

2023 Publications MSCA

1. A multimodal marker for cognitive functioning in multiple sclerosis: the role of NfL, GFAP and conventional MRI in predicting cognitive functioning in a prospective clinical cohort. van Dam, M., de Jong, B. A., Willemse, E. A. J., Nauta, I. M., Huiskamp, M., Klein, M., Moraal, B., de Geus-Driessen, S., Geurts, J. J. G., Uitdehaag, B. M. J., Teunissen, C. E. & Hulst, H. E., Aug 2023, In: Journal of neurology. 270, 8, p. 3851-3861 11 p. Research output: Contribution to journal › Article › Academic › peer-review
2. A novel eye-movement impairment in multiple sclerosis indicating widespread cortical damage Nij Bijvank, J. A., Hof, S. N., Prouskas, S. E., Schoonheim, M. M., Uitdehaag, B. M. J., van Rijn, L. J. & Petzold, A., 1 Jun 2023, In: Brain. 146, 6, p. 2476-2488 13 p. Research output: Contribution to journal › Article › Academic › peer-review
- ~~3.~~ Adipokines in multiple sclerosis patients are related to clinical and radiological measures. Loonstra FC, Falize KF, de Ruiter LRJ, Schoonheim MM, Strijbis EMM, Killestein J, de Vries HE, Uitdehaag BMJ, Rijnsburger M.J Neurol. 2023 Apr;270(4):2018-2030. doi: 10.1007/s00415-022-11519-8. Epub 2022 Dec 23.PMID: 36562851
4. Assessment of Multiple Aspects of Upper Extremity Function Independent From Ambulation in Patients With Multiple Sclerosis van Munster, C. E. P., Burggraaff, J., Steinheimer, S., Kamm, C. P., D'Souza, M., Diederich, M., Dorn, J., Walsh, L., Dahlke, F., Kappos, L. & Uitdehaag, B. M. J., 1 Sept 2023, In: International Journal of MS Care. 25, 5, p. 226-232 Research output: Contribution to journal › Article › Academic › peer-review
5. Association between age and inflammatory disease activity on magnetic resonance imaging in relapse onset multiple sclerosis during long-term follow-up Coerver, E., Janssens, S., Ahmed, A., Wessels, M., van Kempen, Z., Jasperse, B., Barkhof, F., Koch, M., Mostert, J., Uitdehaag, B., Killestein, J. & Strijbis, E., Aug 2023, In: European journal of neurology. 30, 8, p. 2385-2392 8 p. Research output: Contribution to journal › Article › Academic › peer-review
6. Association of age and inflammatory disease activity in the pivotal natalizumab clinical trials in relapsing-remitting multiple sclerosis Strijbis, E. M., Coerver, E., Mostert, J., van Kempen, Z. L. E., Killestein, J., Comtois, J., Repovic, P., Bowen, J. D., Cutter, G. & Koch, M., 1 Oct 2023, In: Journal of Neurology, Neurosurgery and Psychiatry. 94, 10, p. 792-799 8 p. Research output: Contribution to journal › Article › Academic › peer-review
7. Association of Arachidonic Acid-Derived Lipid Mediators With Disease Severity in Patients With Relapsing and Progressive Multiple Sclerosis Broos, J. Y., Loonstra, F. C., de Ruiter, L. R. J., Gouda, M., Fung, W. H., Schoonheim, M. M., Heijink, M., Strijbis, E. M. M., Teunissen, C., Killestein, J., de Vries, H. E., Giera, M., Uitdehaag, B. M. J. & Kooij, G., 1 Aug 2023, In: Neurology. 101, 5, p. e533-e545 Research output: Contribution to journal › Article › Academic › peer-review
8. Association of volumetric MRI measures and disability in MS patients of the same age: Descriptions from a birth year cohort de Ruiter, L. R. J., Loonstra, F. C., Jelgerhuis, J. R., Coerver, E. M. E., Toorop, A. A., van Leeuwen, I. C. E., Noteboom, S., Moraal, B., Strijbis, E. M. M., Schoonheim, M. M. & Uitdehaag, B. M. J., 1 Mar 2023, In: Multiple Sclerosis and Related Disorders. 71, 104568.

