

Myelin Repair Foundation Bibliography

Published Papers – 2008

Bailey-Bucktrout, S. L., S. Caulkins, G. Goings, J. A. Fischer, A. Dzionek, and S. D. Miller. 2008. **Cutting Edge: CNS plasmacytoid dendritic cells regulate the severity of relapsing experimental autoimmune encephalomyelitis.** *J. Immunol.* 180:6457-6461 (PMID: 18453561).
http://www.ncbi.nlm.nih.gov/pubmed/18453561?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Bailey, S. L., B. Schreiner, and S. D. Miller. 2008. **CNS dendritic cells in inflammation and disease.** In: **Central Nervous System Diseases and Inflammation.** (T. E. Lane, M. Carson, C. Bergmann and T. Wyss-Coray, eds.). Springer, New York, NY. Pp 263-275.
<http://www.springerlink.com/content/117910144487u803/>

Cahoy JD, Emery B, Kaushal A, Foo LC, Zamanian JL, Christopherson KS, Xing Y, Lubischer JL, Krieg PA, Krupenko SA, Thompson WJ, Barres BA.. **A transcriptome database for astrocytes, neurons, and oligodendrocytes: a new resource for understanding brain development and function.** *Journal of Neuroscience* (2008) Volume 28, pages 264-78.
http://www.ncbi.nlm.nih.gov/pubmed/18171944?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Carpentier, P. A., D. S. Duncan, and S. D. Miller. 2008. **Pattern recognition receptors in CNS disease.** In: **Central Nervous System Diseases and Inflammation** (T. E. Lane, M. Carson, C. Bergmann and T. Wyss-Coray, eds.). Springer, New York, NY. Pp 131-152.
<http://www.springerlink.com/content/w686804555168173/>

Carpentier, P. A., D. S. Duncan, and S. D. Miller. 2008. **Glial Toll-like receptor signaling in central nervous system infection and autoimmunity.** *Brain Behav. Immun.* 22:140-147. (*co-first authors).
http://www.ncbi.nlm.nih.gov/pubmed/17920811?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Carpentier, P. A., M. Teague Getts, and S. D. Miller. 2008. **Pro-inflammatory functions of astrocytes correlate with viral clearance and strain-dependent protection from TMEV-induced demyelinating disease.** *Virology*. 375:24-36

http://www.ncbi.nlm.nih.gov/pubmed/18289626?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Chunying Wu, Jinjun Wei, Donghua Tian, Yue Feng, Robert H. Miller, and Yanming Wang. **Molecular Probes for Imaging Myelinated White Matter in CNS.** *J Med Chem*. 2008 Nov 13;51(21):6682-8.

http://www.ncbi.nlm.nih.gov/pubmed/18844339?ordinalpos=17&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Lin W, Kunkler PE, Harding HP, Ron D, Kraig RP, Popko B. **Enhanced integrated stress response promotes myelinating oligodendrocyte survival in response to interferon-gamma.** *Am J Pathol*. 2008 Nov;173(5):1508-17.

http://www.ncbi.nlm.nih.gov/pubmed/18818381?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Popko B: **Epigenetic Control of Myelin Repair.** *Nature Neuroscience*. 2008 11(9):987-988.

http://www.ncbi.nlm.nih.gov/pubmed/18725899?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Teague Getts, M., D. Getts, A. P. Kohm, and S. D. Miller. 2008. The ER stress response as a therapeutic target in MS. *Therapy*. *In press*.

<http://www.futuremedicine.com/doi/abs/10.2217/14750708.5.5.631>

Traka M, Wollmann RL, Cerda SR, Dugas J, Barres BA, Popko B: **Nur7 is a nonsense mutation in the mouse aspartoacylase gene that causes spongy degeneration of the CNS.** *J Neurosci*. 2008 28(45):11537-11549.

http://www.ncbi.nlm.nih.gov/pubmed/18987190?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Watkins T, Emery B, Mulinyawe S, and Barres B. **Distinct stages of myelination regulated by gamma secretase and astrocytes in a rapidly myelinating CNS co-culture system.** *Neuron*. 2008 Nov 26;60(4):555-69.

