinez-Rios C, Wilson N, Davila J, Rush C, E. Longbrake EE, **Longoni G**, Bernard G, Antel J, Brais B, La Piana R, on behalf of the White Matter Rounds Network. *The White Matter Rounds' Experience: The Importance of a Multidisciplinary Network to Accelerate the Diagnostic Process for Adult Patients with Rare White Matter Disorders. Front. Neurol., 25 July 2022, Sec. Neurogenetics, https://DOI.org/10.3389/fneur.2022.928493*
7. Ciftci Kavaklioglu B, Erdman L, Goldenberg A, Kavaklioglu C, Alexander C, Oppermann HM, Patel A, Hossain S, Berenbaum T, Yau O, Yea C, Ly M, Costello F, Mah JK, Reginald A, Banwell B, **Longoni G**, and Yeh EA. *Machine learning classification of multiple sclerosis in children using optical coherence tomography. Mult Scler Relat Disord. 2022, DOI: 10.1177/13524585221112605*
8. Fadda G, Waters P, Woodhall M, Brown RA, O'Mahony J, Castro D, **Longoni G**, Yeh EA, Marrie RA, Arnold DA, Banwell B, Bar-Or A, on behalf of the Canadian Pediatric Demyelinating Disease Network. *Anti-MOG-IgG in children meeting multiple sclerosis diagnostic criteria. MSJ 2022. https://DOI.org/10.1177/13524585221093789*
9. **Longoni G**, Brown RA, Oyefiade A Iruthayanathan R, Wilbur C, Shams Noguera A, Chung L, Grover SA, O'Mahony, Wan MJ, Mah, Costello F, Arnold DL, Marrie RA, Bar-Or A, Banwell B,

- Mabbott D, Reginald AY, Yeh EA. *Progressive retinal changes in pediatric multiple sclerosis. Mult Scler Relat Disord.* 2022. DOI: 10.1016/j.msard.2022.103761
10. Bells S, **Longoni G**, Berenbaum T, de Medeiros CB, Narayanan S, Banwell BL, Arnold DL, Mabbott DJ, Yeh EA. *Patterns of white and gray structural abnormality associated with paediatric demyelinating disorders. Neuroimage: Clinical,* 2022. <https://DOI.org/10.1016/j.nicl.2022.103001>
 11. Ahmed J., Stephens S., Li M., **Longoni G**, Yeh EA. *Structural visual metrics associate with moderate to vigorous physical activity in youth with pediatric onset neuroinflammatory disorders. Mult Scler Relat Disord.* 2022. 10.1016/j.msard.2022.103745
 12. Vogt L, Stephens S, Ciftci-Kavaklioglu B, Berenbaum T, Ly M, **Longoni G**, Yeh EA. *Pandemic-associated mental health changes in youth with neuroinflammatory disorders. Mult Scler Relat Disord.* 2021. DOI:10.1016/j.msard.2021.103468.
 13. Kaseka ML, Ly M, Yea C, **Longoni G**, Yeh EA. *Impact of COVID-19 public health measures on myelin oligodendrocyte glycoprotein IgG-associated disorders in children. Mult Scler Relat Disord.* 2021, Nov 56;103286. <https://DOI.org/10.1016/j.msard.2021.103286>
 14. Fabri TL, Datta R, O'Mahony J, Barlow-Krelina E, De Somma E, **Longoni G**, Gur RE, C Gur RC, Bacchus M, Yeh EA, Banwell BL, Till C. *Memory, processing of emotional stimuli, and volume of limbic structures in pediatric-onset multiple sclerosis. Neuroimage Clin.* 2021 Jul 9;31:102753. DOI: 10.1016/j.nicl.2021.102753.
 15. Waters P, Fadda G, Woodhall M, O'Mahony J, Brown RA, Castro DA, **Longoni G**, Irani SR, Sun B, Yeh EA, Marrie RA, Arnold DL, Banwell B, Bar-Or A on behalf of the Canadian Pediatric Demyelinating Disease Network. *Serial MOG-antibody analyses and outcomes in a prospective unselected cohort of pediatric demyelinating syndromes. JAMA Neurol.* 2019 Sep 23. DOI: 10.1001/jamaneurol.2019.2940.
 16. Wilbur C, **Longoni G**, Reginald YA, Wan M, Grover SA, Noguera AE, Arnold DL, Marrie RA, Bar-Or A, Banwell B, Costello F, Yeh EA on behalf of The Canadian Demyelinating Disease Network. *Early Neuraxonal Injury is seen in the Acute Phase of Pediatric Optic Neuritis. Mult Scler Relat Disord.* 2019 Sep 7;36:101387. DOI: 10.1016/j.msard.2019.101387.
 17. **Longoni G**, Albassam F, Grover SA, Yea C, Wilbur C, Yeh EA. *Rituximab Use in Youth with Persistently Myelin Oligodendrocyte Glycoprotein Antibody Positive Relapsing Neuroinflammation. Dev Med Child Neurol.* 2019 Aug 30. DOI: 10.1111/dmcn.14336.
 18. Bells S, Lefebvre J, **Longoni G**, Narayanan S, Arnold D, Yeh EA, Mabbott D. *White Matter Plasticity and Maturation in Human Cognition. Glia.* 2019. DOI: 10.1002/glia.23661.
 19. Stephens S, Shams S, Lee J, Grover SA, **Longoni G**, Berenbaum T, Finlayson M, Motl RW, Yeh EA. *Benefits of Physical Activity for Depression and Fatigue in Multiple Sclerosis: A longitudinal Analysis. J Pediatr.* 2019;209:226-232.e2. DOI: 10.1016/j.jpeds.2019.01.040.
 20. Fadda G, Brown RA, **Longoni G**, Castro D, O'Mahony J, Verhey L, Branson H, Waters P, Bar-Or A, Marrie RA, Yeh EA, Narayanan S, Arnold DL, and Banwell B, for the Canadian Demyelinating Disease Network. *MRI and laboratory features and the performance of international criteria in the diagnosis of multiple sclerosis in children and adolescents: a*

- prospective cohort study. *Lancet Child and Adolescent Health*. 2019;2(3):191-204. DOI: 10.1016/S2352-4642(18)30026-9.
21. **Longoni G**, Banwell B. *Neuroimaging in Pediatric Autoimmune Diseases*. *Journal of Pediatric Neurology*. 2018; 3(16). DOI: 10.1055/s-00029030.
 22. Su L, Hayes L, Soteriades S, Williams G, Brain SAE, Firbank MJ, **Longoni G**, Arnold RJ, Rowe JB, O'Brien JT. *Hippocampal Stratum Radiatum, Lacunosum and Molecular Sparing in Mild Cognitive Impairment*. *J Alzheimers Dis*. 2018;61(1):415-424. DOI: 10.3233/JAD-170344.
 23. Yeh EA, Greenberg J, Abla O, **Longoni G**, Diamond E, Hermiston M, Tran B, Rodriguez-Galindo C, Allen CE, McClain KL, on behalf of the North American Consortium for Histiocytosis. *Evaluation and Treatment of Langerhans Cell Histiocytosis Patients with Central Nervous System Abnormalities: Current Views and New Vistas*. *Pediatr Blood Cancer*. 2018 Jan;65(1). DOI: 10.1002/pbc.26784.
 24. Aubert Broche B, Weier K, **Longoni G**, Fonov VS, Bar-Or A, Marrie RA, Yeh EA, Narayanan S, Arnold DL, Verhey LV, Banwell B, Collins DL. *Monophasic demyelination reduces brain growth in children*. *Neurology*. 2017 May 2;88(18):1744-1750. DOI: 10.1212/WNL.0000000000003884.
 25. **Longoni G**, Brown RA, Momayyeziahkal P, Elliot C, Filippi M, Yeh EA, Narayanan S, Bar Or A, Marrie RA, Banwell B, Arnold DL, on behalf of The Canadian Pediatric Demyelinating Disease Network. *White Matter Changes in Pediatric Multiple Sclerosis and Monophasic Demyelinating Disorders*. *Brain*. 2017 May 1;140(5):1300-1315. DOI: 10.1093/brain/awx041.
 26. **Longoni G**, Levy DM, Yeh EA. *The Changing Landscape of Childhood Inflammatory CNS Disorders*. *J Pediatr*. 2016 Dec;179:24-32.e2. DOI: 10.1016/j.jpeds.2016.08.054.
 27. **Longoni G**, Aubert-Broche B, Brown RA, Grover S, Branson H, Hopkins D, Bar-Or A, Marrie RA, Motl RW, Arnold DL, Banwell B, Narayanan S, Collins DL, Yeh EA, on behalf of The Canadian Pediatric Demyelinating Disease Network. *Physical Activity and Dentate Gyrus Volume in Pediatric Acquired Demyelinating Syndromes*. *Neurol Neuroimmunol Neuroinflamm*. 2018 September 6; 5 (6): e499.
 28. Rocca MA, **Longoni G**, Pagani E, Boffa G., Colombo B, Rodegher M, Martino G, Falini A, Comi G, Filippi M. *In Vivo Evidence of Hippocampal Dentate Gyrus Expansion in Multiple Sclerosis*. *Hum Brain Mapp*. 2015 Nov;36(11):4702-13. DOI: 10.1002/hbm.22946.
 29. **Longoni G**, Rocca MA, Pagani E, Riccitelli GR, Colombo B, Rodegher M, Falini A, Comi G, Filippi M. *Deficits in Memory and Spatial Cognition Correlate with Regional Hippocampal Atrophy in Multiple Sclerosis*. *Brain Struct Funct*. 2015 Jan;220(1):435-44. DOI: 10.1007/s00429-013-0665-9.
 30. **Longoni G**, Banwell B, Filippi M, Yeh EA. *Rituximab as a First-Line Preventive Treatment in Paediatric NMOSDs: Preliminary Results in Five Children*. *Neurol Neuroimmunol Neuroinflamm*. 2014 Dec 11;1(4):e46. DOI: 10.1212/NXI.0000000000000046.
 31. Filippi M, Rocca MA, Pagani E, De Stefano N, Jeffery D, Kappos L, Montalban X, Boyko AN, Comi G; ALLEGRO Study Group (Filippi M, Rocca MA, Absinta M, **Longoni G**, et al). *Placebo-Controlled Trial of Oral Laquinimod in Multiple Sclerosis: MRI Evidence of an Effect*