9. Blended versus face-to-face cognitive behavioural therapy for severe fatigue in patients with multiple sclerosis: A non-inferiority RCT. de Gier M, Beckerman H, Twisk J, Knoop H, de Groot V. *Mult Scler.* 2023 Sep;29(10):1316-1326. doi: 10.1177/13524585231185462. Epub 2023 Jul 25. PMID: 37489562 Free PMC article. Clinical Trial.
10. Brain-derived neurotrophic factor, neurofilament light and glial fibrillary acidic protein do not change in response to aerobic training in people with MS-related fatigue - a secondary analysis of a randomized controlled trial Gravesteijn, A. S., Beckerman, H., Willemse, E. A. J., Hulst, H. E., de Jong, B. A., Teunissen, C. E. & de Groot, V., 1 Feb 2023, In: *Multiple Sclerosis and Related Disorders.* 70, 104489. Research output: Contribution to journal › Article › Academic › peer-review
11. Breakthrough COVID-19 infection in people with MS after SARS-CoV-2 vaccination: Should we still be concerned? van Kempen, Z. L. E. & Mazziotti, V., 1 Jul 2023, In: *MULTIPLE SCLEROSIS JOURNAL.* 29, 8, p. 901-903 3 p. Research output: Contribution to journal › Editorial › Academic › peer-review
12. Cardiovascular risk factors in secondary progressive multiple sclerosis: A cross-sectional analysis from the MS-STAT2 randomized controlled trial the UCL MS-STAT2 investigators, Sept 2023, In: *European journal of neurology.* 30, 9, p. 2769-2780 12 p. Research output: Contribution to journal › Article › Academic › peer-review
13. Cognitive performance in multiple sclerosis: what is the role of the gamma-aminobutyric acid system? Huiskamp, M., Yaqub, M., van Lingen, M. R., Pouwels, P. J. W., de Ruiter, L. R. J., Killestein, J., Schwarte, L. A., Golla, S. S. V., van Berckel, B. N. M., Boellaard, R., Geurts, J. J. G. & Hulst, H. E., 2023, In: *Brain Communications.* 5, 3, fcad140. Research output: Contribution to journal › Article › Academic › peer-review
14. Cognitive rehabilitation and mindfulness reduce cognitive complaints in multiple sclerosis (REMIND-MS): A randomized controlled trial Nauta, I. M., Bertens, D., Fasotti, L., Fieldhouse, J., Uitdehaag, B. M. J., Kessels, R. P. C., Speckens, A. E. M. & de Jong, B. A., 1 Mar 2023, In: *Multiple Sclerosis and Related Disorders.* 71, 104529. Research output: Contribution to journal › Article › Academic › peer-review
15. Commercial volumetric MRI reporting tools in multiple sclerosis: a systematic review of the evidence Mendelsohn, Z., Pemberton, H. G., Gray, J., Goodkin, O., Carrasco, F. P., Scheel, M., Nawabi, J. & Barkhof, F., Jan 2023, In: *Neuroradiology.* 65, 1, p. 5-24 20 p. Research output: Contribution to journal › Review article › Academic › peer-review
16. Computer-Aided Diagnosis and Prediction in Brain Disorders Venkatraghavan, V., Voort, S. R. V. D., Bos, D., Smits, M., Barkhof, F., Niessen, W. J., Klein, S. & Bron, E. E., 2023, *Neuromethods.* Humana Press Inc., Vol. 197. p. 459-490 32 p. (Neuromethods; vol. 197). Research output: Chapter in Book/Report/Conference proceeding › Chapter › Academic › peer-review

17. Correction: Nectins and Nectin-like molecules drive vascular development and barrier function (Angiogenesis, (2023), 26, 3, (349-362), 10.1007/s10456-023-09871-y) Hermans, D., Rodriguez-Mogeda, C., Kempers, H., Bronckaers, A., de Vries, H. E. & Broux, B., Aug 2023, In: Angiogenesis. 26, 3, p. 363 1 p. Research output: Contribution to journal > Comment/Letter to the editor > Academic
18. Cross-Reactivity of Antibodies to Rituximab with Other Therapeutic Anti-CD20 Antibodies. Rispens T, Kuijpers TW, Killestein J, van Kempen ZLE, Bloem K.J Immunol. 2023 Dec 27:ji2300647. doi: 10.4049/jimmunol.2300647. PMID: 38149924
19. Decrease of natalizumab drug levels after switching from intravenous to subcutaneous administration in patients with multiple sclerosis Toorop, A. A., van Kempen, Z. L. E., Steenhuis, M., Nielsen, J., Sinnige, L. G. F., van Dijk, G., Roosendaal, C. M., Arnoldus, E. P. J., Hoitsma, E., Lissenberg-Witte, B. I., de Jong, B. A., Oosten, B. W. V., Strijbis, E. M. M., Uitdehaag, B. M. J., Rispens, T. & Killestein, J., 1 Jun 2023, In: Journal of Neurology, Neurosurgery and Psychiatry. 94, 6, p. 482-486 5 p. Research output: Contribution to journal > Article > Academic > peer-review
20. Detection of grey matter microstructural substrates of neurodegeneration in multiple sclerosis Krijnen, E. A., Russo, A. W., Salim Karam, E., Lee, H., Chiang, F. L., Schoonheim, M. M., Huang, S. Y. & Klawiter, E. C., 2023, In: Brain Communications. 5, 3, fcad153. Research output: Contribution to journal > Article > Academic > peer-review
21. Diagnostic value of kappa free light chain index in patients with primary progressive multiple sclerosis - a multicentre study Hegen, H., Berek, K., Cavalla, P., Christiansen, M., Emeršič, A., di Filippo, M., Gaetani, L., Hassler, M., Leurs, C., Milosavljevic, D., van Pesch, V., Petersen, T., Presslauer, S., Rosenstein, I., Rot, U., Schnabl, C., Teunissen, C., Vecchio, D., Vercellino, M. & Deisenhammer, F., 2023, In: Frontiers in immunology. 14, 1327947. Research output: Contribution to journal > Article > Academic > peer-review
22. Differential diagnosis of suspected multiple sclerosis: an updated consensus approach Solomon, A. J., Arrambide, G., Brownlee, W. J., Flanagan, E. P., Amato, M. P., Amezcua, L., Banwell, B. L., Barkhof, F., Corboy, J. R., Correale, J., Fujihara, K., Graves, J., Harnegie, M. P., Hemmer, B., Lechner-Scott, J., Marrie, R. A., Newsome, S. D., Rocca, M. A., Royal, W., Waubant, E. L., Yamout, B., Cohen, J. A., 1 Aug 2023, In: The Lancet Neurology. 22, 8, p. 750-768 19 p. Research output: Contribution to journal > Review article > Academic > peer-review
23. Differentiating Multiple Sclerosis From AQP4-Neuromyelitis Optica Spectrum Disorder and MOG-Antibody Disease With Imaging Cortese, R., Carrasco, F. P., Tur, C., Bianchi, A., Brownlee, W., de Angelis, F., de la Paz, I., Grussu, F., Haider, L., Jacob, A., Kanber, B., Magnollay, L., Nicholas, R. S., Trip, A., Yiannakas, M., Toosy, A. T., Hacohen, Y., Barkhof, F. & Ciccarelli, O., 17 Jan 2023, In: Neurology. 100, 3, p. E308-E323 Research output: Contribution to journal > Article > Academic > peer-review

24. [Diffusion-based structural connectivity patterns of multiple sclerosis phenotypes](#) Martinez-Heras, E., Solana, E., Vivó, F., Lopez-Soley, E., Calvi, A., Alba-Arbalat, S., Schoonheim, M. M., Strijbis, E. M., Vrenken, H., Barkhof, F., Rocca, M. A., Filippi, M., Pagani, E., Groppa, S., Fleischer, V., Dineen, R. A., Bellenberg, B., Lukas, C., Pareto, D., Rovira, A., Sastre-Garriga, J., Collorone, S., Prados, F., Toosy, A., Ciccarelli, O., Saiz, A., Blanco, Y., Llifri, S., 1 Nov 2023, In: Journal of Neurology, Neurosurgery and Psychiatry. 94, 11, p. 916-923 8 p., jnnp-2023-331531. Research output: Contribution to journal > Article > Academic > peer-review
25. [Discontinuation of first-line disease-modifying therapy in relapse onset multiple sclerosis](#) Coerver, E. M. E., Bourass, A., Wessels, M. H. J., van Kempen, Z. L. E., Jasperse, M. M. S., Tonino, B. A. R., Barkhof, F., Mostert, J., Uitdehaag, B. M. J., Killestein, J. & Strijbis, E. M. M., Jun 2023, In: Multiple Sclerosis and Related Disorders. 74, 104706. Research output: Contribution to journal > Article > Academic > peer-review
26. [Disease activity in patients with immune-mediated inflammatory diseases after SARS-CoV-2 vaccinations](#) van Dam KPJ, Wieske L, Stalman EW, Kummer LYL, Roosen J, van Kempen ZLE, Killestein J, Volkers AG, Boekel L, Wolbink GJ, van der Kooi AJ, Raaphorst J, Löwenberg M, Takkenberg RB, D'Haens GRAM, Spuls PI, Bekkenk MW, Musters AH, Post NF, Bosma AL, Hilhorst ML, Vegting Y, Bemelman FJ, Voskuyl AE, Broens B, Sanchez AP, van Els CACM, de Wit J, Rutgers A, de Leeuw K, Horváth B, Verschuuren JJGM, Ruiters AM, van Ouwkerk L, van der Woude D, Allaart RCF, Teng YKO, van Paassen P, Busch MH, Jallah PBP, Brusse E, van Doorn PA, Baars AE, Hijnen DJ, Schreurs CRG, van der Pol WL, Goedee HS, Steenhuis M, Keijzer S, Keijser JBD, Cristianawati O, Rispens T, Brinke AT, Verstegen NJM, Marieke van Ham S, Tas SW, Kuijpers TW, Eftimov F; T2B! Immunity against SARS-CoV-2 study group. 1 Feb 2023, In: Journal of autoimmunity. 135, 102984. Research output: Contribution to journal > Article > Academic > peer-review
27. [Disease progression in the first 5 years of treatment in multiple sclerosis: Predictive value of early brain and lesion volume changes](#) Mattiesing, R. M., Kramer, E., Strijbis, E. M., Brouwer, I., van Schijndel, R. A., Gentile, G., Battaglini, M., De Stefano, N., Uitdehaag, B. M., Barkhof, F., Vrenken, H. & Schoonheim, M. M., 29 Nov 2023, In: MULTIPLE SCLEROSIS JOURNAL. p. 13524585231212879 Research output: Contribution to journal > Article > Academic > peer-review
28. [Disease severity classification using passively collected smartphone-based keystroke dynamics within multiple sclerosis](#) Hoeijmakers, A., Licitra, G., Meijer, K., Lam, K-H., Molenaar, P., Strijbis, E. & Killestein, J., 1 Dec 2023, In: Scientific reports. 13, 1, 1871. Research output: Contribution to journal > Article > Academic > peer-review
29. [Editorial: Cognitive rehabilitation: a multidisciplinary approach](#) Hulst, H. E., Dobryakova, E., Costa, S. L. & Donkers, S. J., 2023, In: Frontiers in rehabilitation sciences. 4, 1268531. Research output: Contribution to journal > Editorial > Academic > peer-review
30. [Editorial: Redox-signaling in neurodegenerative diseases: biomarkers, targets, and therapies](#) Carvalho, A. N., Branco, V., van Horssen, J. & Saso, L., 2023, In: Frontiers in cellular neuroscience. 17, 1198669. Research output: Contribution to journal > Editorial > Academic > peer-review

31. [Editorial: Trends in biomarkers for neurodegenerative diseases: Current research and future perspectives](#) Dutta, S., Sklerov, M., Teunissen, C. E. & Bitan, G., 2023, In: *Frontiers in aging neuroscience*. 15, 1153932. Research output: Contribution to journal › Editorial › Academic › peer-review
32. [Exploratory clinical efficacy and patient-reported outcomes from NOVA: A randomized controlled study of intravenous natalizumab 6-week dosing versus continued 4-week dosing for relapsing-remitting multiple sclerosis](#) Ryerson, L. Z., Foley, J. F., Defer, G., Cohen, J. A., Arnold, D. L., Butzkueven, H., Cutter, G., Giovannoni, G., Killestein, J., Wiendl, H., Sinks, S., Kuhelj, R., Bodhinathan, K. & Lasky, T., 1 Apr 2023, In: *Multiple Sclerosis and Related Disorders*. 72, 104561. Research output: Contribution to journal › Article › Academic › peer-review
33. [Exploring Vitreous Haze as a Potential Biomarker for Accelerated Glymphatic Outflow and Neurodegeneration in Multiple Sclerosis: A Cross-Sectional Study](#). Kaçar S, Coric D, Ometto G, Montesano G, Denniston AK, Keane PA, Uitdehaag BMJ, Crabb DP, Schoonheim MM, Petzold A, Strijbis EMM. *Brain Sci*. 2023 Dec 30;14(1):36. doi: 10.3390/brainsci14010036.PMID: 3824825
34. [Extended interval dosing of ocrelizumab modifies the repopulation of B cells without altering the clinical efficacy in multiple sclerosis](#) Rodriguez-Mogeda, C., van Lierop, Z. Y. G. J., van der Pol, S. M. A., Coenen, L., Hogenboom, L., Kamermans, A., Rodriguez, E., van Horsen, J., van Kempen, Z. L. E., Uitdehaag, B. M. J., Teunissen, C. E., Witte, M. E., Killestein, J. & de Vries, H. E., Dec 2023, In: *Journal of neuroinflammation*. 20, 1, p. 215 215. Research output: Contribution to journal › Article › Academic › peer-review
35. [Fatty acid desaturation by stearoyl-CoA desaturase-1 controls regulatory T cell differentiation and autoimmunity](#) Grajchen, E., Loix, M., Baeten, P., Côte-Real, B. F., Hamad, I., Vanherle, S., Haidar, M., Dehairs, J., Broos, J. Y., Ntambi, J. M., Zimmermann, R., Breinbauer, R., Stinissen, P., Hellings, N., Verberk, S. G. S., Kooij, G., Giera, M., Swinnen, J. V., Broux, B., Kleinewietfeld, M., Hendriks, J. A., Bogie, J. F. J., Jun 2023, In: *Cellular & molecular immunology*. 20, 6, p. 666-679 14 p. Research output: Contribution to journal › Article › Academic › peer-review
36. [Feasibility of detecting atrophy relevant for disability and cognition in multiple sclerosis using 3D-FLAIR](#) Noteboom, S., van Nederpelt, D. R., Bajrami, A., Moraal, B., Caan, M. W. A., Barkhof, F., Calabrese, M., Vrenken, H., Strijbis, E. M. M., Steenwijk, M. D. & Schoonheim, M. M., Nov 2023, In: *Journal of neurology*. 270, 11, p. 5201-5210 10 p. Research output: Contribution to journal › Article › Academic › peer-review
37. [Fingerprick blood samples to measure serum natalizumab concentrations.](#) Toorop AA, Steenhuis M, Loeff FC, Weijers SS, Killestein J, Rispens T, Kempen ZLV. *Mult Scler*. 2023 Mar;29(3):457-460. doi: 10.1177/13524585221136448. Epub 2022 Nov 30. PMID: 36448735
38. [Genetic influences on disease course and severity, 30 years after a clinically isolated syndrome](#) Sahi, N., Haider, L., Chung, K., Prados Carrasco, F., Kanber, B., Samson, R., Thompson, A. J., Gandini Wheeler-Kingshott, C. A. M., Trip, S. A., Brownlee, W., Ciccarelli, O., Barkhof, F., Tur, C., Houlden, H. & Chard, D., 2023, In: *Brain Communications*. 5, 5, fcd255. Research output: Contribution to journal › Article › Academic › peer-review

39. [Glial fibrillary acidic protein and multiple sclerosis progression independent of acute inflammation](#) Jiang, X., Shen, C., Teunissen, C. E., Wessels, M., Zetterberg, H., Giovannoni, G., Singh, C. M., Caba, B., Elliott, C., Fisher, E., de Moor, C., Belachew, S. & Gafson, A. R., Aug 2023, In: MULTIPLE SCLEROSIS JOURNAL. 29, 9, p. 1070-1079 10 p. Research output: Contribution to journal › Article › Academic › peer-review
40. [How Far Are We in Translating the Multiple Sclerosis Prodromes in Clinical Practice?](#) Palladino, R. & Strijbis, E. M. M., 14 Nov 2023, In: Neurology. 101, 20, p. 873-874 2 p. Research output: Contribution to journal › Editorial › Academic › peer-review
41. [Imaging blood-brain barrier dysfunction: A state-of-the-art review from a clinical perspective](#) Moyaert, P., Padrela, B. E., Morgan, C. A., Petr, J., Versijpt, J., Barkhof, F., Jurkiewicz, M. T., Shao, X., Oyeniran, O., Manson, T., Wang, D. J. J., Günther, M., Achten, E., Mutsaerts, H. J. M. M. & Anazodo, U. C., 2023, In: Frontiers in aging neuroscience. 15, 1132077. Research output: Contribution to journal › Review article › Academic › peer-review
42. [Increased flexibility of brain dynamics in patients with multiple sclerosis](#) von Schwandenflug, N., Koch, S. P., Krohn, S., Broeders, T. A. A., Lydon-Staley, D. M., Bassett, D. S., Schoonheim, M. M., Paul, F. & Finke, C., 2023, In: Brain Communications. 5, 3, fcad143. Research output: Contribution to journal › Article › Academic › peer-review
43. [Longitudinal Changes in Cognitive Test Scores in Patients With Relapsing-Remitting Multiple Sclerosis: An Analysis of the DECIDE Dataset](#) Castrogiovanni, N., Mostert, J., Repovic, P., Bowen, J. D., Uitdehaag, B. M. J., Strijbis, E. M. M., Cutter, G. R. & Koch, M. W., 4 Jul 2023, In: Neurology. 101, 1, p. E1-E11 Research output: Contribution to journal › Article › Academic › peer-review
44. [Longitudinal increase of humoral responses after four SARS-CoV-2 vaccinations and infection in MS patients on fingolimod](#) van Kempen, Z. L. E., van Dam, K. P. J., Keijser, J. B. D., Stalman, E. W., Kummer, L. Y. L., Strijbis, E. M. M., Steenhuis, M., ten Brinke, A., van Ham, S. M., Kuijpers, T., Rispens, T., Eftimov, F., Wieske, L. & Killestein, J., 9 Nov 2023, (E-pub ahead of print) In: MULTIPLE SCLEROSIS JOURNAL. p. 13524585231207761 Research output: Contribution to journal › Article › Academic › peer-review
45. [Longitudinal Metabolite Changes in Progressive Multiple Sclerosis: A Study of 3 Potential Neuroprotective Treatments](#) John, N. A., Solanky, B. S., de Angelis, F., Parker, R. A., Weir, C. J., Stutters, J., Carrasco, F. P., Schneider, T., Doshi, A., Calvi, A., Williams, T., Plantone, D., Monteverdi, A., MacManus, D., Marshall, I., Barkhof, F., Gandini Wheeler-Kingshott, C. A. M. & Chataway, J., 2023, (E-pub ahead of print) In: Journal of magnetic resonance imaging. Research output: Contribution to journal › Article › Academic › peer-review
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47. Multicenter Evaluation of AI-generated DIR and PSIR for Cortical and Juxtacortical Multiple Sclerosis Lesion Detection Bouman, P. M., Noteboom, S., Nobrega Santos, F. A., Beck, E. S., Bliault, G., Castellaro, M., Calabrese, M., Chard, D. T., Eichinger, P., Filippi, M., Inglese, M., Lapucci, C., Marciniak, A., Moraal, B., Pinzon, A. M., Mühlau, M., Preziosa, P., Reich, D. S., Rocca, M. A., Schoonheim, M. M., Twisk, J. W. R., Wiestler, B., Jonkman, L. E., Guttman, C. R. G., Geurts, J. J. G., Steenwijk, M. D., 1 Apr 2023, In: Radiology. 307, 2, e221425. Research output: Contribution to journal › Article › Academic › peer-review
48. Multimodal multilayer network centrality relates to executive functioning Breedt, L. C., Santos, F. A. N., Hillebrand, A., Reneman, L., Rootselaar, A-F. V., Schoonheim, M. M., Stam, C. J., Ticheler, A., Tijms, B. M., Veltman, D. J., Vriend, C., Wagenmakers, M. J., van Wingen, G. A., Geurts, J. J. G., Schranter, A. & Douw, L., 1 Jan 2023, In: Network Neuroscience. 7, 1, p. 299-321 23 p. Research output: Contribution to journal › Article › Academic › peer-review
49. Multiple sclerosis progression: time for a new mechanism-driven framework International Advisory Committee on Clinical Trials in Multiple Sclerosis, 1 Jan 2023, In: The Lancet Neurology. 22, 1, p. 78-88 11 p. Research output: Contribution to journal › Review article › Academic › peer-review
50. Nectins and Nectin-like molecules drive vascular development and barrier function Hermans, D., Rodriguez-Mogeda, C., Kemps, H., Bronckaers, A., de Vries Helga, E. & Broux, B., Aug 2023, In: Angiogenesis. 26, 3, p. 349-362 14 p. Research output: Contribution to journal › Review article › Academic › peer-review
51. Networks of microstructural damage predict disability in multiple sclerosis Colato, E., Prados, F., Stutters, J., Bianchi, A., Narayanan, S., Arnold, D. L., Wheeler-Kingshott, C., Barkhof, F., Ciccarelli, O., Chard, D. T. & Eshaghi, A., 1 Dec 2023, In: Journal of Neurology, Neurosurgery and Psychiatry. 94, 12, p. 992-1003 12 p., jnnp-2022-330203. Research output: Contribution to journal › Article › Academic › peer-review
52. Neuroaxonal and Glial Markers in Patients of the Same Age With Multiple Sclerosis Loonstra, F. C., de Ruiter, L. R. J., Koel-Simmelink, M. J. A., Schoonheim, M. M., Strijbis, E. M. M., Moraal, B., Barkhof, F., Uitdehaag, B. M. J., Teunissen, C. & Killestein, J., 21 Mar 2023, In: Neurology(R) neuroimmunology & neuroinflammation. 10, 2, e200078. Research output: Contribution to journal › Article › Academic › peer-review
53. Neuroimaging to monitor worsening of multiple sclerosis: advances supported by the grant for multiple sclerosis innovation Oh, J., Airas, L., Harrison, D., Järvinen, E., Livingston, T., Lanker, S., Malik, R. A., Okuda, D. T., Villoslada, P. & de Vries, H. E., 2023, In: Frontiers in Neurology. 14, p. 1319869 1319869. Research output: Contribution to journal › Review article › Academic › peer-review
54. Neurophysiological MEG markers of cognitive impairment and performance validity in multiple sclerosis Simon, S., Nauta, I. M., Hillebrand, A., Schoonheim, M. M., Uitdehaag, B. M. J., van Dam, M., Hulst, H. E., Klein, M., Stam, C. J., de Jong, B. A. & Strijbis, E. M. M., Jul 2023, In: MULTIPLE SCLEROSIS JOURNAL. 29, 8, p. 1001-1011 11 p. Research output: Contribution to journal › Article › Academic › peer-review

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