http://www.ncbi.nlm.nih.gov/pubmed/19038214?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Zhang, H., J. R. Podojil, X. Luo, and S. D. Miller. **Intrinsic and induced regulation of the age-associated onset of spontaneous experimental autoimmune encephalomyelitis.** *J. Immunol*. 2008 Oct 1;181(7):4638-47.

http://www.ncbi.nlm.nih.gov/pubmed/18802066?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Published Papers 2007

Bai, Lianhua; Caplan, Arnold; Lennon, Donald; Miller, Robert H.. **Human Mesenchymal Stem Cells Signals Regulate Neural Stem Cell Fate.** *Neurochemical Research* (2007), 32(2): 353-362.

[http://www.ncbi.nlm.nih.gov/pubmed/17191131?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationsensor](http://www.ncbi.nlm.nih.gov/pubmed/17191131?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationsensor)

Bailey, S. L., B. Schreiner, E. J. McMahon, and S. D. Miller. **CNS myeloid dendritic cells presenting endogenous myelin peptides preferentially polarize CD4⁺ Th17 cells in relapsing EAE.** (2007), *Nat. Immunol.* 8:172-180.

http://www.ncbi.nlm.nih.gov/pubmed/17206145?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Balabanov, Roumen; Strand, Krystle; Goswami, Rajendra; McMahon, Eileen; Begolka, Wendy; Miller, Stephen D.; Popko, Brian. **Interferon- γ -Oligodendrocyte Interactions in the Regulation of Experimental Autoimmune Encephalomyelitis.** *J. Neurosci.* (2007), 27(8): 2013-2024.

[http://www.ncbi.nlm.nih.gov/pubmed/17314297?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationsensor](http://www.ncbi.nlm.nih.gov/pubmed/17314297?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationsensor)

Dugas, Jason C.; Ibrahim, Adiljan; Barres, Ben A.. **A Crucial Role for p57^{Kip2} in the Intracellular Timer that Controls Oligodendrocyte Differentiation.** *Journal of Neuroscience* (2007), 27(23): 6185-6196.

http://www.ncbi.nlm.nih.gov/pubmed/17553990?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Frederick, Terra J.; Miller, Stephen D.. **Arresting autoimmunity by blocking β -arrestin 1.** *Nature Immunology* (2007), Vol. 8, No. 8, 791-792.

http://www.ncbi.nlm.nih.gov/pubmed/17641656?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Fuller, M.L.; DeChant, A. K.; Rothstein, B.; Caprariello, A.; Wang, R.Z.; Hall, A.K.; Miller, R.H.. **Bone morphogenic proteins promote gliosis in demyelinating spinal cord lesions.** *Annals of Neurology* (2007), 62 (3): 288-300.

http://www.ncbi.nlm.nih.gov/pubmed/17696121?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Hartline, D.; Colman, D.R.. **Rapid conduction and the evolution of giant axons and myelinated fibers.** *Curr. Biol.* (2007), 17:R29-R35.

http://www.ncbi.nlm.nih.gov/pubmed/17208176?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Lin, Wensheng; Bailey, Samantha L.; Ho, Hanson; Harding, Heather P.; Ron, David; Miller, Stephen D.; Popko, Brian.. **The integrated stress response prevents demyelination by protecting oligodendrocytes against immune-mediated damage.** *Journal of Clinical Investigation* (2007), 117(2): 448-456.

http://www.ncbi.nlm.nih.gov/pubmed/17273557?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Mi, S.; Miller, R. H.. **Dissecting Demyelination.** *Nature Neuroscience* (2007), 10(11): 1351-1354.

http://www.ncbi.nlm.nih.gov/pubmed/17965654?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Miller, R. H.; Bai, L.. **The Expanding Influence of Stem Cells in Neural Repair.**

Editorial. *Annals of Neurology* (2007), 61 (3): 187-8.

