

Biographical Sketch

Personal Information

Name:	Lukas Haider
Current affiliation:	Department of Biomedical Imaging and Image-guided Therapy (Division of Neuroradiology and Musculoskeletal Radiology)

Higher Education

2007 - 2013	MD (Medical University of Vienna)
2010 - 2015	MD/ PhD, Supervisor: <u>Prof. Hans Lassmann</u>
2013 - 2018	MBA, Healthcare Management (Medical University of Vienna)
2014 - 2022	Residency at the Department of Biomedical Imaging and Image Guided Therapy (Medical University of Vienna)
2018 - 2024	Post-Doctoral Research Fellow at the University College London (Supervisor: <u>Prof. Frederik Barkhof; Dr. Declan Chard</u>)
2021 - 2023	Post-Doctoral Research Fellow at the Amsterdam VUMC (Supervisor: <u>Prof. Frederik Barkhof</u>)
2022	European Diploma in Diagnostic Neuroradiology (ESNR)
2023	Venia Docendi, "Priv.Do.", Medical University of Vienna
2025	Academic Tenure, "apProf.", Medical University of Vienna

Appointments & Positions

2010 - 2014	PhD-Student (Center for Brain Research; <u>Prof. Hans Lassmann</u>)
2014 - 2022	Residency (Department of Biomedical Imaging and Image Guided Therapy (Medical University of Vienna)
2018 - 2024	Post-Doctoral Research Fellow at the University College London (Supervisor: <u>Prof. Frederik Barkhof; Dr. Declan Chard</u>), Honorary Contract
2021 - 2023	Post-Doctoral Research Fellow at the Amsterdam VUMC (Supervisor: <u>Prof. Frederik Barkhof</u>), Honorary Contract
2022 - 2024	Consultant for Diagnostic Neuroradiologist (fulltime) at the Division of Neuroradiology and Musculoskeletal Radiology, Department of Biomedical Imaging and Image Guided Therapy, Medical University of Vienna (<u>Prof. Gregor Kasprian</u>)

Selected Grants/Third Party Funding/Projects, Fellowships and Awards

Fellowships:	
2018-2019	12 months ESNR (European Society of Neuroradiology) Research Fellowship in Diagnostic Neuroradiology; Supervisors: Prof. F. Barkhof, Dr. D. Chard, University College London
2019-2020	12 months ECTRIMS-MAGNIMS (European Committee for Treatment and Research in Multiple Sclerosis – Magnetic Resonance Imaging in Multiple Sclerosis) Research Fellowship; Supervisors: Prof. F. Barkhof, Dr. D. Chard, Prof. O. Ciccarelli, University College London Collaborators: Prof. G.C. De Luca, University of Oxford, Prof. W. van de Berg, L. Jonkman PhD and Prof. J. Geurts, Amsterdam University Medical Centre.

Grants/Third Party Funding:

2019	Austrian Multiple Sclerosis Society Research Grant (PI)
2019	UK Multiple Sclerosis Society (Co-PI)
2023	Medizinisch-Wissenschaftlicher Fonds des Bürgermeisters von Wien (PI)
2024	WWTF / ME-CFS24-018 (PI)

Awards:

2012	Bauer- Multiple Sclerosis Young-Scientist-Award (first time awarded to a medical student, 5k€)
2015	Charcot Foundation Poster Award (5k€)
2016	VFWF Dissertation Award of the Medical University of Vienna
2016, -20, -22	Scientific excellence award, Department for Biomedical Imaging and Image Guided Therapy
2021	Arthur Schüller Preis of the Austrian Neuroradiological Society (ÖGNER) (2.2k€)
2022	Young-Investigator-Award of the Neuroscience Cluster of the Medical University of Vienna (2k€)
2022	Karl Vass Prize of the Austrian Multiple Sclerosis Society (10k€)
2024	VFWF Habilitation Prize of the Medical University of Vienna

Selected Memberships

2017 -	European Society of Neuroradiology
2024	VFWF

Selected Collaboration Partners

Prof. G.de Luca: Post-Mortem MRI – Histology correlates in Multiple Sclerosis and Cerebral Small Vessel Disease, University of Oxford, Nuffield Department of Clinical Neuroscience, UK

Prof. F. Barkhof: Post-Mortem MRI and cortical lesions in Multiple Sclerosis

Professional and Scholarly Activities

Examiner for the degree of doctor of philosophy at the University of Oxford, Frequent Reviewer, including international grant applications

