

CURRICULUM VITAE: Cordano Christian

NATO A	Genova (GE)
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Titoli di studio

- 1 gennaio 2014- 4 aprile 2017: Dottorato di ricerca in Medicina Sperimentale presso l'Università degli Studi di Genova, Genova, Italia. Titolo del progetto: “Tomografia a coerenza ottica ad altissima risoluzione nell'encefalomielite autoimmune sperimentale – un modello per la comprensione del ruolo clinico dell'OCT nella sclerosi multipla”.
- 27 marzo 2013: Specializzazione in Neurologia presso l'Università degli Studi di Genova, Genova, Italia: completata con lode.
- 1 gennaio 2009 - 6 aprile 2013: Specializzazione in Terapia Cognitivo Comportamentale. Istituto Miller, Genova.
- 1 marzo 2008: Ammissione al Corso di Specializzazione in Neurologia presso l'Università degli Studi di Genova.
- 19 ottobre 2007: Laurea in Medicina e Chirurgia, Università degli Studi di Genova, Italia. Titolo della tesi: “Utilizzo di GDX e HRT nella valutazione dello strato di cellule nervose retiniche nei pazienti affetti da sclerosi multipla”. Relatore prof. G.L. Mancardi.

Attività di ricerca

- 1° marzo 2023 – oggi – Ricercatore part-time, Università di Genova, finanziato per la ricerca dalla Fondazione Italiana Sclerosi Multipla (FISM), borsa Rita Levi Montalcini (grant n. 2019/BC/002)
- 14 agosto 2014- oggi: Visiting Scholar, poi Post-Doctoral Research Fellow (a partire dal 1 ottobre 2016, quindi Associate Researcher (a partire dal 1 novembre 2021) presso il laboratorio del Dr. Ari Green, all'interno della Divisione di Neuroinfiammazione e Biologia Gliale (precedentemente Divisione di Neuroimmunologia) presso l'Università della California, San Francisco (UCSF), finanziato inizialmente da una borsa di studio della Fondazione Italiana Sclerosi Multipla (FISM) fino ad agosto 2016.

Il mio lavoro si concentra sulle alterazioni elettrofisiologiche visive nell'encefalomielite autoimmune sperimentale e in numerosi altri modelli animali di demielinizzazione (compresi modelli transgenici), nel tentativo di caratterizzare il decorso delle alterazioni elettrofisiologiche e del danno neuronale a seguito della demielinizzazione, nonché l'effetto delle terapie riparative nella sclerosi multipla (SM). Ho anche lavorato a studi di ricerca clinica incentrati sulla dinamica dell'atrofia retinica nella SM, misurando l'efficacia dell'OCT nel predire il peggioramento della disabilità nella SM, sia da solo che in combinazione con metriche di risonanza magnetica. Il mio lavoro più di recente si è concentrato sui biomarcatori preclinici di rimielinizzazione e su secondary analysis (principalmente imaging) dello studio clinico REBUILD.

- 7 aprile 2013 - 13 agosto 2014: borsa di studio in Neuroimmunologia, laboratorio Dr. Antonio Uccelli, Università di Genova, Genova, Italia.
- 1 marzo 2008 - 6 aprile 2013: Gruppo di ricerca sulla sclerosi multipla, Università di Genova, Genova, Italia. Referente: Gianluigi Mancardi, MD, Antonio Uccelli, MD.
- 1 febbraio 2010- 6 Aprile 2013: Gruppo di ricerca sul Parkinson e sui disturbi del movimento, Università di Genova, Genova, Italia. Referente: Giovanni Abbruzzese, MD.

Attività clinica e di insegnamento

- 1 marzo 2023 – oggi – Docente part-time in Neurologia e Neuroscienze, Università di Genova (scuole: Medicina, Scienze Motorie, Ortottica, Formazione Professionale, Fisioterapia, Infermieristica, Dottorato di Neuroscienze)
- Febbraio – giugno 2022 – Docente part-time, Dipartimento di Biologia, University of San Francisco (USF)
- 1 marzo 2008 - 13 luglio 2014: Servizio ambulatoriale e ospedaliero di Neurologia, presso la Clinica Neurologica dell'Università degli Studi di Genova, Genova, Italia. Sono stato coinvolto nelle prestazioni ambulatoriali sub-specialistiche di pazienti con Sclerosi Multipla (mentore: Prof. Antonio Uccelli), Malattia di Parkinson (mentore: Prof. Giovanni Abbruzzese) e patologie Neuro-Oftalmologiche (mentore: Dott. Fabio Bandini). Contatto: Gianluigi Mancardi, MD ed Antonio Uccelli, MD.
- 1 gennaio 2009 - 13 luglio 2014: Insegnante di Neuroanatomia e Fisiologia Generale presso l'Istituto Europeo di Medicina Osteopatica (IEMO). 1 ottobre 2012- 13 luglio 2014: Insegnante di Neurofisiologia presso l'Istituto Europeo di Medicina Osteopatica (IEMO). Contatto: Prof. Luigi Ciullo (luigi.ciullo@univerosteo.it)
- 7 aprile 2013 - 13 luglio 2014: neurologo presso il Dipartimento GCLA (gravi lesioni cerebrali) che si occupa di patologia neurologica e psichiatrica in pazienti con gravi lesioni cerebrali presso il Centro di Riabilitazione R.S.A. Città di Genova situato in Via Bolzano, Genova. Contatto: Prof. Giovanni Regesta (giovanniregesta@grupprofides.it)
- 1 luglio 2013 - 30 luglio 2014: Direttore Sanitario della Residenza Protetta/Centro Riabilitativo “Villa San Pietro” sito in Salita Sup. San Rocchino 49, Genova, Italia.
- 1 luglio 2013 - 30 luglio 2014 e agosto 2016 - ottobre 2016: neurologo consulente presso l'Associazione Italiana Sclerosi Multipla (AISM)
- Agosto 2016-Ottobre 2016: Direttore Sanitario della Residenza Protetta/Centro Riabilitativo “Villa San Pietro” sita in Salita Sup. San Rocchino 49, Genova, Italia.
- Febbraio 2022- Giugno 2022: Part-time Faculty presso il Dipartimento di Biologia dell'Università di San Francisco (USF)

Esperienze come Editore/Referee/Revisore:

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

Review Editor per:

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

Revisore “ad hoc” per:

- *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*,
- *Vaccines*.

Grant reviewer per:

ARSEP Foundation, the French Multiple Sclerosis Research Society.

NIH/OD oculosomics

Affiliazioni Professionali & Ruoli di Leadership

- Società Italiana di Neurologia (SIN) – dal 2009
- International Multiple Sclerosis Visual System Consortium (IMSVISUAL) – dal 2015
- Membro del Board of Directors (Junior) IMSVISUAL – dal marzo 2025

Premi

- **Travel grant-in-aid, ECTRIMS Congress** (Barcelona, October **2015**) (500 euro)
- **Miglior Poster al congresso nazionale della Fondazione Italiana Sclerosi Multipla (FISM)** (Roma, maggio **2016**) titolo “*Ultra-High resolution optical coherence tomography in experimental autoimmune encephalomyelitis – a model for understanding the clinical role for OCT in MS*”
- **Miglior Progetto scientifico di Ricerca, Societa’ Italiana di Oftalmologia (SOI) 2016:** 2nd place
- **Travel grant-in-aid, ACTRIMS Congress** (Orlando, February **2017**) (500 \$) per la presentazione orale: “*Predicting visual function clinical outcome in MS: a MRI and OCT metrics study*”.
- **Miglior Progetto scientifico di Ricerca, Societa’ Italiana di Oftalmologia (SOI) 2017:** 1st place (15.000 euro). Co-authors: Prof. Michele Iester and Prof. Antonio Uccelli.
- **Research award A.I.S.G. - Omikron** “In memoria di Marco Centofanti” su neuroprotezione e glaucoma **2018** (30.000 euro) per il progetto “*OCT evaluation of the neuroprotective potential of mesenchymal stem cell transplantation in an animal model of open-angle glaucoma*”
- “**Summa cum Laude**” prize alla **27th ISMRM conference (Montreal, May 11-16 2019)** (top 3% delle presentazioni orali) per il progetto “Metabolic imaging of brain inflammation using hyperpolarized ¹³C MRSI of pyruvate and urea in a mouse model of multiple sclerosis” (2nd author).
- **Fondazione Italiana Sclerosi Multipla (FISM) 2020 – Rita Levi Montalcini Career Fellowship** con il progetto “*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*”. (420.000 euro)
- **Top-ranked poster at ECTRIMS 2021** per il progetto “*Differences in age-related retinal and cortical atrophy rates in multiple sclerosis*”
- **AAN Abstract Invited Paper at the AAN 2022 in Seattle** per il progetto “Differences in age-related retinal and cortical atrophy rates in multiple sclerosis” (Gli editori di Neurology revisionano e scelgono un limitato numero di “outstanding abstract” invitando a pubblicare il progetto relativo all’abstract su Neurology).

- **Best Poster prize** (5 su circa 1500 abstract) all' **ECTRIMS 2022** (26-28 October, Amsterdam) per il progetto *“Myelin water fraction of the corpus callosum is a robust measure of remyelination in a double-blind placebo-controlled clinical trial”* (1200 euro)

Grant

- **Training Fellowship (2 anni) finanziata dalla Fondazione Italiana Sclerosi Multipla (FISM 2013/B/4)** con il progetto *“Ultra-High resolution optical coherence tomography in experimental autoimmune encephalomyelitis – a model for understanding the clinical role for OCT in MS”*
- Ho sviluppato un nuovo approccio per eseguire potenziali evocati visivi (VEP) longitudinali nei topi con riproducibilità e affidabilità eccezionali [deviazione standard media su 3 registrazioni ripetute in giorni consecutivi in topi sani di 1,47 ms (range 0,45-2,40 ms)]. I miei esperimenti dimostranti che il ritardo di latenza VEP migliora dopo il trattamento con un composto rimielinizzante in diversi modelli di demielinizzazione, rispecchiando analisi sia quantitativa che qualitativa della mielina, hanno contribuito a un grant **NIH RO1 per il dottor Ari J Green. "Establishing VEP as a quantitative biomarker for remyelination using transgenic models for gain and loss of function NIHR01NS105741 15 maggio 2018 - 28 febbraio 2023"**, nel quale sono indicato come collaboratore.
- Sono indicato come collaboratore nel grant **NIH RO1 per il Dr. Michael Geschwind “Tracking longitudinal change in presymptomatic genetic prion disease (TLC-Pre-gPrD)” NIHR01AG062562 (Aug 1, 2019 - May 31, 2024)**, essendo responsabile dello studio delle anomalie retiniche nelle malattie da prioni pre-sintomatiche e sintomatiche.
- Principal investigator del grant **Fondazione Italiana Sclerosi Multipla (FISM) 2020 – Rita Levi Montalcini Career Fellowship** con il progetto *“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”*. (420.000 euro)

Attività di supervisione e tutoraggio

Ho fatto da mentore per 2~4 anni ciascuno a diversi studenti post-diploma di laurea (colleghi) lavorando come assistenti alla ricerca e coordinatori clinici presso il Green lab. Hao Yiu ha iniziato 4 anni fa un programma di dottorato presso l'Università del Maryland, College Park; Garrett Timmons inizierà presto la sua specializzazione in Neurologia presso la Stanford University dopo la laurea in medicina conseguita presso la UCSD Medical School; Sam Arnold; Michael Devereaux, Nicholas Baker, Justin Inman e Daniel Bennett sono attualmente iscritti o laureati in medicina. Jung Hyung Sin e Tracy Tran hanno recentemente lasciato il laboratorio. Attualmente sto facendo da mentore ad Alexandra Beaudry-Richard, studentessa di dottorato presso l'Università di Ottawa/UCSF, Shivany Condor Montes, Nora Jabassini e Kirtana Ananth, studenti post laurea.

Partecipazione a Innovazione Industriale

Ho lavorato eseguendo esperimenti (in particolare VEP su modelli murini) presso Inception Science (azienda Biotech) a San Diego (CA, US). Ho partecipato alla descrizione del profilo rimielinizzante di 2 composti scoperti di recente. Contatti: Brian Stearns (bstearns@inceptionsci.com) e Daniel Lorrain (dan@pipeline-

[tx.com](https://www.tx.com)). Almeno due società (Pipeline, San Diego e Roche) hanno avviato di recente un laboratorio VEP preclinico per lo studio di farmaci rimielinizzanti come conseguenza del mio lavoro.

Invited talks

- **“Neuro-ophthalmological emergencies: comparing experiences:”** webinar SIN, 28–29 maggio 2022.
- **“Longitudinal study of optic atrophy in multiple sclerosis”** nel contesto del webinar SIN su “OCT and Neurological diseases”, 23 febbraio 2022.
- **Lectio magistralis: “The anterior visual pathway as a model for studying neurodegeneration and remyelination in multiple sclerosis and demyelinating diseases”** alla conferenza “Malattie neuroimmunologiche, dal sintomo alla terapia”, Lecco, 23 settembre 2022.
- **“Demyelinating optic neuritis,”** 4 dicembre 2022, SIN 2022, Milano.
- **“Remyelination: a journey from basic science to clinical research”**, 17 marzo 2023, Università dell’Insubria, Varese.
- **“The anterior visual pathway as a model for studying neurodegeneration and remyelination”**, Neurophthalmology Update for Clinicians 2023, Siena, 16 settembre 2023.
- **“Fostering endogenous repair of the CNS in multiple sclerosis: the clemastine story”**, 4 dicembre 2023, Auditorium del Centro Congressi del Policlinico San Martino, Università di Genova.
- **“The retina as a model for the study of neurodegeneration in demyelinating pathology”**, 18 gennaio 2024, nell’ambito della sessione “Multimodal imaging in neuroscience”, Macula Conference, Genova.
- **“Ongoing trials in Neuro-Ophthalmology Symposium. Remyelination: optic neuritis and internuclear ophthalmoplegia”**, 4 giugno 2024, UNOS 2024, Rotterdam, Paesi Bassi.
- **“Synaptic injury in the inner plexiform layer of the retina is a predictor of progression in multiple sclerosis”**, nel contesto del “Neuro-ophthalmological update for clinicians 2024”, 22–23 giugno 2024, Palermo.
- **“Functional Markers in Pre-clinical Research”**, nel contesto dell’“IMSVISUAL Summer School”, Toronto, 18 luglio 2024.
- **“Synaptic injury as a predictive marker for neuronal loss and functional outcome in acute optic neuritis”**, conferenza IMSVISUAL durante ECTRIMS, Copenhagen, 18 settembre 2024.
- **“Assessing Synaptic Injury through Retinal Inner Plexiform Layer Thickness”**, Università di Siena, 20 dicembre 2024.
- **“Retinopathy and progression in multiple sclerosis”**, nel contesto della conferenza “Optic nerve diseases: diagnostic challenges and multidisciplinary approach”, Ferrara, 27–28 febbraio 2025.
- **“The visual pathway as a model for studying neurodegeneration and remyelination in demyelinating diseases”**, Neurology Grand Rounds, University Hospitals Cleveland Medical Center, Cleveland, 13 marzo 2025.

Presidente di sessione (Session Chair)

Internazionale:

- ECTRIMS 2023, Milano, Italia. Sessione “Free Communications 6: Real world evidence (RWE) - Clinical course”, 13 ottobre 2023.
- EUNOS 2024, Rotterdam, Paesi Bassi. Sessione “New treatments in neuro-ophthalmology symposium”, 6 giugno 2024.

Pubblicazioni su riviste internazionali:

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, Schaedel 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, Friese 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.
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- M. Fornaro, F. Bandini, C. Ogliastro, **C. Cordano**, M. Martino, L. Cestari, A. Escelsior, G. Rocchi, 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, Portogallo, 26-29 October 2011 (poster)
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- 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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- **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. XLVI Italian Society of Neurology Annual Congress Genova, 10-13 October 2015 (poster)
- 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
- **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)
- **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)
- 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)
- 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)
- **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)

- 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)
- **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.
- **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.
- 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
- 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.
- 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.
- **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.
- A. Cruz-Herranz, M. Dietrich; A. M. Hilla, H. H. Yiu, M. H. Levin, A. Issberner, **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.
- 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.
- 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
- 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.
- 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.
- 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.

- 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
- 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
- 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
- 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**).
- 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)
- 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)
- 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)
- 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)
- 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**)
- 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**)
- 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)
- 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)

- 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. ACTRIMS 2025, West Palm Beach (**oral presentation**)
- 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)