[http://www.ncbi.nlm.nih.gov/pubmed/17387729?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationensor](http://www.ncbi.nlm.nih.gov/pubmed/17387729?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationensor)

Miller, R. H.; Bai, L.. **Cellular approaches for stimulating CNS remyelination.** *Regen Med* (2007), 2(5): 817-29.

http://www.ncbi.nlm.nih.gov/pubmed/17907933?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Miller, Stephen D.; Turley, Danielle M.; Podojil, Josephe R.. **Antigen-specific tolerance strategies for the prevention and treatment of autoimmune disease.** *Nature Reviews: Immunology* (2007), Vol. 7, 665-677.

[http://www.ncbi.nlm.nih.gov/pubmed/17690713?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationensor](http://www.ncbi.nlm.nih.gov/pubmed/17690713?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationensor)

Schreiner, Bettina; Bailey, Samantha L.; Miller, Stephen D.. **T-cell response dynamics in animal models of multiple sclerosis: implications for immunotherapies.** *Expert Review of Clinical Immunology* (2007), 3(1): 57-72.

Shapiro, L.; Love, J.; Colman, D.R.. **Adhesion molecules in the nervous system: structural insights into function and diversity.** *Ann. Rev. Neurosci.* (2007), 30:451-474.

http://www.ncbi.nlm.nih.gov/pubmed/17600523?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Turley, D. M. and S. D. Miller. 2007. **Peripheral tolerance induction using ECDI-fixed APCs uses both direct and indirect mechanisms of antigen presentation for prevention of EAE.** *J. Immunol.* 178:2212-2220.

http://www.ncbi.nlm.nih.gov/pubmed/17277126?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Published Papers - 2006

Bailey, Samatha L.; Carpentier, Pamela A.; McMahon, Eileen J.; Smith Begolka, Wendy; Miller, Stephen D.. **Innate and Adaptive Immune Responses of the Central Nervous System.** *Critical Reviews™ in Immunology* (2006), 26(2):149-188.

[http://www.ncbi.nlm.nih.gov/pubmed/16700651?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationensor](http://www.ncbi.nlm.nih.gov/pubmed/16700651?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationensor)

Bailey, Samantha L.; Schreiner, Bettina; McMahon, Eileen J.; Miller, Stephen D.. **_CNS myeloid DCs presenting endogenous myelin peptides 'preferentially' polarize CD4+ TH-17 cells in relapsing EAE.** *Nature Immunology* (2006), Volume Date 2007, 8(2): 172-180.

http://www.ncbi.nlm.nih.gov/pubmed/17206145?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Bailey, S. L., B. Schreiner, and S. D. Miller. **CNS dendritic cells in inflammation and disease.** *Neurochem Int.* 2006. Jul;49(2):195-203.

http://www.ncbi.nlm.nih.gov/pubmed/16730862?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Balabanov, Roumen; Strand, Krystal; Kemper, April; Lee, Ji Yeon; Popko, Brian.. **Suppressor of cytokine signaling 1 expression protects oligodendrocytes from the deleterious effects of interferon-gamma.** *Journal of Neuroscience* (2006), 26(19): 5143-5152.

http://www.ncbi.nlm.nih.gov/pubmed/16687505?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Begolka, W. S., E. J. McMahon, and S. D. Miller. 2006. **Cytokines and immune regulation in the nervous system.** In: *Cytokines and the CNS* (E. Benveniste and R. M. Ransohoff, eds.). CRC Press, New York. Pp. 137-162.

Dugas, Jason C.; Tai, Yu, Chuan; Speed, Terence, P.; Ngai, John; Barres, Ben A.. **Functional genomic analysis of oligodendrocyte differentiation.** *Journal of Neuroscience* (2006), 26(43): 10967-10983.

http://www.ncbi.nlm.nih.gov/pubmed/17065439?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Ercolini, Anne M.; Miller, Stephen D.. **Mechanisms of Immunopathology in Murine Models of Central Nervous System Demyelinating Disease.** *Journal of Immunology* (2006), 3293-3298.

http://www.ncbi.nlm.nih.gov/pubmed/16517694?ordinalpos=5&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Frederick, Terra J.; Miller, Stephen D.. **Future of multiple sclerosis therapy; combining antigen-specific immunotherapy with strategies to promote myelin repair.** *Future Neurol.* (2006), 1(4): 489-503.