on Brain Tissue Damage. *J Neurol Neurosurg Psychiatry*. 2014 Aug;85(8):851-8. DOI: 10.1136/jnnp-2013-306132.

32. **Longoni G**, Bigi S, Branson HM, Hawkins C, Rutka JT, Filippi M, Yeh EA. *Multicystic Demyelinating Myelopathy: Widening Spectrum of Pediatric AQP4-Related Autoimmunity*. *Neurology*. 2014 Mar 11;82(10):902-3. DOI: 10.1212/WNL.0000000000000192.
33. *Diffusion Tensor MRI Contributes to Differentiate Richardson's Syndrome from PSP-Parkinsonism*. Agosta F, Pievani M, Svetel M, Ječmenica Lukić M, Copetti M, Tomi A, Scarale A, **Longoni G**, Comi G, Kostić VS, Filippi M. *Neurobiol Aging*. 2012 Dec;33(12):2817-26. DOI: 10.1016/j.neurobiolaging.2012.02.002.
34. Comi G, Jeffery D, Kappos L, Montalban X, Boyko A, Rocca MA, Filippi M, for the ALLEGRO Study Group (Comi G, Boiko A, Filippi M, Jeffery D, Kappos L, Montalban X, McFarland H, Bauer K, Galay N, Larrey D, Metz L, White W, Filippi M, Absinta M, **Longoni G**, et al). *Placebo-Controlled Trial of Oral Laquinimod for Multiple Sclerosis*. *N Engl J Med*. 2012 Mar 15;366(11):1000-9. DOI: 10.1056/NEJMoa1104318.
35. Agosta F, **Longoni G**, Kostić VS, Stojković T, Pagani E, Stošić-Opinć, T, Filippi M. *Reply: MRI measurements of brain stem structures in patients with Richardson's syndrome, progressive supranuclear palsy-parkinsonism, and Parkinson's disease*. *Mov Disord*. 2011 July 8;26(8), pp. 1575-1576. WOS: 000293334800047. ISSN: 0885-3185. IDS Number: 800CB. DOI: <https://dx.doi.org/10.1002/mds.23702>.
36. **Longoni G**, Agosta F, Kostić VS, Stojkovic T, Pagani E, Stosic-Opincal T, Filippi M. *MRI Measurements of Brain Structures in Patients with Richardson's Syndrome, Progressive Supranuclear Palsy-Parkinsonism, and Parkinson's Disease*. *Mov Disord*. 2011 Feb 1;26(2):247-55. DOI: 10.1002/mds.23293.

Peer Reviewed Journal Publications – Submitted

1. Biswas A, Hazrati LN, Laxer RM, Bitnun A, Yeh EA, HM Branson, **Longoni G**. *Immunotherapy-responsive Gray matter and Leptomeningeal Inflammatory ("SIGIL") Meningoencephalomyelitis*. *Developmental Medicine & Child Neurology*, April 2023, *Major reviews*.

Chapters in Books – Published

1. **Longoni G**, Yeh EA. *Diagnosis of Childhood Immune-Mediated CNS Vasculitides*. MedLink Neurology, 2018-2020. <https://www.medlink.com/articles/diagnosis-of-childhood-immune-mediated-cns-vasculitides>
2. **Longoni G**, Yeh EA. *Immune-Mediated Encephalidities*. Springer Book. Clinical Child Neurology, 2017-202. https://DOI.org/10.1007/978-3-319-43153-6_19

Peer Reviewed Abstracts

1. Da Silva S, Yea C, Madani J, Wagner M, **Longoni G**, Branson HM, Vidarsson L, Ertl-Wagner B, Yeh EA. *Associations of Serum Neurofilament Light Chain with Outcomes in Children with Autoimmune Encephalitis*. 75th Annual American Academy of Neurology (AAN) Meeting, April

22-27, 2023, Boston, MA, US. Poster Presentation.

