

1. Gorter RP, Stephenson J, Nutma E, Anink J, de Jonge JC, **Baron W**, Jahreiß MC, Belien JAM, van Noort JM, Mijnsbergen C, Aronica E, Amor S.. Rapidly Progressive Amyotrophic Lateral Sclerosis is Associated with Microglial Reactivity and Small Heat Shock Protein Expression in Reactive Astrocytes.. **Neuropathology and Applied Neurobiology** 2018 Oct 22. doi: 10.1111/nan.12525. [Pdf](#)
2. de Jong CGHM, Stancic M, Pinxterhuis TH, van Horssen J, van Dam AM, Gabius HJ, **Baron W**.. Galectin-4, a Negative Regulator of Oligodendrocyte Differentiation, Is Persistently Present in Axons and Microglia/Macrophages in Multiple Sclerosis Lesions.. **Journal of Neuropathology & Experimental Neurology** 2018 24 Aug 2018: nly081,https://doi.org/10.1093/jnen/nly081. [Pdf](#)
3. Klok MD, Bugiani M, de Vries SI, Gerritsen W, Breur M, van der Sluis S, Heine VM, Kole MHP, **Baron W**, van der Knaap MS.. Axonal abnormalities in vanishing white matter.. **Annals of Clinical and Translational Neurology** 2018 Mar 1;5(4):429-444. [Pdf](#)
4. Gorter RP, Nutma E, Jahreiß MC, de Jonge JC, Quinlan R, van der Valk P, van Noort JM, **Baron W**, Amor S.. Heat shock proteins are differentially expressed in brain and spinal cord: implications for multiple sclerosis.. **Clinical & Experimental Immunology** 2018 Jul 17. doi: 10.1111/cei.13186. [Epub ahead of print]. [Pdf](#)
5. Pegoretti V, **Baron W**, Laman JD, Eisel ULM.. Selective Modulation of TNF-TNFRs Signaling: Insights for Multiple Sclerosis Treatment.. **Frontiers in Immunology** 2018 Apr 30;9:925.. [Pdf](#)
6. Wang P, Gorter RP, de Jonge JC, Nazmuddin M, Zhao C, Amor S, Hoekstra D, **Baron W**.. MMP7 cleaves remyelination-impairing fibronectin aggregates and its expression is reduced in chronic multiple sclerosis lesions.. **Glia** 2018 Mar 30. doi: 10.1002/glia.23328. [Epub ahead of print]. [Pdf](#)
7. Sikkema AH, Stoffels JMJ, Wang P, Basedow FJ, Bulsink R, Bajramovic JJ, **Baron W**.. Fibronectin aggregates promote features of a classically and alternatively activated phenotype in macrophages.. **Journal of Neuroinflammation** 2018 Aug 2;15(1):218. [Pdf](#)
8. Lentferink DH, Jongma JM, Werkman I, **Baron W**.. Grey matter OPCs are less mature and less sensitive to IFN γ than white matter OPCs: consequences for remyelination.. **Scientific Reports** 2018 Feb 1;8(1):2113. [Pdf](#)
9. Espitia Pinzón N, Brevé JJP, Bol JGJM, Drukarch B, **Baron W**, van Dam AM.. Tissue transglutaminase in astrocytes is enhanced by inflammatory mediators and is involved in the formation of fibronectin fibril-like structures.. **Journal of Neuroinflammation** 2017 Dec 28;14(1):260. [Pdf](#)
10. Qin J, Sikkema AH, van der Bij K, de Jonge JC, Klappe K, Nies V, Jonker JW, Kok JW, Hoekstra D, **Baron W**. GD1a overcomes inhibition of myelination by fibronectin via activation of protein kinase A. Implications for multiple sclerosis.. **Journal of Neuroscience** 2017 Oct 11;37(41):9925-9938. [Pdf](#)
