

Neuroimmunology: Autoimmune Inflammatory Disorders of the Central Nervous System

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Select Publications

1. **Owens, G.P., Bennett, J.L.**, Lassmann, H., O'Connor, K.C., Ritchie, A.M., Shearer, A., Lam, C., Yu, X., Birlea, M., DuPree, C., Williamson, R.A., Hafler, D.A., Burgoon, M.P., Gilden, D.: Antibodies produced by clonally expanded plasma cells in MS CSF. *Ann. Neurol.* 65:639-649, 2009.
2. **Bennett, J.L.**, Lam, C., Kalluri, S.R., Saikali, P., Bautista, K., Dupree, C., Glogowska, M., Case, D., Antel, J.P., **Owens, G.P.**, Gilden, D., Nessler, S., Stadelmann, C., Hemmer, B.: Intrathecal pathogenic anti-aquaporin-4 antibodies in early neuromyelitis optica. *Ann. Neurol.*, 2009, 66:617-629, 2009.
3. Blauth K, Matschulat A, Reiter CR, Ritchie A, Baird NL, **Bennett JL** and **Owens GP**. Antibodies produced by clonally expanded plasma cells in multiple sclerosis cerebrospinal fluid cause demyelination of spinal cord explants. *Acta neuropathologica* 130: 765- 781, 2015.
4. Shimizu F, Schaller KL, **Owens GP**, Coteleur AC, Kellner D, Takeshita Y, Obermeier B, Kryzer TJ, Sano Y, Kanda T, Lennon VA, Ransohoff RM, **Bennett JL**. Glucose-Regulated Protein 78 autoantibody associates with blood-brain barrier disruption in neuromyelitis optica. *Sci Trans Med*, 9:2017.
5. Liu Y, Given KS, Harlow DE, Matschulat AM, Macklin WB, **Bennett JL**, **Owens GP**. Myelin-specific multiple sclerosis antibodies cause complement-dependent oligodendrocyte loss and demyelination. *Acta Neuropathol Comm.* 5:25, 2017.
6. Kowarik MC, Astling D, Gasperi C, Wemlinger S, Schumann H, Dzieciatkowska M, Ritchie AM, Hemmer B, **Owens GP**, **Bennett JL**. CNS aquaporin-4-specific B cells connect with multiple B-cell compartments in neuromyelitis spectrum disorder. *Ann Clin Transl Neurol*, 4:2017.
7. Peschl, P., Schanda, K., Zeka, B., Given, K., Böhm, D., Ruprecht, K., et al. (2017). Human antibodies against the myelin oligodendrocyte glycoprotein can cause complement-dependent demyelination. *Journal of Neuroinflammation*, 14(1), 208.
8. Liu | Y, Given KS, **Owens GP**, Macklin WB, **Bennett JL**. Distinct patterns of glia repair and remyelination in antibody mediated demyelination models of multiple sclerosis and neuromyelitis optica. *Glia* 12, 2018.
9. Soltys J, Liu Y, Ritchie AM, Wemlinger S, Schaller K, Schumann H, **Owens GP**, **Bennett JL**. Membrane assembly of aquaporin-4 autoantibodies regulates classical complement activation in neuromyelitis optica. *J Clin Invest* 130, 2019.
10. Liu, Y., Given, K. S., Dickson, E. L., **Owens, G. P.**, Macklin, W. B., **Bennett, J. L.** (2019). Concentration-dependent effects of CSF1R inhibitors on oligodendrocyte progenitor cells ex vivo and in vivo. *Exp Neurol*, 318, 32–41.