2. Proulx C, Haj-Hassan T, Ertl-Wagner B, Laughlin S, Branson H, **Longoni G**, Wadhwa A, Kescha K, Guilder L, Helmers. *A Rare but not rare enough: two cases of covid-19-associated acute necrotizing encephalopathy in children without ranbp2 gene mutation*. European society for paediatric intensive care, paediatric critical care & neonatal intensive care (ESPNIC) conference, June 2023.
3. Hiremath S, Parra-Farinas C, Wagner M, **Longoni G**, Yeh EA, Branson H, Shroff M, Ertl-Wagner B. *Imaging in Pediatric Autoimmune Encephalitis: When a friend turns into a foe*. American Society of Pediatric Neuroradiology (ASPNR) conference 2023. American Society of Neuroradiology (ASNR) conference, May 2023.
4. Chavez EM, Zakzouk R, Amirabadi A, Jafri S, Ly M, Yea C, Yeh EA, Branson HM, **Longoni G**. *Short-seroconversion time and absence of preceding infection, but not baseline brain MRI features, are associated with a future relapsing course in pediatric patients with MOG antibody-positive disease*. ECTRIMS conference September 2021, e-Poster presentation.
5. Huang J, Brien D, Coe BC, **Longoni G**, Mabbott DJ, Munoz DP, Yeh EA. *Delayed Oculomotor Response Latency Associated with Optic Neuritis History in Youth with Demyelinating Disorders*. ACTRIMS 2021. February 2021. Poster presentation.
6. Ahmed J, Stephens S, Ly M, **Longoni G**, Yeh EA. *Structural Visual Metrics Associate with Moderate to Vigorous Physical Activity in Youth with Pediatric Onset Demyelinating Conditions*. Platform presentation. ECTRIMS & Consortium of Multiple Sclerosis Centers (CMSC) conference. Oct 25-28, 2021. Platform presentation.
7. Brown RA, Bells S, Berenbaum T, De Medeiros C, Fetco D, Narayanan S, Bar-Or A, Marrie RA, Arnold DL, Banwell B, Sled J, Mabbott DE, Yeh EA, **Longoni G**. *MRI Characterization of Damage in and Around Lesions in Pediatric MS and MOG-associated disorders*. Poster presentation. 2020 MSVirtual (Joint EXTRIMS / ACTRIMS meeting), September 2020. e-Poster presentation. AAN 2021 (April).
8. **Longoni G**, Bells S, Brown RA, Berenbaum T, De Medeiros C, Fetco D, Narayanan S, Bar-Or A, Marrie RA, Arnold DL, Banwell B, Sled J, Yeh EA, Mabbott DE. *Axonal and myelin volume fractions and imaging g-ratio in pediatric MS and MOG-associated disorders*. 2020 MSVirtual (Joint EXTRIMS / ACTRIMS meeting), September 2020. Poster presentation. AAN 2021 (April).
9. Bells S, **Longoni G**, Berenbaum T, De Medeiros C, Narayanan S, Arnold DL, Marrie RA, Bar-Or A, Banwell B, Mabbott DE, Yeh EA. *Fibre-specific white matter differences in children with paediatric acquired demyelinating syndromes compared to healthy children*. Platform presentation. 2020 MSVirtual (Joint EXTRIMS / ACTRIMS meeting), September 2020.
10. Ciftci B, Kavaklioglu C, Erdman L, Goldberg A, Alexander C, Oppermann HM, Patel A, Hossain S, Berenbaum T, Vincent A, Costello F, Mah J, Reginald A, Banwell B, **Longoni G**, Yeh EA. *Use of machine learning classifiers based on visual metrics in children with acquired demyelination*. Platform presentation. 2020 MSVirtual (Joint EXTRIMS / ACTRIMS meeting), September 2020.
11. Kim L, Pang E, Maguire B, **Longoni G**, Jobst C, Berenbaum T, Mabbott DE, Yeh EA. *Evaluating visual evoked cortical magnetic responses in youth with demyelination*. Poster presentation. 2020 MSVirtual (Joint EXTRIMS / ACTRIMS meeting), September 2020.
12. **Longoni G**, Berenbaum T, Yadav S, Kadas ME, Mabbott D, Brandt AU, Yeh EA. *Optic nerve*

head volume is significantly decreased in pediatric ms and not pediatric MOG-related disorders. Poster presentation, 2020 ACTRIMS Annual Meeting, February 2020, Palm Beach, Florida, US, and oral presentation, AAN meeting April 25-May 1, 2020.

13. Chatur N, **Longoni G**, Yeh EA. *Outcomes in Acute Necrotizing Encephalopathy of Childhood.* AAN meeting April 25-May 1, 2020. Poster presentation.
14. Ciftci B, Kavaklioglu C, Erdman L, Goldberg A, Berenbaum T, Costello F, Mah J, Reginald YA, Banwell B, **Longoni G**, Yeh EA. *Machine learning algorithms applied to visual metrics to classify neuroinflammatory disorders diagnosis in children.* Oral presentation. Consortium of Multiple Sclerosis Centers (CMSC) 2020. May 2020. Platform presentation.
15. Ciftci-Kavaklioglu C, **Longoni G**, Grover SA, Yea C, Feltham T, Yeh EA. *Anxiety, depression and fatigue in youth with neuroinflammation.* Poster presentation. 2020 ACTRIMS Annual Meeting, February 2020, Palm Beach, Florida, US.
16. **Longoni G**, Ciftci-Kavaklioglu B, Yea C, Feltham T, Brown RA, Grover SA, Albassam F, Iruthayanathan R, Yeh EA. *Relevance of Timing of MOG Serum Testing: Does Positivity Always Signal Recurrence.* Platform presentation. 2019 Consortium of Multiple Sclerosis Centers (CMSC) Annual Meeting, June 2019, Seattle, WA, US.
17. **Longoni G**, Brown RA, Young K, Berenbaum T, Fetco D, Grover SA, Costello F, Reginald AY, Bar-Or A, Marrie RA, Arnold DL, Narayanan S, Banwell B, Sled J, Mabbott D, Yeh EA. *Magnetization Transfer Saturation Reveals Subclinical Optic Nerve Demyelination in Pediatric Multiple Sclerosis.* 2019 ACTRIMS Forum, February 28-March 2, 2019, Dallas, Texas, US. Poster Presentation.
18. Waters P, Fadda G, Woodhall M, Irani SR, O'Mahony J, Brown RA, Castro DA, **Longoni G**, Yeh EA, Marrie RA, Arnold DL, Banwell B, Bar-Or A. *Anti-MOG IgG1 Antibodies in Children.* 71st Annual American Academy of Neurology Meeting, Philadelphia, PA. May 4-10, 2019. Platform Presentation.
19. Brown R, Fadda G, **Longoni G**, Castro D, O'Mahony J, Bar-Or A, Marrie RA, Yeh EA, Arnold D, Banwell B. *Assessment of baseline imaging features as predictors of poor disease course in pediatric onset multiple sclerosis.* 71st Annual American Academy of Neurology Meeting, Philadelphia, PA. May 4-10, 2019. Platform Presentation.
20. **Longoni G**, Brown R, Young K, Berenbaum T, Fetco D, Grover S, Costello F, Reginald AY, Bar-Or A, Marrie RA, Arnold D, Narayanan S, Banwell B, Sled J, Mabbott D, Ann E. *Magnetization Transfer Saturation Reveals Subclinical Optic Nerve Demyelination in Pediatric Multiple Sclerosis.* 71st Annual American Academy of Neurology Meeting, Philadelphia, PA. May 4-10, 2019. Poster Presentation.
21. Fadda G, Waters P, Woodhall M, Irani SR, Brown RA, O'Mahony J, Castro DA, **Longoni G**, Yeh EA, Marrie RA, Arnold DL, Banwell B, Bar-Or A. *Prospective characterization of children positive for anti-MOG antibodies meeting multiple sclerosis diagnostic criteria.* 71st Annual American Academy of Neurology Meeting, Philadelphia, PA. May 4-10, 2019. Poster Presentation.
22. Waters P, Fadda G, Woodhall M, Irani SR, O'Mahony J, Brown RA, Castro D, **Longoni G**, Yeh EA, Marrie RA, Arnold DL, Banwell B, Bar-Or A, for the Canadian Pediatric Demyelinating Disease Network. *MOG-IgG1 Antibodies in Children.* 2018 ECTRIMS Meeting, October 10th, 2018, Berlin, Germany. Platform Presentation.

23. Fadda G, Waters P, Woodhall M, Irani SR, Brown RA, O'Mahony J, Castro D, **Longoni G**, Yeh EA, Marrie RA, Arnold DL, Banwell B, Bar-Or A, for the Canadian Pediatric Demyelinating Disease Network. *Prospective clinical and MRI characterization of children with serum anti-MOG antibodies meeting the multiple sclerosis diagnostic criteria*. 2018 ECTRIMS Meeting, October 10th, 2018, Berlin, Germany. Poster Presentation.
24. Fadda G, Brown RA, **Longoni G**, Castro D, O'Mahony J, Verhey L, Branson H, Waters P, Bar-Or A, Marrie RA, Yeh EA, Narayanan S, Arnold DL, and Banwell B, for the Canadian Demyelinating Disease Network. *MRI contributions to the diagnosis of multiple sclerosis in children*. American Academy of Neurology 70th Annual Meeting, April 21 to April 27, 2018, Los Angeles, CA. Platform Presentation.
25. Grover SA, Berenbaum T, Nandamalavan D, Yea C, Iruthaynathan R, Wilbur C, Alabassam F, **Longoni G**, Reginald A, Wan M, Costello F, O'Mahony J, Arnold DA, Banwell B, Bar-Or A, Marrie RA, Mabbott D, Yeh EA, on behalf of The Canadian Demyelinating Disease Network. *Retinal nerve fiber layer (RNFL) and ganglion cell inner plexiform layer (GC IPL) in persistently myelin oligodendrocyte glycoprotein antibody positive youth*. American Academy of Neurology 70th Annual Meeting, April 21 to April 27, 2018, Los Angeles, CA. Poster Presentation.
26. **Longoni G**, Oyefiade A, Shams S., Brown RA., Noguera A, Grover SA, Wilbur C, Wan M, Mah J, Costello F, Banwell B, Mabbott B, Reginald AY, Yeh EA. *Progressive degeneration of retinal nerve fiber layer and ganglion cell-inner plexiform layer is seen in pediatric multiple sclerosis in comparison to monophasic demyelination and controls*. AAN Meeting, April 22-28, 2017, Boston, MA, USA. Platform Presentation.
27. Wilbur C, **Longoni G**, Noguera A, Grover SA, Wan M, Mah J, Costello F, Banwell B, Mabbott B, Reginald AY, Yeh EA. *Early ganglion cell layer loss is seen in pediatric optic neuritis*. AAN Meeting, April 22-28, 2017, Boston, MA, USA. Poster Presentation.
28. Sham L, **Longoni G**, Yeh EA. *MRI, psychiatric and neuropsychological sequelae in children with anti-NMDAR encephalitis*. 2017 AAN Meeting, April 22-28, 2017, Boston, MA, USA. Poster Presentation.
29. **Longoni G**, Oyefiade A, Shams S., Brown RA., Noguera A, Grover SA, Wilbur C, Wan M, Mah J, Costello F, Banwell B, Mabbott B, Reginald AY, Yeh EA. *Progressive degeneration of retinal nerve fiber layer and ganglion cell-inner plexiform layer is seen in pediatric multiple sclerosis in comparison to monophasic demyelination and controls*. 2017 ACTRIMS Forum, February 23-25, 2017, Orlando, FL, USA. Platform Presentation.
30. Wilbur C, **Longoni G**, Noguera A, Grover SA, Wan M, Mah J, Costello F, Banwell B, Mabbott B, Reginald AY, Yeh EA. *Early ganglion cell layer loss is seen in pediatric optic neuritis*. 2017 ACTRIMS Forum, February 23-25, 2017, Orlando, FL, USA. Poster Presentation.
31. **Longoni G**, Aubert-Broche B, Brown RA, Grover S, Branson H, Hopkins D, Bar-Or A, Marrie RA, Motl RW, Arnold DL, Banwell B, Narayanan S, Collins DL, Yeh EA. *Physical activity levels are associated with hippocampal dentate gyrus volume of pediatric patients with acquired demyelinating syndromes*. 2016 ECTRIMS Meeting, September 14-17, 2016, London, UK. Poster Presentation.
32. Yeh EA, Sarah Leary, **Longoni G**, Abula O, Weitzman S, Whitlock J. *Clinical and radiographic improvement of neurodegenerative Langerhans Cell Histiocytosis following Dabrafenib*. 2016 AAN Meeting, April 15-21, 2016, Vancouver, BC, Canada. Poster Presentation.

33. **Longoni G**, Filippi M, Banwell B, Filippi M, Yeh EA. *Rituximab therapy as a first-line immunosuppressive treatment in children with neuromyelitis optica spectrum disorder: a single-center experience*. 2014 Neuroinflammation Symposium, March 26, 2014, Toronto, Ontario, Canada. Poster Presentation.
34. **Longoni G**, Momayyezsiakhkhal P, Brown RA, Elliott C, Filippi M, Banwell B, Narayanan S, Arnold DL, on behalf of The Canadian Pediatric Demyelinating Disease Network. *Diffusion tensor imaging reveals distinct patterns of white matter changes in pediatric monophasic demyelinating disorders and multiple sclerosis*. 2014 ECTRIMS Meeting, September 10-13, 2014, Boston, MA, USA. Poster Presentation.
35. **Longoni G**, Filippi M, Banwell B, Filippi M, Yeh EA. *Rituximab therapy as a first-line immunosuppressive treatment in children with neuromyelitis optica spectrum disorder: a single-center experience*. 2014 American Academy of Neurology (AAN) Annual Meeting, April 26 - May 3, 2014, Philadelphia, PA, USA. Poster Presentation.
36. **Longoni G**, Brown RA, Filippi M, Banwell B, Arnold DL, on behalf of The Canadian Pediatric Demyelinating Disease Network. *Differential remyelination potential in pediatric multiple sclerosis and monophasic demyelinating disorders*. 2014 Neuroinflammation Symposium, March 26, 2014, Toronto, Ontario, Canada. Poster Presentation.
37. Cittaro D, Esposito F, Patricelli MG, **Longoni G**, Weber G, Casari G, Ferrari M, Stupka E, Natali Sora MG. *Identification of HOMER3 as a Potential Novel Candidate Gene for Autoimmune Cerebellar Ataxia*. 2014 Internal Scientific Retreat of San Raffaele Scientific Institute and Hospital, San Raffaele Vita-Salute University, Milan, Italy. Poster Presentation.
38. **Longoni G**, Brown RA, Filippi M, Banwell B, Arnold DL, on behalf of The Canadian Pediatric Demyelinating Disease Network. *Differential remyelination potential in pediatric multiple sclerosis and monophasic demyelinating disorders*. 2013 endMS Meeting, December 10-13, 2013, Saint-Sauveur, Québec, Canada. Poster Presentation.
39. **Longoni G**, Rocca MA, Pagani E, Riccitelli G, Colombo B, Rodegher M, Falini A, Comi G, Filippi M. *Deficits in memory and spatial cognition correlate with regional hippocampal atrophy in multiple sclerosis*. 22nd Meeting of the European Neurological Society (ENS), Prague, 2012. Platform Presentation.
40. Agosta F, Pievani M, Svetel M, Jecmenica Lukic M, Copetti M, Tomic A, Scarale A, **Longoni G**, Comi G, Kostic VS, Filippi M. *Diffusion tensor imaging contributes to differentiate richardson's syndrome from progressive supranuclear palsy-parkinsonism*. 22nd Meeting of the European Neurological Society (ENS), Prague, 2012. Platform Presentation.
41. **Longoni G**, Rocca MA, Pagani E, Colombo B, Rodegher M, Falini A, Comi G, Filippi M. *Regional hippocampal involvement differs across multiple sclerosis clinical phenotypes: evidences from a radial mapping MR-based study*. 22nd Meeting of the European Neurological Society (ENS), Prague, 2012. Poster Presentation.
42. Agosta F, Scarlato M, **Longoni G**, Valsasina P, Sessa M, Bassi MT, Ferrari M, Falini A, Comi G, Filippi M. *Cervical cord atrophy in hereditary spastic paraparesis*. 22nd Meeting of the European Neurological Society (ENS), Prague, 2012. Poster Presentation.
43. **Longoni G**, Impellizzeri M, Fumagalli F, Guerriero R, Comi G, Natali Sora MG. *Post-traumatic dystonia and complex regional pain syndrome type I: a pediatric case*. XLII Meeting of Italian Neurological Society (SIN), Turin, 2011. Poster Presentation.

44. **Longoni G**, Fumagalli F, Previtali S, Amadio S, Del Carro U, Rovelli R, Poloniato A, Silvani P, Barera G, Comi G, Natali Sora MG. *Infant botulism mimicking congenital myasthenic syndrome: a case report*. 2011 Meeting of Italian Clinical Neurophysiology Society (SINC), Lecce, 2011. Poster Presentation.
45. **Longoni G**, Agosta F, Mattioli F, Comi G, Gasparotti R, Filippi M. *The overlap between the corticobasal degeneration syndrome and non-fluent aphasia*. 21st Meeting of the European Neurological Society (ENS), Lisbon, 2011. Platform Presentation.
46. **Longoni G**, Agosta F, Stojkovic T, Jecmenica M, Pagani E, Kostic VS, Filippi M. *MRI Measurements of brainstem structures in patients with Richardson's syndrome, progressive supranuclear palsy-parkinsonism, and Parkinson disease*. 19th Meeting of the European Neurological Society (ENS), Milan, 2009. Platform Presentation.
47. **Longoni G**, Agosta F, Pagani E, Petrolini M, Caputo D, Perini M, Salvi F, Prella A, Filippi M. *Diffusion tensor MRI tractography study of the brain white matter pathways in amyotrophic lateral sclerosis*. 7th European ALS Congress, Turin, 2009. Platform Presentation.

PRESENTATIONS

Invited Presentations – International

1. *New-onset refractory status epilepticus (NORSE) and febrile infection-related epilepsy syndrome (FIRES). An introduction with a review of the SickKids' internal acute management guidelines and recent patients*. Great Ormond Street Hospital (GOSH), Neuroscience Rounds. February 21st, 2024.
2. *Pediatric MS*. Joint Seminars in Neuroscience, November 20th, 2023. Foundation IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
3. *Clinical and therapeutic approach to acute brain inflammation during childhood*. Joint Seminars in Neuroscience, October 25th, 2023. Foundation IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
4. *MOG-associated disorders and MS "mimics"*. The 6th Saudi Pediatric Neurology Society Conference & Workshop Meeting 2021. 18-20 November 2021, Jeddah, Saudi Arabia.
5. *Pediatric MS: Mimics*. VI NaplesMeeting. Università degli Studi della Campania Luigi Vanvitelli, I Clinica Neurologica, Scuola di Medicina e Chirurgia, Virtual Platform. December 11th, 2020.
6. *Pediatric MS and Relapsing Demyelinating Disorders in Youth. Evolving Definitions*. 2019 Consortium of Multiple Sclerosis Centers (CMSC) Annual Meeting, June 2019, Seattle, WA, US.
7. *Pediatric Inflammatory Demyelinating Disorders. Multiple Sclerosis and its Differential Diagnosis*. Faculty of Medicine, Division of Neuroradiology, Ospedale Maggiore ca' Granda. University of Milan, Milan, Italy, October 26, 2018.

Invited Presentations – National (Canada)

1. 2022 MS Xchange Conference. *Brain tissue injury and repair in pediatric MS. Insights from structural MRI*. Montreal, November 3rd and 4th, 2022.
2. The Montreal Neurological Institute, McGill University, Department of Neurology & Neurosurgery, Faculty of Medicine & Health Sciences. Neurology Grand Rounds. *Paediatric MS & Co. A clinical overview*. Montreal, April 19th, 2023.
3. McMaster University, Department of Paediatrics, Division of Neurology. Neurology Grand Rounds. *New onset refractory status epilepticus (NORSE) and febrile infection-related epilepsy syndrome (FIREs): Experience and management approach at SickKids*. Toronto, February 9th, 2024 (upcoming).

Invited Presentations – The Hospital for Sick Children, Canada

1. *Academic half-day, Rheumatology Department. Neurologic manifestations of autoinflammation. An overview. May 30th, 202 (upcoming).*
2. *Immunity & Inflammation Cross Talk Presentation, 2022/05. “Evaluation of changes in structural MRI metrics in health and disease. Tools and techniques.”*
3. *Stem Cell Network (SCN) Investigator Meeting 2022/05. “Evaluation of changes in structural MRI metrics occurring after the administration of metformin”.*
4. *New Frontiers in Paediatric Neurosciences Conference, 2022/03. “Neurologic complications of COVID-19”.*
5. *SCN (SCN) Investigator Meeting 2021/01. “MRI Characterization of injury in pediatric MS and MOG-associated disorders”*
6. *Neurology Grand Rounds. 2018/02. Neuroimaging in Pediatric Multiple Sclerosis.*
7. *Neurology Grand Rounds, 2016/01. Acquired Demyelinating Disorders in Children.*
8. *Neurology Grand Rounds. 2014/05, Brain Injury and Neurodevelopment Trajectories in Children with Acute Demyelinating Syndromes.*

CLINICAL TRIALS

- 2021 – present **Sub-Investigator**. NEOS BAF312D2301. “Efficacy and Safety of Ofatumumab and Siponimod Compared to Fingolimod in Pediatric Patients With Multiple Sclerosis (NEOS)”. Novartis Pharmaceutical. Basel, Switzerland.
- 2021 – present **Sub-Investigator**. METE OROID (WN43194). “A Phase III, randomized, Double- Blind, Placebo- Controlled, Multicenter Study to Evaluate the Efficacy, Safety, Pharmacokinetics, and Pharmacodynamics of Satralizumab as Monotherapy or in addition to Baseline Therapy in Patients with Myelin Oligodendrocyte glycoprotein Antibody-associated disease (MOGAD)”. Roche.
- 2010 – 2011 **Sub-Investigator**. GLPG0303-CL-204. “A randomized, international, multi-centre study to assess the efficacy and safety of intravenous PEG-liposomal prednisolone sodium

phosphate (Nanocort®) vs intravenous methylprednisolone (Solu-Medrol®) treatment in patients with acute exacerbation of relapsing-remitting Multiple Sclerosis or in patients with clinically isolated syndrome (CIS)". Galapagos NV, General De Wittelaan, L11A3, Belgium.

- 2009 – 2014 ***Sub-Investigator.*** MS-LAQ 301 Extension. "A Multinational, Multicenter, Open-label, Single-assignment Extension of the MS-LAQ-301 (ALLEGRO) Study, to Evaluate the Long-term Safety, Tolerability and Effect on Disease Course of Daily Oral Laquinimod 0.6 mg in Subjects With Relapsing MS". Teva Pharmaceutical Industries LTD, Israel.
- 2007 – 2010 ***Sub-Investigator.*** MS-LAQ 301 (ALLEGRO) Study. "A Multinational, Multicenter, Open-label Study to Evaluate the Long-term Safety, Tolerability and Effect on Disease Course of Daily Oral Laquinimod 0.6 mg in Subjects With Relapsing MS". Teva Pharmaceutical Industries LTD, Israel.