11. Espitia Pinzon N, Sanz-Morello B, Brevé JJ, Bol JG, Drukarch B, Bauer J, **Baron W**, van Dam AM.. Astrocyte-derived tissue Transglutaminase affects fibronectin deposition, but not aggregation, during cuprizone-induced demyelination.. **Scientific Reports** 2017 Jan 27;7:40995.. [Pdf](#)
12. Lim JL, van der Pol SM, **Baron W**, McCord JM, de Vries HE, van Horssen J.. Protandim Protects Oligodendrocytes against an Oxidative Insult.. **Antioxidants** 2016 Sep 7;5(3).. [Pdf](#)

13. Ozgen H, **Baron W**, Hoekstra D, Kahya N.. Oligodendroglial membrane dynamics in relation to myelin biogenesis.. **Cellular and Molecular Life Sciences** 2016 Sep;73(17):3291-310. Review.. [Pdf](#)
14. Bello-Morales R, Crespillo AJ, Praena B, Tabarés E, Revilla Y, García E, Fraile-Ramos A, **Baron W**, Krummenacher C, López-Guerrero JA.. Role of Proteolipid Protein in HSV-1 Entry in Oligodendrocytic Cells.. **PLoS One** 2016 Jan 25;11(1):e0147885.. [Pdf](#)
15. Bijlard M, de Jonge JC, Klunder B, Nomden A, Hoekstra D, **Baron W**.. MAL Is a Regulator of the Recruitment of Myelin Protein PLP to Membrane Microdomains.. **PLoS One** 2016 May 12;11(5):e0155317.. [Pdf](#)
16. Thiruvalluvan A, Czepiel M, Kap YA, Mantingh-Otter I, Vainchtein I, Kuipers J, Bijlard M, **Baron W**, Giepmans B, Brück W, 't Hart BA, Boddeke E, Copray S.. Survival and Functionality of Human Induced Pluripotent Stem Cell-Derived Oligodendrocytes in a Nonhuman Primate Model for Multiple Sclerosis.. **Stem Cells Translational Medicine** 2016 Jul 11. pii: sctm.2016-0024. [Epub ahead of print]. [Pdf](#)
17. Stoffels JM, Hoekstra D, Franklin RJ, **Baron W**, Zhao C.. The E11A domain from astrocyte-derived fibronectin mediates proliferation of oligodendrocyte progenitor cells following CNS demyelination.. **Glia** 2015 Feb;63(2):242-56.. [Pdf](#)
18. Bijlard M, Klunder B, de Jonge JC, Nomden A, Tyagi S, de Vries H, Hoekstra D, **Baron W**.. Transcriptional expression of myelin basic protein in oligodendrocytes depends on functional syntaxin 4: a potential correlation with autocrine signaling.. **Molecular and Cellular Biology** 2015 Feb;35(4):675-87.. [Pdf](#)
19. **Baron W**, Ozgen H, Klunder B, de Jonge JC, Nomden A, Plat A, Trifilieff E, de Vries H, Hoekstra D.. The major myelin-resident protein PLP is transported to myelin membranes via a transcytotic mechanism: involvement of sulfatide.. **Molecular and Cellular Biology** 2015 Jan;35(1):288-302.. [Pdf](#)
20. **Baron W**, Bijlard M, Nomden A, de Jonge JC, Teunissen CE, Hoekstra D.. Sulfatide-mediated control of extracellular matrix-dependent oligodendrocyte maturation.. **Glia** 2014 Jun;62(6):927-42.. [Pdf](#)
21. Vos MJ, Mijnhout GS, Rondeel JM, **Baron W**, Groeneveld PH.. Sex hormone binding globulin deficiency due to a homozygous missense mutation.. **Journal of Clinical Endocrinology & Metabolism** 2014 Sep;99(9):E1798-802.. [Pdf](#)
22. Ozgen H, Schrimpf W, Hendrix J, de Jonge JC, Lamb DC, Hoekstra D, Kahya N, **Baron W**.. The lateral membrane organization and dynamics of myelin proteins PLP and MBP are dictated by distinct galactolipids and the extracellular matrix.. **PLoS One** 2014 Jul 8;9(7):e101834.. [Pdf](#)