Gao, Limin; Macklin, Wendy; Gerson, James; Miller, Robert H.. **Intrinsic and extrinsic inhibition of oligodendrocyte development by rat retina.** *Developmental Biology* (2006), 290(2): 277-286.

http://www.ncbi.nlm.nih.gov/pubmed/16388796?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Gao, Limin; Miller, Robert H.. **Specification of optic nerve oligodendrocyte precursors by retinal ganglion cell axons.** *Journal of Neuroscience* (2006), 26(29): 7619-7628.

http://www.ncbi.nlm.nih.gov/pubmed/16855089?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Gao, Limin; Miller, Robert H.. **Cytokines and development of the nervous system.** *Cytokines and the CNS* (2nd Edition) (2006), 93-112.

Lin, W.; Kemper, A.; Dupree, J. L.; Harding, H.P.; Ron, D.; Popko, B.. **Interferon gamma Inhibits Central Nervous System Remyelination through a Process Modulated by Endoplasmic Reticulum Stress.** *Brain* (2006), 129: 1306-1318.

http://www.ncbi.nlm.nih.gov/pubmed/16504972?ordinalpos=5&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

McMahon, E. J., S. L. Bailey, and S. D. Miller. 2006. **CNS dendritic cells: critical participants in CNS inflammation?** *Neurochem. Intl.* 49:195-203. Co-first authors)
http://www.ncbi.nlm.nih.gov/pubmed/16730862?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Miller, Robert H.. **The promise of stem cells for neural repair.** *Brain Research* (2006), 1091(1): 258-264.

http://www.ncbi.nlm.nih.gov/pubmed/16563359?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Padovani-Claudio, Dolly A; Liu, Liping; Ransohoff, Richard M; Miller, Robert H.. **Alterations in the oligodendrocyte lineage, myelin, and white matter in adult mice lacking the chemokine receptor CXCR2.** *Glia* (2006), 54(5): 471-83.

http://www.ncbi.nlm.nih.gov/pubmed/16886211?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Podojil, Joseph R.; Miller, Stephen D.. **Immunopathological mechanisms in multiple sclerosis.** *Drug Discovery Today: Disease Mechanisms* (2006), Vol. 3, No. 2.

Podojil, Joseph R.; Kohm, Adam P.; Miller, Stephen D.. **CD4+ T Cell Expressed CD80 Regulates Central Nervous System Effector Function and Survival during Experimental Autoimmune Encephalomyelitis.** *Journal of Immunology* (2006), 177: 2948-2958.

http://www.ncbi.nlm.nih.gov/pubmed/16517695?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Roth, A.; Ivanova, A.; Colman, D.R.. **New observations on the compact myelin proteome.** *Neuron Glia Biol.* (2006), 2:15-21.

http://www.ncbi.nlm.nih.gov/pubmed/18634588?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Smith, C. E. and S. D. Miller. 2006. **Multi-peptide coupled-cell tolerance ameliorates ongoing EAE associated with multiple pathogenic autoreactivities.** *J. Autoimmunity.* 27:218-231.

http://www.ncbi.nlm.nih.gov/pubmed/17289470?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Tsai, Hui-Hsin; Macklin, Wendy B.; Miller, Robert H.. **Netrin-1 is required for the normal development of spinal cord oligodendrocytes.** *Journal of Neuroscience* (2006), 26(7): 1913-1922.
[http://www.ncbi.nlm.nih.gov/pubmed/16481423?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log\\$=citationsensor](http://www.ncbi.nlm.nih.gov/pubmed/16481423?ordinalpos=&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.SmartSearch&log$=citationsensor)

Published Papers - 2005

Balabanov, R; Popko, B.. **Myelin Repair: developmental myelination redux?** *Nature Neuroscience* (2005), 8:262-264.
http://www.ncbi.nlm.nih.gov/pubmed/15746910?ordinalpos=6&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Dupree, JL; Mason, JL; Marcus, JR; Stull, M; Levinson, R, Matsushima, GK; Popko, B: **Oligodendrocytes assist in the maintenance of sodium channel clusters independent of the myelin sheath.** *Neuron Glia Biology* (2005), 1: 1-14.
http://www.ncbi.nlm.nih.gov/pubmed/18634596?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Gao, L; Miller, RH. **Cytokines and the Development of the Nervous system.** *Cytokines and the CNS* (2005), 2nd ed. pp93-113. Eds R. Ransohoff and E. Benveniste.