Publication Summary

Narrative Description of Research Output:	I have tried to contribute to the mechanistic understanding of neurodegeneration and the clinical applicability of these concepts. My work includes studies on oxidative tissue damage, iron and mitochondrial injury in MS, and exploration of the topography of demyelination and neurodegeneration in the MS brain. The clinical publications try to provide insights into the disease-specific molecular events in cortical MS lesions and the predictive properties of MRI. Overall, my publications are cited in total over 4300 times, mainly from publications I first-authored, my h-index is currently 19.
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Top 10 Selected Publications

- 1.* Oxidative damage in multiple sclerosis lesions; Journal: **Brain**; Authors: **Lukas Haider**, Fischer MT, Frischer JM, Bauer J, Höftberger R, Botond G, Esterbauer H, Binder CJ, Witzum JL, Lassmann H
10.1093/brain/awr128
- 2.* The Topography of Demyelination and Neurodegeneration in the MS Brain: Implications for Pathogenesis and Magnetic Resonance Imaging; Journal: **Brain**
Authors: **Lukas Haider**, Zrzavy T, Hametner S, Höftberger R, Bagnato F, Grabner G, Trattnig S, Pfeifenbring S, Brück W, Lassmann H
10.1093/brain/awv398
- 3.* Inflammation, Iron, Energy Failure, and Oxidative Stress in the Pathogenesis of Multiple Sclerosis, Journal: **Oxid Med Cell Longevity**
Author: **Haider L.**
10.1155/2015/725370
- 4.* Cortical involvement determines impairment 30 years after a clinically isolated syndrome; Journal: **Brain**,
Authors: **Haider L**, Prados F, Chung K, Goodkin O, Kanber B, Sudre C, Yiannakas M, Samson RS, Mangesius S, Thompson AJ, Gandini Wheeler-Kingshott CAM, Ciccarelli O, Chard DT, Barkhof F.
10.1093/brain/awab033
5. Linear brain atrophy measures in multiple sclerosis and clinically isolated syndromes: a 30-year follow-up;
Journal: **Journal of Neurology Neurosurgery and Psychiatry**
Authors: **Lukas Haider**, Karen Chung, Giselle Birch, Arman Eshaghi, Stephanie Mangesius, Ferran Prados, Carmen Tur, Olga Ciccarelli, Frederik Barkhof, Declan Chard
10.1136/jnnp-2020-325421
6. Multiple sclerosis deep grey matter: the relation between demyelination, neurodegeneration, inflammation and iron; Journal: **Journal of Neurology Neurosurgery and Psychiatry**; Authors: **Lukas Haider**, Simeonidou C, Steinberger G, Hametner S, Grigoriadis N, Deretzi G, Kovacs GG, Kutzelnigg A, Lassmann H, Frischer JM
10.1136/jnnp-2014-307712
7. Post-mortem correlates of Virchow-Robin spaces detected on in vivo MRI; Journal: **Journal of Cerebral Blood Flow & Metabolism**; Authors: **Lukas Haider**, Simon Hametner, Verena Endmayr, Stephanie Mangesius, Andrea Eppensteiner, Josa M. Frischer, Juan Eugenio Iglesias, Frederik Barkhof, Gregor Kasprian
10.1177/0271678X211067455
8. Use of gadolinium for MRI diagnostic or surveillance studies in patients with MS.
Authors: **Haider L**, Naismith RT, Rovira A. Journal: **Neurology**. 2019 Aug 6;93(6):239-240.
10.1212/WNL.00000000000007891
9. Assessment of AI-accelerated T2-weighted brain MRI, based on clinical ratings and image quality evaluation;
Journal: **European Journal of Radiology**; Authors: Nonninger, J. N., Kienast, P., Pogledic, I., Mallouhi, A., Barkhof, F., Trattnig, S., ... & Haider, L. (2025).
10. Imaging features to distinguish AQP4-positive NMOSD and MS at disease onset: a retrospective analysis in a single-center cohort; Journal: **European Journal of Radiology**; Authors: Zrzavy T, Leutmezer F, Rommer P, Bsteh G, Kornek B, Berger T, Prayer D, Thurnher M, **Haider L.**
10.1016/j.ejrad.2021.110063

Complete Publication List

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[lukas haider - Google Scholar](#)

Additional skills and experience

MRI, Histology, R



Vienna, 22., 10., 2025