23. Ozgen H, Schrimpf W, Hendrix J, de Jonge JC, Lamb DC, Hoekstra D, Kahya N, **Baron W**.. The lateral membrane organization and dynamics of myelin proteins PLP and MBP are dictated by distinct galactolipids and the extracellular matrix.. **PLoS One** 2014 Jul 8;9(7):e101834.. [Pdf](#)
24. Stoffels JM, de Jonge JC, Stancic M, Nomden A, van Strien ME, Ma D, Sisková Z, Maier O, Ffrench-Constant C, Franklin RJ, Hoekstra D, Zhao C, **Baron W**.. Fibronectin aggregation in multiple sclerosis lesions impairs remyelination.. **Brain** 2013 Jan;136(Pt 1):116-31.. [Pdf](#)
25. Stoffels JM, Zhao C, **Baron W**.. Fibronectin in tissue regeneration: timely disassembly of the scaffold is necessary to complete the build.. **Cellular and Molecular Life Sciences** 2013 Nov;70(22):4243-53. Review.. [Pdf](#)

26. Stoffels JM, Zhao C, **Baron W**.. Author's reply to: Comment on: Fibronectin in tissue regeneration: timely disassembly of the scaffold is necessary to complete the build.. **Cellular and Molecular Life Sciences** 2013 Nov;70(22):4257. No abstract available.. [Pdf](#)
27. Espitia Pinzon N, **Baron W**, Breve JJ, Drukarch B, , van Dam A-M. T04-03A Astrocyte-derived TG2 contributes to ECM production and aggregation, and cell adhesion. **Glia** 2013 61, S. Poster. [Pdf](#)
28. Qin J, Hoekstra D, **Baron W**.. T08-07B Ganglioside GD1A: a novel molecular tool to promote remyelination in MS lesions?. **Glia** 2013 61, S137-S137. Poster. [Pdf](#)
29. Stancic M, Slijepcevic D, Nomden A, Vos MJ, de Jonge JC, Sikkema AH, Gabius HJ, Hoekstra D, **Baron W**.. Galectin-4, a novel neuronal regulator of myelination.. **Glia** 2012 May;60(6):919-35.. [Pdf](#)
30. Bsibsi M, Nomden A, van Noort JM, **Baron W**.. Toll-like receptors 2 and 3 agonists differentially affect oligodendrocyte survival, differentiation, and myelin membrane formation.. **Journal of Neuroscience Research** 2012 Feb;90(2):388-98.. [Pdf](#)
31. Van Strien ME, **Baron W**, Bakker EN, Bauer J, Bol JG, Brevé JJ, Binnekade R, Van Der Laarse WJ, Drukarch B, Van Dam AM.. Tissue transglutaminase activity is involved in the differentiation of oligodendrocyte precursor cells into myelin-forming oligodendrocytes during CNS remyelination.. **Glia** 2011 Nov;59(11):1622-34.. [Pdf](#)
32. Vereyken EJ, Heijnen PD, **Baron W**, de Vries EH, Dijkstra CD, Teunissen CE.. Classically and alternatively activated bone marrow derived macrophages differ in cytoskeletal functions and migration towards specific CNS cell types.. **Journal of Neuroinflammation** 2011 May 26;8:58.. [Pdf](#)
33. Stancic M, van Horssen J, Thijssen VL, Gabius HJ, van der Valk P, Hoekstra D, **Baron W**.. Increased expression of distinct galectins in multiple sclerosis lesions.. **Neuropathology and Applied Neurobiology** 2011 Oct;37(6):654-71.. [Pdf](#)
34. Stancic M, van Horssen J, Thijssen VL, Gabius HJ, van der Valk P, Hoekstra D, **Baron W**.. Increased expression of distinct galectins in multiple sclerosis lesions.. **Neuropathology and Applied Neurobiology** 2011 Oct;37(6):654-71.. [Pdf](#)
35. **Baron W**, Hoekstra D.. On the biogenesis of myelin membranes: sorting, trafficking and cell polarity.. **FEBS Letters** 2010 May 3;584(9):1760-70. Review.. [Pdf](#)
36. **Baron W**, Klunder B, de Jonge J, Nomden A, Plat A, Maier O, ... Hoekstra D.. The major myelin-resident protein PLP is transported to myelin membranes via a transcytotic mechanism: involvement of sulfatide.. **Glia** 2009 57(13), S118-S118.. [Pdf](#)
37. Stancic M, Gabiu, JH, Maier O, Hoekstra D, **Baron W**.. Immunohistochemical study of Galectins 1 and 9 in Multiple Sclerosis.. **Glia** 2009 57(13), S135-S136.. [Pdf](#)
38. Stoffels J, Zhao C, de Jonge J, Nomden A, Stancic M, Hoekstra D, ... **Baron W**.. Fibronectin in remyelination: Do astrocytes secrete pathological multimers in Multiple Sclerosis?. **Glia** 2009 57(13), S147-S147.. [Pdf](#)
39. Van Strien M, **Baron W**, Bauer J, Bol J, Breve J, Bakker E, ... Van Dam AM.. Tissue transglutaminase activity is essential in (re)myelination by oligodendrocytes: Implications for therapy in multiple sclerosis.. **Glia** 2009 57(13), S151.. [Pdf](#)
40. Boor NV, Bugiani M, Van Berkel C, Scheper G, **Baron W**, Goldman S, Van der Knaap M.. Maturation defects of Glia progenitors in vanishing white matter.. **Glia** 2009 57(13), S81-S81.. [Pdf](#)

41. Maier O, De Jonge J, Nomden A, Hoekstra D, **Baron W**.. Lovastatin induces the formation of abnormal myelin-like membrane sheets in primary oligodendrocytes.. **Glia** 2009 Mar;57(4):402-13.. [Pdf](#)
42. Sisková Z, Yong VW, Nomden A, van Strien M, Hoekstra D, **Baron W**.. Fibronectin attenuates process outgrowth in oligodendrocytes by mislocalizing MMP-9 activity.. **Molecular and Cellular Neuroscience** 2009 Nov;42(3):234-42.. [Pdf](#)
43. Bsibsi M, **Baron W**, van Noort J.. Toll-like receptors profiles and functions in astrocytes, microglia and oligodendrocytes.. **Journal of Neuroimmunology** 2008 203(2), 194-195.. [Pdf](#)
44. Klunder B, **Baron W**, Schrage C, de Jonge J, de Vries H, Hoekstra D.. Sorting signals and regulation of cognate basolateral trafficking in myelin biogenesis.. **Journal of Neuroscience Research** 2008 Apr;86(5):1007-16.. [Pdf](#)
45. Maier O, Hoekstra D, **Baron W**.. Polarity development in oligodendrocytes: sorting and trafficking of myelin components.. **Journal of Molecular Neuroscience** 2008 May;35(1):35-53. Review.. [Pdf](#)
46. Maier O, **Baron W**, Hoekstra D.. Reduced raft-association of NF155 in active MS-lesions is accompanied by the disruption of the paranodal junction.. **Glia** 2007 Jun;55(8):885-95.. [Pdf](#)
47. Maier O, Dalinga J, **Baron W**, Hoekstra D.. Lovastatin induces abnormal myelin sheet formation by oligodendrocytes.. **Neuron glia biology** 2007 2, S88-S88.. [Pdf](#)
48. **Baron W**, Klunder B, De Jonge J, Nomden A, De Vries H, Hoekstra D.. Distinct roles of syntaxins 3 and 4 in the biogenesis of myelin membranes in oligodendrocytes.. **Neuron glia biology** 2007 2, S88-S89.. [Pdf](#)
49. van Meeteren ME, **Baron W**, Beermann C, van Tol EAF.. Polyunsaturated fatty acid supplementation stimulates differentiation of oligodendroglia cells.. **Developmental neuroscience** 2006 28(3), 196-208.. [Pdf](#)
50. Maier O, van der Heide T, Johnson R, de Vries H, **Baron W**, Hoekstra D.. The function of neurofascin155 in oligodendrocytes is regulated by metalloprotease-mediated cleavage and ectodomain shedding.. **Experimental Cell Research**. 2006 Feb 15;312(4):500-11.. [Pdf](#)
51. Gielen E, **Baron W**, Vandeven M, Steels P, Hoekstra D, Ameloot M.. Rafts in oligodendrocytes: Evidence and structure-function relationship.. **Glia** 2006 54(6), 499-512.. [Pdf](#)
52. Sisková Z, **Baron W**, de Vries H, Hoekstra D.. Fibronectin impedes "myelin" sheet-directed flow in oligodendrocytes: a role for a beta 1 integrin-mediated PKC signaling pathway in vesicular trafficking.. **Molecular and Cellular Neuroscience** 2006 Oct;33(2):150-9.. [Pdf](#)
53. **Baron W**, Cognato H, French-Constant C.. Integrin-growth factor interactions as regulators of oligodendroglial development and function.. **Glia** 2005 Mar;49(4):467-79. Review. Erratum in: **Glia**. 2005 Jul;51(1):80.. [Pdf](#)
54. Maier O, van der Heide T, van Dam AM, **Baron W**, de Vries H, Hoekstra D.. Alteration of the extracellular matrix interferes with raft association of neurofascin in oligodendrocytes. Potential significance for multiple sclerosis?. **Molecular and Cellular Neuroscience** 2005 Feb;28(2):390-401.. [Pdf](#)
55. Smilda T, Kamminga AH, Reinders P, **Baron W**, van Hylckama Vlieg JE, Beintema JJ.. Enzymic and structural studies on Drosophila alcohol dehydrogenase and other short-chain dehydrogenases/reductases.. **Journal of Molecular Evolution** 2001 May;52(5):457-66.. [Pdf](#)

56. **Baron W**, de Jonge JC, de Vries H, Hoekstra D.. Perturbation of myelination by activation of distinct signaling pathways: an in vitro study in a myelinating culture derived from fetal rat brain.. **Journal of Neuroscience Research** 2000 Jan 1;59(1):74-85.. [Pdf](#)
57. **Baron W**, Metz B, Bansal R, Hoekstra D, de Vries H.. PDGF and FGF-2 signaling in oligodendrocyte progenitor cells: regulation of proliferation and differentiation by multiple intracellular signaling pathways.. **Molecular and Cellular Neuroscience** 2000 Mar;15(3):314-29.. [Pdf](#)
58. **Baron W**, de Vries EJ, de Vries H, Hoekstra D.. Protein kinase C prevents oligodendrocyte differentiation: modulation of actin cytoskeleton and cognate polarized membrane traffic.. **Journal of Neurobiology** 1999 Nov 15;41(3):385-98.. [Pdf](#)
59. **Baron W**, de Jonge JC, de Vries H, Hoekstra D.. Regulation of oligodendrocyte differentiation: protein kinase C activation prevents differentiation of O2A progenitor cells toward oligodendrocytes.. **Glia** 1998 Feb;22(2):121-9.. [Pdf](#)
60. Perton FG, **Baron W**, Scheffer AJ, Beintema JJ.. Production and characterization of monoclonal antibodies against Panulirus interruptus hemocyanin.. **Biological Chemistry Hoppe Seyler. (now: Biological Chemistry)** 1995 Apr;376(4):243-7.. [Pdf](#)