Huang, JK; Phillips, GR; Roth, AD; Pedraza, L; Shan, W; Belkaid, W; Mi, S; Fex-Svenningsen, A; Florens, L; Yates, JR 3rd; Colman, DR.. **Glial membranes at the node of Ranvier prevent neurite outgrowth.** *Science* (2005), Dec 16, 310 (5755): 1813-7. Epub (2005), Nov 17.
http://www.ncbi.nlm.nih.gov/pubmed/16293723?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Lin, W; Harding, HP; Ron, R; Popko, B.. **ER Stress Modulates the Response of Myelinating Oligodendrocytes to the Immune Cytokine Interferon- γ .** *J. Cell Biol.* (2005), 169: 603-612.
http://www.ncbi.nlm.nih.gov/pubmed/15911877?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

McMahon, E. J.; Bailey, S. L.; Vanderlugt-Castenada, C. L.; Waldner, H.; Miller, S. D.. **Epitope spreading initiates in the CNS in two mouse models of multiple sclerosis.** *Nature Med.* (2005), 11: 335-339. (*highlighted in Nature Med. News and Views* 11: 252-253).
http://www.ncbi.nlm.nih.gov/pubmed/15735651?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Minter, L. M.; Turley, D. M.; Das, P.; Shin, H. M.; Joshi, I.; Lawlor, R. G.; Cho, O. H.; Palaga, T.; Telfer, J. C.; Kostura, L.; Fauq, A. H.; Simpson, K.; Such, K. A.; Miele, L.; Golde, T. E.; Miller, S. D.; Osborne, B. A.. **Inhibitors of γ -secretase block *in vivo* and *in vitro* T helper type 1 polarization by preventing Notch upregulation of *Tbx21*.** *Nature Immunol.* (2005), 6: 680-688.
http://www.ncbi.nlm.nih.gov/pubmed/15991363?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Phillips, G.R., Florens, L., Tanaka H., Khaing Z.Z., Fidler L., Yates, J.R. 3rd, Colman, D.R. **Proteomic comparison of two fractions derived from the transsynaptic scaffold.** *J. Neurosci. Res.* (2005) 81:762-75.
http://www.ncbi.nlm.nih.gov/pubmed/16047384?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Published Papers - 2004

Chan, J.R.; Watkins, T.A.; Cosgaya, J.M.; Zhang, C.Z.; Chen, L.; Reichardt, L.F.; Shooter, E.M.; Barres, B.A.. 2004. **NGF controls axonal receptivity to myelination by Schwann cells or oligodendrocytes.** *Neuron* 43(2):183-91.
http://www.ncbi.nlm.nih.gov/pubmed/15260955?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Colman, D.R. 2004. **Obedient and wayward synaptic behavior.** *Cell* 116:766-7.
http://www.ncbi.nlm.nih.gov/pubmed/15035979?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Koch, A.W., Farooq, A., Shan, W., Zeng L., Colman, D. R., and Zhou, M. M. 2004. **Structure of the neural (N-) cadherin prodomain reveals a cadherin extracellular domain-like fold without adhesive characteristics.** *Structure* 12:793-805.
http://www.ncbi.nlm.nih.gov/pubmed/15130472?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Shan, W., Yagita, Y., Wang, Z., Koch, A., Svenningsen, A.F., Gruzglin, E., Pedraza, L., Colman, D.R. 2004. **The minimal essential unit for cadherin-mediated intercellular adhesion comprises extracellular domains 1 and 2.** *J Biol Chem.* 279:55914-23.
http://www.ncbi.nlm.nih.gov/pubmed/15485826?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum

Svenningsen, A.F., Colman, D. R., and Pedraza, L. 2004. **Satellite cells of dorsal root ganglia are multipotential glial precursors.** *Neuron Glia Biology* 1:85-93.
http://www.ncbi.nlm.nih.gov/pubmed/18634609?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum