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Curriculum Vitae: Christian Cordano, MD PhD

Education

- 1 January 2014- 4th April 2017: PhD program in Experimental Medicine at the University of Genoa, Genoa, Italy. Project title: “Ultra-High resolution optical coherence tomography in experimental autoimmune encephalomyelitis – a model for understanding the clinical role for OCT in Multiple Sclerosis”.
- 27th March 2013: Italian Board of Neurology: completed with honors.
- 1st January 2009- 6th April 2013: Residency in Cognitive Behavioral Therapy. Miller Institute, Genova.
- 1st March 2008: Admission to the residency program in Neurology at the University of Genoa.
- 19th October 2007: MD degree, University of Genoa, Italy.

Research experience

- 1st of March 2023 - today: Part-time Researcher at the University of Genoa, funded by the Italian Foundation for Multiple Sclerosis (FISM). Rita Levi Montalcini Fellowship – grant n. 2019/BC/002
- 14th August 2014 - today: Visiting Scholar, then Post-Doctoral Research Fellow (starting on 1st October 2016), then Associate Researcher (starting 1st November 2021) at Dr. Ari Green’s Lab, within the Division of Neuroinflammation and Glial Biology (previously Neuroimmunology) at UCSF, funded initially by a fellowship from FISM (Italian Multiple Sclerosis Foundation) until August 2016.

My work focuses on visual electrophysiologic alterations in experimental autoimmune encephalomyelitis and in multiple other animal models of demyelination (including transgenic models), in an attempt to characterize the course of electrophysiologic alterations and neuronal injury following demyelination, as well as the effect of reparative therapies in MS. I am also working on clinical research studies focused on the dynamics of retinal atrophy in MS, measuring the efficacy of OCT in predicting disability worsening in MS, both by itself and in combination with MRI metrics. My most recent work has focused on 1) preclinical biomarkers of remyelination, 2) on the description of a retinal biomarker of accumulation of disability, 3) and on secondary analysis of the REBUILD clinical trial data.

- 7th April 2013- 13th August 2014: fellowship in Neuroimmunology, Dr. Antonio Uccelli lab, University of Genoa, Genoa, Italy.

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- 1st March 2008- 6th April 2013: Multiple Sclerosis Research Group, University of Genoa, Genoa, Italy. Contact person: Gianluigi Mancardi, MD, Antonio Uccelli, MD.
- 1st March 2008-14th August 2014: Neuro-Ophthalmology Research Group, University of Genoa, Genoa, Italy. Contact person: Fabio Bandini, MD.
- 1st February 2010- 6th April 2013: Parkinson Research Group, University of Genoa, Genoa, Italy. Contact person: Giovanni Abbruzzese, MD.

Clinical experience and teaching experience

- 1st March 2023- ongoing: Part-time Faculty of Neurology and Neuroscience at the University of Genoa (Teaching Neurology and Neuroscience at School of 1) Medicine, 2) Sport Sciences, 3) Orthoptics and ophthalmological assistance, 4) Professional training, 5) Physiotherapy, 6) Nursing, 7) PhD in Neuroscience).
- February 2022- June 2022: Part-time Faculty at the Biology Dept. of the University of San Francisco (USF)
- August 2016-October 2016: Medical Director of the Protected Residence / Rehabilitation Center “Villa San Pietro” located in Salita Sup. San Rocchino 49, Genova, Italy.
- 1st March 2008- 13th July 2014: Neurology outpatient and inpatient service, Neurological Clinic, University of Genoa, Genoa, Italy. I was actively involved in the sub-specialist outpatient care services of patients with Multiple Sclerosis (mentor: Prof. Antonio Uccelli), Parkinson Disease (mentor: Prof. Giovanni Abbruzzese) and Neuro-Ophthalmologic conditions (mentor: Dr. Fabio Bandini). Contacts: Giovanni Abbruzzese, Antonio Uccelli, Fabio Bandini.
- 1st January 2009- 13th July 2014: Professor of Neuroanatomy and General Physiology at the European Institute for Osteopathic Medicine (IEMO). 1st October 2012- 13th July 2014: Professor of Neurophysiology at the European Institute for Osteopathic Medicine (IEMO). Contact: Prof. Luigi Ciullo (luigi.ciullo@univerosteo.it)
- 7th April 2013- 13th July 2014: neurologist at the GCLA (severe acquired cerebro-lesions) Department dealing with neurological and psychiatric pathology of patients with severe cerebral lesions at the Rehabilitation Center R.S.A. City of Genoa is located in Via Bolzano, Genova. Contact: Prof. Giovanni Regesta (giovanniregesta@gruppopides.it)
- 1st July 2013- 30th July 2014: Medical Director of the Protected Residence / Rehabilitation Center “Villa San Pietro” located in Salita Sup. San Rocchino 49, Genova, Italy.
- 1st July 2013- 30th July 2014 and August 2016-October 2016: consultant neurologist at the Italian Multiple Sclerosis Association (AISM)

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Editor/Referee/Reviewer:

Guest Editor for the research topic in *Frontiers in Neurology*: “CSF and blood biomarkers in COVID-19 and other neuroinfectious diseases”

Review Editor for:

- *Frontiers in Neurology*,
- *Frontiers in Immunology*.

“ad hoc” reviewer for:

- *JAMA Neurology*,
- *Brain*,
- *Brain Communications*,
- *Annals of Clinical and Translational Neurology*,
- *Journal of Neurology*,
- *Journal of Neurological Sciences*,
- *Experimental Neurology*,
- *Journal of Clinical Neurology*,
- *Journal of Controlled Release*,
- *Journal of NeuroVirology*,
- *Clinical neurology and neurosurgery*,
- *Disability and Rehabilitation*,
- *Multiple Sclerosis and Related Disorders*,
- *Multiple Sclerosis Journal*,
- *Medicine*,
- *Neurology, Neuroimmunology and Neuroinflammation*,
- *Neurological Research*,
- *Diagnostics*,

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- *Vaccines.*

Grant reviewer for:

ARSEP Foundation, the French Multiple Sclerosis Research Society.

NIH/OD oculomics

Professional Affiliations & Leadership Roles

- Società Italiana di Neurologia (**SIN**), since 2009
- International Multiple Sclerosis Visual System Consortium (**IMSVISUAL**), since 2015
- **Board of Directors (Junior Member), International Multiple Sclerosis Visual System Consortium (IMSVISUAL)** – Since March 2025. IMSVISUAL is an international collaborative network focused on advancing research on the visual system in multiple sclerosis (MS) and related neurodegenerative diseases. Election to the Board of Directors follows a nomination and selection process based on scientific contributions, engagement in IMSVISUAL activities, and commitment to fostering collaborative research.

Honors

- **Best Poster at Italian MS Foundation (FISM) Congress** (Rome, May **2016**) title “*Ultra-High resolution optical coherence tomography in experimental autoimmune encephalomyelitis – a model for understanding the clinical role for OCT in MS*”
- **Best Scientific Research Project, Italian Society of Ophthalmology (SOI) 2016:** 2nd place
- **Travel grant-in-aid, ACTRIMS Congress** (Orlando, February **2017**) (500 \$) for the oral presentation; “*Predicting visual function clinical outcome in MS: a MRI and OCT metrics study*”.
- **Best Scientific Research Project, Italian Society of Ophthalmology (SOI) 2017:** 1st place (15.000 euro). Co-authors: Prof. Michele Iester and Prof. Antonio Uccelli.
- **Research award A.I.S.G. - Omikron** “In memory of Marco Centofanti” on neuroprotection and glaucoma **2018** (30.000 euro) for the project “*OCT evaluation of the neuroprotective potential of mesenchymal stem cell transplantation in an animal model of open-angle glaucoma*”
- “**Summa cum Laude**” prize at **27th ISMRM conference (Montreal, May 11-16 2019)** (top 3% oral presentation) for the project “Metabolic imaging of brain inflammation using hyperpolarized ¹³C MRSI of pyruvate and urea in a mouse model of multiple sclerosis” (2nd author).

- **Italian Foundation for MS (FISM) 2020 - Rita Levi Montalcini Career Fellowship** “*Visual evoked potential and optical coherence tomography in EAE – a model for understanding the neuropathology of the immune reaction to different antigens in multiple sclerosis*”.
- **Top-ranked poster at ECTRIMS 2021** with the project “*Differences in age-related retinal and cortical atrophy rates in multiple sclerosis*”
- **AAN Abstract Invited Paper at the AAN 2022 in Seattle** with the project: “Differences in age-related retinal and cortical atrophy rates in multiple sclerosis” (The Neurology Editors review and choose a select few outstanding abstracts of interest, inviting the author to submit the research to Neurology)
- **Top-ranked poster at ECTRIMS 2022** with the project “*Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double-blind placebo-controlled clinical trial*”
- **Top-ranked poster at SIN 2022 (Milan)** with the project “Validating visual evoked potentials as a preclinical, quantitative biomarker for remyelination efficacy”
- **Best Poster prize** (5 out of around 1500 abstracts) at **ECTRIMS 2022** (26-28 October, Amsterdam) with the project “*Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double-blind placebo-controlled clinical trial*”(1200 euro)

Grants

Two years Fellowship FISM 2013/B/4, Project “Ultra-High resolution optical coherence tomography in experimental autoimmune encephalomyelitis – a model for understanding the clinical role for OCT in MS” (66.600 \$). Role: PI

I developed a novel approach to perform longitudinal VEPs in mice with exceptional reproducibility and reliability with a mean standard deviation on 3 repeated recordings on consecutive days in healthy mice of 1.47 ms (range 0.45- 2.40 ms). My experiments showing that VEP latency delay improves after treatment with a tool remyelinating compound in different models of demyelination, mirroring quantitative/qualitative myelin assessment contributed to an **NIH RO1** award for Dr. Ari J Green. “Establishing VEP as a quantitative biomarker for remyelination using transgenic models for gain and loss of function” **NIHR01NS105741 May 15, 2018 - Feb 28, 2023**”

Collaborator for the NIH RO1 award for Dr. Michael Geschwind’s “Tracking longitudinal change in presymptomatic genetic prion disease (TLC-Pre-gPrD)” **NIHR01AG062562 (Aug 1, 2019 - May 31, 2024)**, being in charge of the study of retinal abnormalities in genetic presymptomatic and symptomatic prion disease.

Three years Rita Levi Montalcini Fellowship – FISM grant n. 2019/BC/002 (2023-2026). Project “Visual evoked potential and optical coherence tomography in EAE – a model for understanding the neuropathology of the immune reaction to different antigens in MS” (466.000 \$). Role: PI

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Four years Food and Drug administration Rare Neurodegenerative Disease Grant from the FDA Office of Orphan Products Development (OOPD). Title: “Biomarker study in CADASIL to evaluate retinal imaging biomarkers” PI: Jane Paulsen from University of Wisconsin-Madison (Madison, Wisconsin) (1st of January 2025- 31st December 2028) (5 millions). Role: Co-investigator

Supervising and Mentoring activity

I mentored for 2~4 years several post-baccalaureate students working as research associates and clinical coordinators at the Green Lab. Hao Yiu started 5 years ago a PhD program at the University of Maryland, College Park; Garrett Timmons will soon start his residency in Neurology at Stanford University after graduating from the UCSD Medical School; Sam Arnow; Michael Devereaux, Nicholas Baker, Justin Inman, Shivany Condor Montes, Kirtana Ananth, and Daniel Bennett are currently enrolled or recently graduated as medical doctors. Jung Hyung Sin and Tracy Tran are currently working in Biotech companies. I am currently mentoring Alexandra Beaudry-Richard, MD-PhD student at the University of Ottawa/UCSF, Nora Jabassini, Angelica Montevirgen, and Isaac Samana, post-baccalaureate students.

Partecipation in Industrial Innovation

I worked performing VEP experiments at Inception Science (Biotech company), SD. I participated in describing the remyelinating profile of 2 recently discovered compounds. Contacts: Brian Stearns (bstearns@inceptionsci.com) and Daniel Lorrain (dan@pipeline-tx.com) At least two companies, (Pipeline, San Diego and Roche) started recently a preclinical VEP lab for the study of remyelinating drugs based on my work.

Invited talks:

“Neuro-ophthalmological emergencies: comparing experiences:” SIN webinar, May 28-29, 2022.

“Longitudinal study of optic atrophy in multiple sclerosis” in the context of the SIN webinar about “OCT and Neurological diseases,” February 23, 2022.

Lectio magistralis: “The anterior visual pathway as a model for studying neurodegeneration and remyelination in multiple sclerosis and demyelinating diseases” at the conference Neuro-immunologic diseases, from symptom to therapy, Lecco, September 23, 2022

“Demyelinating optic neuritis,” December 4th, 2022, SIN 2022, Milan.

“Remyelination: a journey from basic science to clinical research” March 17, 2023, University of Insubria, Varese, Italy

“The anterior visual pathway as a model for studying neurodegeneration and remyelination” Neurophthalmology Update for Clinicians 2023 SIENA September 16 2023

“Fostering endogenous repair of the CNS in multiple sclerosis: the clemastine story” December 4, 2023, auditorium Centro Congressi del Policlinico San Martino, University of Genoa

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“The retina as a model for the study of neurodegeneration in demyelinating pathology” January 18, 2024, as part of the Session “Multimodal imaging in neuroscience”, Macula Conference, Genoa, Italy.

“Ongoing trials in Neuro-Ophthalmology Symposium. Remyelination: optic neuritis and internuclear ophthalmoplegia”. June 4, 2024, UNOS 2024, Rotterdam, Nederland.

“Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis” in the context of the “neuro-ophthalmological update for clinicians 2024” – June 22-23, 2024, Palermo, Italy.

“Functional Markers in Pre-clinical Research” in the context of the” IMSVISUAL Summer School”, Toronto, July 18, 2024.

“Synaptic injury as a predictive marker for neuronal loss and functional outcome in acute optic neuritis”, iMSvisual conference during ECTRIMS, Copenhagen, September 18, 2024.

“Assessing Synaptic Injury through Retinal Inner Plexiform Layer Thickness”, University of Siena, December 20, 2024.

“Retinopathy and progression in multiple sclerosis” in the context of the conference “Optic nerve diseases: diagnostic challenges and multidisciplinary approach”, Ferrara, February 27-28, 2025

“The visual pathway as a model for studying neurodegeneration and remyelination in demyelinating diseases”, Neurology Grand Rounds at University Hospitals Cleveland Medical Center, Cleveland, March 13, 2025

Session Chair

International:

ECTRIMS 2023, Milan, Italy. Session “Free Communications 6: Real world evidence (RWE) - Clinical course” 13 October 2023.

EUNOS 2024, Rotterdam, Nederland. Session “New treatments in neuro-ophthalmology symposium” 6 June 2024.

Recent publications

1. Abdelhak A, **Cordano C**, Duncan GJ, Emberley K, Nocera S, Ananth K, Jabassini N, Ning K, Reinsberg H, Oertel FC, Beaudry-Richard A, Kuhle J, Petzold A, UKBB Eye and Vision Consortium, Watkins T, Chan J, Emery B, Green AJ. Markers of Axonal Injury in Blood and Tissue Triggered by Acute and Chronic Demyelination. Brain, in press.
2. Bsteh G, Hegen H, Albrecht P, Havla J, **Cordano C**, Yeh EA, Saidha S. Emphasizing complementary in "Investigating the complementary value of OCT to MRI in cognitive impairment

- in relapsing-remitting multiple sclerosis". *Mult Scler*. 2025 Apr 12;13524585251329800. doi: 10.1177/13524585251329800. Epub ahead of print. PMID: 40219832.
3. Beaudry-Richard A, Abdelhak A, Saloner R, Sacco S, Montes SC, Oertel FC, **Cordano C**, Jabassini N, Ananth K, Gomez A, Keihani A, Chapman M, Javvadi S, Saha S, Staffaroni A, Songster C, Warren M, Boscardin JW, Kramer J, Miller B, Miller JW, Green R, Green AJ. Vitamin B12 Levels Association with Functional and Structural Biomarkers of Central Nervous System Injury in Older Adults. *Ann Neurol*. 2025 Feb 10. doi: 10.1002/ana.27200. Epub ahead of print. PMID: 39927551.
 4. **Cordano C**, Waubant E, Nourbakhsh B. The observation of seasonal variation of fatigue in multiple sclerosis depends on the measurement instrument. *Mult Scler Relat Disord*. 2024 Dec 28;94:106252. doi: 10.1016/j.msard.2024.106252. Epub ahead of print. PMID: 39742689.
 5. Duncan GJ, Ingram SD, Emberley K, Hill J, **Cordano C**, Abdelhak A, McCane M, Jabassini N, Ananth K, Ferrara SJ, Stedelin B, Sivyer B, Aicher SA, Scanlan T, Watkins TA, Mishra A, Nelson J, Green AJ, Emery B. Remyelination protects neurons from DLK-mediated neurodegeneration. *Nat Commun* 15, 9148 (2024). <https://doi.org/10.1038/s41467-024-53429-5>
 6. Tan LX, Oertel FC, Cheng A, Cobigo Y, Keihani A, Bennett DJ, Abdelhak A, Montes SC, Chapman M, Chen RY, **Cordano C**, Ward ME, Casaletto K, Kramer JH, Rosen HJ, Boxer A, Miller BL, Green AJ, Elahi FM, Lakkaraju A. Targeting complement C3a receptor resolves mitochondrial hyperfusion and subretinal microglial activation in progranulin-deficient frontotemporal dementia. *bioRxiv* [Preprint]. 2024 Jun 1:2024.05.29.595206. doi: 10.1101/2024.05.29.595206. PMID: 38854134; PMCID: PMC11160746.
 7. **Cordano C**, Werneburg S, Abdelhak A, Bennett DJ, Beaudry-Richard A, Duncan GJ, Oertel FC, Boscardin WJ, Yiu HH, Jabassini N, Merritt L, Nocera S, Sin JH, Samana IP, Condor Montes SY, Ananth K, Bischof A; UCSF MS EPIC Team; Nourbakhsh B, Hauser SL, Cree BAC, Emery B, Schafer DP, Chan JR, Green AJ. Synaptic injury in the inner plexiform layer of the retina is associated with progression in multiple sclerosis. *Cell Rep Med*. 2024 Apr 16;5(4):101490. doi: 10.1016/j.xcrm.2024.101490. Epub 2024 Apr 3. PMID: 38574736; PMCID: PMC11031420.
 8. Oertel FC, Casillas D, Cobigo Y, Condor Montes S, Heuer HW, Chapman M, Beaudry-Richard A, Reinsberg H, Abdelhak A, **Cordano C**, Boeve BF, Dickerson BC, Grossman M, Huey E, Irwin DJ, Litvan I, Pantelyat A, Tartaglia MC, Vandevrede L, Boxer A, Green AJ. Scientific commentary on: "Phosphorylated tau in the retina correlates with tau pathology in the brain in Alzheimer's disease and primary tauopathies". *Acta Neuropathol*. 2024 Feb 3;147(1):30. doi: 10.1007/s00401-023-02656-z. PMID: 38308717; PMCID: PMC10838223.
 9. Nocera S, Marchena MA, Fernández-Gómez B, Gómez-Martín P, Sánchez-Jiménez E, Macías-Castellano A, Laó Y, **Cordano C**, Gómez-Torres Ó, Luján R, de Castro F. Activation of Shh/Smo is sufficient to maintain oligodendrocyte precursor cells in an undifferentiated state and is not necessary for myelin formation and (re)myelination. *Glia*. 2024 May 21. doi: 10.1002/glia.24540. Epub ahead of print. PMID: 38771121.

10. Schlaeger R*, **Cordano C***, Papinutto N, Caverzasi E, Kirkish G, Baker N, Bevan C, Bischof A, Bove R, Datta E, Devereux M, Gelfand JM, Graves JS, Grize L, Jordan KM, Keshavan A, Stern WA, Wilson M, Waubant E, Zhu AH, Goodin DS, Cree BAC, Hauser SL, Green AJ, Henry RG. Spinal cord gray matter & ganglion cell layer atrophy in early MS. *Neurol Neuroimmunol Neuroinflamm*, under review.
11. Abdelhak A, Benkert P, Schaedelin S, Boscardin WJ, **Cordano C**, Oechtering J, Ananth K, Granziera C, Melie-Garcia L, Montes SC, Beaudry-Richard A, Achtnichts L, Oertel FC, Lalive PH, Leppert D, Müller S, Henry RG, Pot C, Matthias A, Salmen A, Oksenberg JR, Disanto G, Zecca C, D'Souza M, Du Pasquier R, Bridel C, Gobbi C, Kappos L, Hauser SL, Cree BAC, Kuhle J, Green AJ; UCSF, MS EPIC, and the SMSC Study Teams. Neurofilament Light Chain Elevation and Disability Progression in Multiple Sclerosis. *JAMA Neurol*. 2023 Nov 6:e233997. doi: 10.1001/jamaneurol.2023.3997. Epub ahead of print. PMID: 37930670; PMCID: PMC10628837.
12. Mantero V, **Cordano C**, Balgera R, Basilico P, Novi G, Salmaggi A. Serum sickness in a multiple sclerosis patient treated with ocrelizumab. *J Neurol*. 2023 Oct 31. doi: 10.1007/s00415-023-12082-6. Epub ahead of print. PMID: 37907726.
13. Foschi M, Abu-Rumeileh S, Massa F, **Cordano C**, Abdelhak A. Editorial: CSF and blood biomarkers in COVID-19 and other neuroinfectious diseases. *Front Neurol*. 2023 Jul 11;14:1239750. doi: 10.3389/fneur.2023.1239750. PMID: 37497014; PMCID: PMC10368364.
14. Mantero V, Basilico P, Balgera R, Rigamonti A, Sozzi M, Salmaggi A, **Cordano C**. Flu-like syndrome due to interferon-beta injections does not increase anxiety, depression, and lost working days in multiple sclerosis patients during the Sars-CoV-2 pandemic. *Clin Neurol Neurosurg*. 2023 Sep;232:107892. doi: 10.1016/j.clineuro.2023.107892. Epub 2023 Jul 13. PMID: 37454600.
15. Guglielmetti C, **Cordano C**, Najac C, Green AJ, Chaumeil MM. Imaging immunomodulatory treatment responses in a multiple sclerosis mouse model using hyperpolarized ¹³C metabolic MRI. *Commun Med (Lond)*. 2023 May 22;3(1):71. doi: 10.1038/s43856-023-00300-1. PMID: 37217574; PMCID: PMC10202949.
16. Caverzasi E*, Papinutto N*, **Cordano C***, Kirkish G, Gundel TJ, Zhu A, Akula AV, Boscardin WJ, Neeb H, Henry RG, Chan JR, Green AJ. MWF of the corpus callosum is a robust measure of remyelination: Results from the ReBUILD trial. *Proc Natl Acad Sci U S A*. 2023 May 16;120(20):e2217635120. doi: 10.1073/pnas.2217635120. Epub 2023 May 8. PMID: 37155847; PMCID: PMC10193980.
17. Oertel FC, Krämer J, Motamedi S, Keihani A, Zimmermann HG, Dimitriou NG, Condor-Montes S, Bereuter C, **Cordano C**, Abdelhak A, Trip A, Aktas O, Meuth SG, Wiendl H, Ruprecht K, Bellmann-Strobl J, Paul F, Petzold A, Brandt AU, Albrecht P, Green AJ. Visually Evoked Potential as Prognostic Biomarker for Neuroaxonal Damage in Multiple Sclerosis From a Multicenter Longitudinal Cohort. *Neurol Neuroimmunol Neuroinflamm*. 2023 Mar 6;10(3):e200092. doi: 10.1212/NXI.0000000000200092. PMID: 36878713; PMCID: PMC10026703.
18. Kapell H, Fazio L, Dyckow J, Schwarz S, Cruz-Herranz A, Mayer C, Campos J, D'Este E, Möbius W, **Cordano C**, Pröbstel AK, Gharagozloo M, Zulji A, Narayanan Naik V, Delank A, Cerina M,

- Müntefering T, Lerma-Martin C, Sonner JK, Sin JH, Disse P, Rychlik N, Sabeur K, Chavali M, Srivastava R, Heidenreich M, Fitzgerald KC, Seebohm G, Stadelmann C, Hemmer B, Platten M, Jentsch TJ, Engelhardt M, Budde T, Nave KA, Calabresi PA, Frieze MA, Green AJ, Acuna C, Rowitch DH, Meuth SG, Schirmer L. Neuron-oligodendrocyte potassium shuttling at nodes of Ranvier protects against inflammatory demyelination. *J Clin Invest*. 2023 Apr 3;133(7):e164223. doi: 10.1172/JCI164223. PMID: 36719741; PMCID: PMC10065072.
19. Masala A, Mola ID, Cellerino M, Pera V, Vagge A, Uccelli A, **Cordano C**, Traverso CE, Iester M. Erratum: Choroidal Thickness in Multiple Sclerosis: An Optical Coherence Tomography Study. *J Clin Neurol*. 2022 Sep;18(5):601. doi: 10.3988/jcn.2022.18.5.601. Erratum for: *J Clin Neurol*. 2022 May;18(3):334-342. PMID: 36062780; PMCID: PMC9444557.
 20. **Cordano C**, Nourbakhsh B, Yiu HH, Papinutto N, Caverzasi E, Abdelhak A, Oertel FC, Beaudry-Richard A, Santaniello A, Sacco S, Bennett DJ, Gomez A, Sigurdson CJ, Hauser SL, Magliozzi R, Cree BAC, Henry RG, Green AJ. Differences in Age-related Retinal and Cortical Atrophy Rates in Multiple Sclerosis. *Neurology*. 2022 Oct 11;99(15):e1685-e1693. doi: 10.1212/WNL.0000000000200977. Epub 2022 Aug 29. PMID: 36038272; PMCID: PMC9559941.
 21. Abdelhak A, Solomon I, Montes SC, Saias A, **Cordano C**, Asken B, Fonseca C, Oertel FC, Arfanakis K, Staffaroni AM, Kramer JH, Geschwind M, Miller BL, Elahi FM, Green AJ. Retinal arteriolar parameters as a surrogate marker of intracranial vascular pathology. *Alzheimers Dement (Amst)*. 2022 Jul 5;14(1):e12338. doi: 10.1002/dad2.12338. PMID: 35814617; PMCID: PMC9257197.
 22. **Cordano C**, Sin JH, Timmons G, Yiu HH, Stebbins K, Guglielmetti C, Cruz-Herranz A, Xin W, Lorrain D, Chan JR, Green AJ. Validating visual evoked potentials as a preclinical, quantitative biomarker for remyelination efficacy. *Brain*. 2022 Jun 9:awac207. doi: 10.1093/brain/awac207. PMID: 35678509.
 23. **Cordano C**, Yiu HH, Abdelhak A, Beaudry-Richard A, Oertel FC, Green AJ. Reply to "Interpretation of Longitudinal Changes of the Inner Nuclear Layer in MS". *Ann Neurol*. 2022 Jul;92(1):156. doi: 10.1002/ana.26367. Epub 2022 Apr 21. PMID: 35403744.
 24. Abdelhak A, **Cordano C**, Boscardin WJ, Caverzasi E, Kuhle J, Chan B, Gelfand JM, Yiu HH, Oertel FC, Beaudry-Richard A, Condor Montes S, Oksenberg JR, Lario Lago A, Boxer A, Rojas-Martinez JC, Elahi FM, Chan JR, Green AJ. Plasma neurofilament light chain levels suggest neuroaxonal stability following therapeutic remyelination in people with multiple sclerosis. *J Neurol Neurosurg Psychiatry*. 2022 Jun 16:jnnp-2022-329221. doi: 10.1136/jnnp-2022-329221. PMID: 35710320.
 25. Cruz-Herranz A, Oertel FC, Kim K, Cantó E, Timmons G, Sin JH, Devereux M, Baker N, Michel B, Schubert RD, Rani L, **Cordano C**, Baranzini SE, Green AJ. Distinctive waves of innate immune response in the retina in experimental autoimmune encephalomyelitis. *JCI Insight*. 2021 Jun 8;6(11):149228. doi: 10.1172/jci.insight.149228.
 26. Petzold A, Albrecht P, Balcer L, Bekkers E, Brandt AU, Calabresi PA, Deborah OG, Graves JS, Green A, Keane PA, Nij Bijvank JA, Sander JW, Paul F, Saidha S, Villoslada P, Wagner SK, Yeh

- EA; IMSVISUAL, ERN-EYE Consortium. Artificial intelligence extension of the OSCAR-IB criteria. *Ann Clin Transl Neurol*. 2021 May 19. doi: 10.1002/acn3.51320.
27. Nourbakhsh B*, **Cordano C***, Asteggiano C*, Ruprecht K, Otto C, Rutatangwa A, Lui A, Hart J, Flanagan EP, James JA, Waubant E. Multiple Sclerosis Is Rare in Epstein-Barr Virus-Seronegative Children with Central Nervous System Inflammatory Demyelination. *Ann Neurol*. 2021 Mar 11. doi: 10.1002/ana.26062. Epub ahead of print. PMID: 33704815.
28. Sormani MP, De Rossi N, Schiavetti I, Carmisciano L, Cordioli C, Moiola L, Radaelli M, Immovilli P, Capobianco M, Trojano M, Zaratin P, Tedeschi G, Comi G, Battaglia MA, Patti F, Salvetti M; Musc-19 Study Group. Disease-Modifying Therapies and Coronavirus Disease 2019 Severity in Multiple Sclerosis. *Ann Neurol*. 2021 Apr;89(4):780-789. doi: 10.1002/ana.26028. Epub 2021 Feb 9. PMID: 33480077; PMCID: PMC8013440.
29. Mantero V, Abate L, Salmaggi A, **Cordano C**. Multiple sclerosis and COVID-19: How could therapeutic scenarios change during the pandemic? *J Med Virol*. 2021 Apr;93(4):1847-1849. doi: 10.1002/jmv.26796. Epub 2021 Jan 22. PMID: 33448419; PMCID: PMC8014825.
30. **Cordano C**, Ramos C, Arnow S, Cruz-Herranz A, Guglielmetti C, Iester M, Bandini F. Inflammation in the anterior visual pathway in multiple sclerosis: what do the animal models teach us? *Neuroimmunology and Neuroinflammation*, ISSN: 2349-6142
31. Nourbakhsh B, Revirajan N, Morris B, **Cordano C**, Creasman J, Manguinao M, Krysko K, Rutatangwa A, Auvray C, Aljarallah S, Jin C, Mowry E, McCulloch C, Waubant E. Safety and efficacy of amantadine, modafinil, and methylphenidate compared with placebo for fatigue in multiple sclerosis: a randomized, crossover, double-blind trial. *Lancet Neurology*, ISSN: 1474-4465
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“Stem cell-dependent therapies-mesenchymal stem cells in chronic inflammatory disorders” October 31, 2013 by Gerhard Gross (Editor), Thomas Haupi (Editor)

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- S. Colicchio, G. Perugi “Electroretinographic (ERG) assessment in Major Depressive Disorder (MDD) patients receiving duloxetine: might differences between responders and non-responders indicate a differential biological background?” MED PSY FORUM, Second Course (Servier/Stroder Europa), Cascais, Portugal, 26-29 October 2011 (poster)
- c. Viani E, Pardini M, **Cordano C**, Abbruzzese G, Mancardi G, Trompetto C, Fulcheri E, Cocito L. “A case of cerebral and peripheral vasculitis with aspergillus lung infection”. XLII Italian Society of Neurology Annual Congress. 2011 (poster)
 - d. **Cordano C**, Massucco D, Pardini M, Marchese R, Aiello A, Abbruzzese G, Schenone A. “Levodopa-induced leukopenia. A case report”. XLII Italian Society of Neurology Annual Congress 2011 (poster)
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 - h. M. Fornaro, F. Bandini, C. Ogliastro, **C. Cordano**, M. Martino, L. Cestari, A. Escelsior, G. Rocchi, S. Colicchio, G. Perugi “Valutazione elettroretinografica (ERG) in pazienti con depressione maggiore in trattamento con duloxetina: differenza tra “responders” e “nonresponders” quale possibile indice di un pattern biologico differenziale”. P142, SOPSI 2012, Roma, 14-18 February 2012. (poster)
 - i. **C. Cordano**, G. Abbruzzese. A case of hyperekplexia responding to intravenous immunoglobulin. Liguria Parkinson, Savona (SV), 20-21 April 2012 (oral presentation)
 - j. **C. Cordano**, A. Schenone, G. Abbruzzese, R. Marchese, L. Schembri*, F. Marino*, B. Parodi, A. Uccelli, M. Cosentino. “Neutropenia-induced leukopenia in Parkinson’s disease: a case report”. 39° LIMPE Congress. 2012 (poster)
 - k. Parodi B., **Cordano C.**, Giunti D., Usai C, Kerlero de Rosbo N., Scannevin R.H., Uccelli A. “Monomethyl Fumarate induces a switch of activated microglia from a pro-inflammatory to a neuroprotective phenotype”. XXII Italian Association of Neuroimmunology congress (AINI), Catania, 2012 (oral communication)
 - l. **C. Cordano**, M. Pardini, A. Seitun, G. Mancardi “The Neurological Clinic of Genoa”. XLIII Italian Society of Neurology Annual Congress. Milano, Italy, 2-5 November 2013 (poster)
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- t. **C. Cordano**, L. Mazzella, C. Ogliastro, M. Cellerino, L. Vestito, F. Bandini “Simultaneous recording of primary and cognitive visual evoked potentials in Multiple Sclerosis. Analysis of the relationship between primary visual and visuocognitive processing impairment and correlation with neuropsychological testing” 54° SNO congress, Genova, 21-23 May 2014 (poster)
- u. M. Cellerino, **C. Cordano**, F. Bandini “Contralateral pursuit deficit from unilateral pontine damage” 54° SNO congress, Genova, 21-23 May 2014 (poster)
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- w. G Brichetto, A Tacchino, R Teodorescu, L Roccatagliata, G Bommarito, **C Cordano**, GL Mancardi, M Inglese, MA Battaglia “Brain activity during motor imagery in multiple sclerosis” ACTRIMS-ECTRIMS MSBoston 2014 10-13 September 2014 (poster)
- x. Parodi B, **Cordano C**, Morando S, Bragoni A, Giunti D, Usai C, Centonze D, Kerlero de Rosbo N, Scannevin R, Uccelli A. “Monomethyl fumarate inhibits the NFkB pathway and pro-inflammatory cytokine expression in microglia through HCA2 signaling via the AMPK/Sirt axis”. Atti del XXIV Italian Association of Neuroimmunology congress (AINI), Sorrento (Na), Italy, 1-4 October 2014. (oral communication)
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- z. **Cordano C**, Petracca M, Rubin P, Farrell C, Miller A, Lublin F and Inglese M “Relationship between RNFL thickness and brain cortical lesions in primary-progressive MS” AAN (American Academy of Neurology) congress, Washington, 18-25 April 2015:
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- ee. D. Arnaldi, M. Cellerino, C. Lapucci, V. Pietranera, F. Famà, F. De Carli, A. Masala, S. Morbelli, M. Iester, **C. Cordano**, A. Uccelli, F. Nobili. Optical Coherence Tomography in idiopathic REM sleep behavior disorder (RBD). ESRS congress, Bologna, 13 - 16 September 2016
- ff. **Cordano C***, Caverzasi E*, Zhu A, Bischof A, Kirkish G, Papinutto N, Devereux M, Baker N, Arnow S, Inman J, Yiu H, Bevan C, Gelfand JM, Cree BA, Hauser SL, Henry RG, and Green AJ. Predicting visual function clinical outcome in Multiple Sclerosis: a MRI and OCT metrics study. ACTRIMS congress 2017, Orlando 23-25 February 2017 (oral presentation)
- gg. **Cordano C**, Gelfand JM, Damotte V, Devereux M, Baker N, Bove R, Bevan C, Crabtree-Hartman L, Cree BA, Goodin D, Graves J, Hauser SL, Henry RG, Gourraud PA, Green AJ. pRNFL as a marker of disability worsening in the medium/long term in MS patients. AAN congress 2017, 22-28 April, Boston (poster)
- hh. L. Schirmer, L. R. Shiow, C. Zhao, A. Cruz Herranz, **C. Cordano**, L. Ben Haim, G. Timmons, K. W. Kelley, J. Wright, D. Morrison, S. Chang, K. Sabeur, A. J. Green, R. J. M. Franklin, D. H. Rowitch, Oligodendroglial potassium channel Kir4.1 is essential for white matter function. ECTRIMS 2017, Paris 24-28 October 2017 (poster)
- ii. L. Schirmer, L. R. Shiow, C. Zhao, A. Cruz Herranz, **C. Cordano**, L. Ben Haim, G. Timmons, K. W. Kelley, J. Wright, D. Morrison, S. Chang, K. Sabeur, A. J. Green, R. J. M. Franklin, D. H. Rowitch, Oligodendroglial potassium channel Kir4.1 is essential for white matter function. Tykeson Conference 2017 (poster)
- jj. **C. Cordano**, G. Timmons, K. Stebbins, HH Yiu, L. Schirmer, M. Devereux, A. Cruz-Herranz, D. Rowitch, B. Stearns, D. Lorrein, JR Chan and AJ Green. Visual Evoked Potential in EAE and toxic demyelination: a pre-clinical model for remyelination efficacy that is predictive of human clinical trials. UCSF MS group retreat 2017, August 29th San Francisco, CA (poster)
- kk. E. Caverzasi*, **C. Cordano***, A.H. Zhu, C Zhao, A. Bischof, G. Kirkish, N. Papinutto, M. Devereux, N. Baker, S. Arnow, J. Inman, H.H. Yiu, C. Bevan, J.M. Gelfand, B.A. Cree, S.L. Hauser, R.G. Henry, and A.J. Green. Predicting visual function clinical outcome in Multiple Sclerosis: a MRI and OCT metrics study. UCSF MS group retreat 2017, August 29th San Francisco, CA (poster)
- ll. **C. Cordano**, G. Timmons, K. Stebbins, H. Yiu, L. Schirmer, M. Devereux, C. Guglielmetti, A. Cruz-Herranz, D. Rowitch, B. Stearns, D. Lorrein, J. R. Chan and A. J. Green1. A pre-clinical model for remyelination efficacy that is predictive of human clinical trials: Visual Evoked Potential in EAE and Cuprizone Models. Gordon Research Seminar (GRS): Myelin. March 17th-18th 2018, Ventura, CA.
- mm. **C. Cordano**, G. Timmons, K. Stebbins, H. Yiu, L. Schirmer, M. Devereux, C. Guglielmetti, A. Cruz-Herranz, D. Rowitch, B. Stearns, D. Lorrein, J. R. Chan and A. J. Green1. A pre-clinical model for remyelination efficacy that is predictive of human clinical trials: Visual Evoked Potential in EAE

and Cuprizone Models. Gordon Research Conference (GRC): Myelin. March 18th-23rd 2018, Ventura, CA.

- nn. C. Guglielmetti, **C. Cordano**, A.J. Green, M.M. Chaumeil. Longitudinal evaluation of lesion pathology in a novel murine model for Multiple Sclerosis. 26th ISMRM conference, June 16-21, 2018
- oo. A Cruz-Herranz, K Kim, E Canto, **C Cordano**, G Timmons, JH Sin, M Devereux, N Baker, B Michel, R Schubert, L Rani, S Baranzini, AJ Green. In vivo confocal imaging and single-cell transcriptomic analyses reveal early activation of retinal microglia during experimental autoimmune encephalomyelitis. ECTRIMS, 10-12 October 2018, Berlin, Germany.
- pp. M. Cellerino, **C. Cordano**, G. Boffa, G. Bommarito, M. Petracca, E. Sbragia, G. Novi, C. Lapucci, E. Capello, A. Uccelli, and M. Inglese Relationship between retinal inner nuclear layer thickness and age in progressive multiple sclerosis. ECTRIMS, 10-12 October 2018, Berlin, Germany.
- qq. **C. Cordano**, G. Timmons, K. Stebbins, H. Yiu, M. Devereux, C. Guglielmetti, J. H. Sin, A. Cruz-Herranz, D. Rowitch, B. Stearns, D. Lorrein, J. R. Chan and A. J. Green. Visual evoked potential in EAE and toxic demyelination: a pre-clinical model for remyelination efficacy that is predictive of human clinical trials. ECTRIMS, 10-12 October 2018, Berlin, Germany.
- rr. A. Cruz-Herranz, M. Dietrich; A. M. Hilla, H. H. Yiu, M. H. Levin, A. Issberger, **C. Cordano**, K. Lehmann-Horn, L. J. Balk, O. Aktas, J. Ingwersen, H-P Hartung, S. S. Zamvil, D. Fischer, P. Albrecht, A. J. Green. Retinal dynamics revealed by optical coherence tomography predict neuronal loss in experimental autoimmune encephalomyelitis. ECTRIMS, 10-12 October 2018, Berlin, Germany.
- ss. G. Boffa, M. Cellerino, M. Petracca, S. Schiavi, **C. Cordano**, N. Piaggio, G. Mancardi, G. Bommarito, A. Uccelli, M. Inglese OCT intra-retinal layer segmentation unveils grey and white matter pathology in primary progressive MS. ECTRIMS, 10-12 October 2018, Berlin, Germany.
- tt. C. Guglielmetti, **C. Cordano**, C. Najac, A.J. Green, M. Chaumeil. Metabolic imaging of brain inflammation using hyperpolarized ¹³C MRSI of pyruvate and urea in a mouse model of multiple sclerosis. 27th ISMRM conference, Montreal, May 11-16 2019
- uu. Relationship between retinal layers thickness and disability worsening in relapsing and progressive multiple sclerosis. M. Cellerino, L. Priano, N. Bruschi, G. Boffa, M. Petracca, C. Lapucci, G. Novi, E. Sbragia, **C. Cordano**, E. Capello, A. Uccelli, M. Inglese. ECTRIMS, 11-13 September 2019, Stockholm, Sweden.
- vv. Relationship between retinal layers thickness and disability worsening in relapsing and progressive multiple sclerosis. M. Cellerino, L. Priano, N. Bruschi, G. Boffa, M. Petracca, C. Lapucci, G. Novi, E. Sbragia, **C. Cordano**, E. Capello, A. Uccelli, M. Inglese. SIN, 12-15 Ottobre 2019, Bologna, Italy.
- ww. Differences in age-related retinal and cortical atrophy rates in multiple sclerosis. **Cordano C***, Nourbakhsh B*, Yiu HH*, Papinutto N, Caverzasi E, Abdelhak A, Oertel FC, Beaudry-Richard A, Santaniello A, Sacco S, Bennett D, Gomez A, University of California, San Francisco MS-EPIC Team, Sigurdson CJ, Hauser SL, Magliozzi R, Cree BAC, Henry RG, Green AJ.. ECTRIMS 2021, Wien. **Poster and oral presentation, shortlisted for prize.**
- xx. Differences in age-related retinal and cortical atrophy rates in multiple sclerosis. **Cordano C***, Nourbakhsh B*, Yiu HH*, Papinutto N, Caverzasi E, Abdelhak A, Oertel FC, Beaudry-Richard A, Santaniello A, Sacco S, Bennett D, Gomez A, University of California, San Francisco MS-EPIC Team, Sigurdson CJ, Hauser SL, Magliozzi R, Cree BAC, Henry RG, Green AJ.. AAN 2022, Seattle. **Oral Presentation**

- yy. Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double blind-placebo controlled clinical trial. **Cordano C***, Caverzasi E*, Papinutto N*, Kirkish G, Zhu AH, Akula A, Hauser SL, Henry RG, and Green AJ. Gordon Reserch Conference and Seminar for Myelin, Barga, Italy, May 2022. Poster
- zz. Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double blind-placebo controlled clinical trial. **Cordano C***, Caverzasi E*, Papinutto N*, Kirkish G, Zhu AH, Akula A, Hauser SL, Henry RG, and Green AJ. Cold Spring Harbor Glia (Glia in health and disease), July 2022. Poster
- aaa. Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double blind-placebo controlled clinical trial. **Cordano C***, Caverzasi E*, Papinutto N*, Kirkish G, Zhu AH, Akula A, Hauser SL, Henry RG, and Green AJ. ECTRIMS 2022, Amsterdam. (**Poster and oral presentation, awarded best poster**).
- bbb. Visual Evoked Potential in EAE and toxic demyelination: a pre-clinical model for remyelination efficacy that is predictive of human clinical trials. **C. Cordano**, G. Timmons, K. Stebbins, HH Yiu, L. Schirmer, M. Devereux, A.Cruz-Herranz, D.Rowitch, B. Stearns, D. Lorrein, JR Chan and AJ Green. SIN Milan 2022 (poster)
- ccc. Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double blind-placebo controlled clinical trial. **Cordano C***, Caverzasi E*, Papinutto N*, Kirkish G, Zhu AH, Akula A, Hauser SL, Henry RG, and Green AJ. SIN Milan 2022 (poster)
- ddd. Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis. **Cordano C**, Werneburg S, Abdelhak A, Bennett D, Beaudry-Richard A, Boscardin J, Oertel FC, Jabassini N, Merritt L, Nocera S, Sin JH, Montes SC, Bishof A, Nourbakhsh B, Hauser SL, Cree BAC, Chan JR, Schafer DP, Green AJ. ECTRIMS 2023, Milan (poster)
- eee. Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis. **Cordano C**, Werneburg S, Abdelhak A, Bennett D, Beaudry-Richard A, Boscardin J, Oertel FC, Jabassini N, Merritt L, Nocera S, Sin JH, Montes SC, Bishof A, Nourbakhsh B, Hauser SL, Cree BAC, Chan JR, Schafer DP, Green AJ. AAN 2024, Denver (poster)
- fff. Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis. **Cordano C**, Werneburg S, Abdelhak A, Bennett D, Beaudry-Richard A, Boscardin J, Oertel FC, Jabassini N, Merritt L, Nocera S, Sin JH, Montes SC, Bishof A, Nourbakhsh B, Hauser SL, Cree BAC, Chan JR, Schafer DP, Green AJ. ACTRIMS 2024, Denver (**Oral presentation, shortlisted for prize**)
- ggg. Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis. **Cordano C**, Werneburg S, Abdelhak A, Bennett D, Beaudry-Richard A, Boscardin J, Oertel FC, Jabassini N, Merritt L, Nocera S, Sin JH, Montes SC, Bishof A, Nourbakhsh B, Hauser SL, Cree BAC, Chan JR, Schafer DP, Green AJ. Gordon Conference for Myelin 2024, Ventura (**Oral presentation**)
- hhh. Modeling CNS autoimmune disease using anti-myelin CAR T cells. **Cordano C**, Simic MS, Gupta S, Shepherd C, Duecker J, Abdelhak A, Ng B, Zhu R, Yu W, Sin JH, Montevirgen A, Beaudry-Richard A, Guglielmetti C, Sobel RA, Wilson MR, Zamvil SS, Green AJ and Lim WA. ECTRIMS 2024, Copenhagen (poster)
- iii. Is myelin detrimental for axons in autoimmune demyelination? **Cordano C**, Samana IP, Manske E, Yiu HH, Kharrazi E, Beaudry-Richard A, Abdelhak A, Green AJ, Chan JR. ECTRIMS 2024, Copenhagen (poster)
- jjj. Modeling CNS autoimmune disease using anti-myelin CAR T cells. **Cordano C**, Simic MS, Gupta S, Shepherd C, Duecker J, Abdelhak A, Ng B, Zhu R, Yu W, Sin JH, Montevirgen A, Beaudry-

June 11, 2025

Richard A, Guglielmetti C, Sobel RA, Wilson MR, Zamvil SS, Green AJ and Lim WA. ACTRIMS 2025, West Palm Beach (**oral presentation**)

kkk. Is myelin detrimental for axons in autoimmune demyelination? **Cordano C**, Samana IP, Manske E, Yiu HH, Kharrazi E, Beaudry-Richard A, Abdelhak A, Green AJ, Chan JR. ACTRIMS 2025, West Palm Beach (poster)