

Lyme Scientists

Those who have published literature on the immune suppressing effects of OspA

- AE Medvedev
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Medvedev+AE+and+tlr2>
- Barthold
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Barthold+and+borrelia>
- Baumgarth
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Baumgarth+and+borrelia>
- Benach: Borrelia wreck your brain:
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Benach+and+borrelia>
- Cadavid: Borrelia wreck your brain:
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Cadavid+and+borrelia+and+brain>
- Dattwyler, et al (SUNY-SB)
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Dattwyler+and+borrelia+and+nk+cells> (unresponsive)
 - http://www.actionlyme.org/DATTWYLER_NK_SUPPRESSION.htm
- Duray, Paul
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Duray+and+borrelia>
- Duray, talking about EBV transformed cells in the CSF of chronic Lyme victims:
 - <http://www.actionlyme.org/Duray.htm>
- Duray, talking about immature immune cells in the CSF of chronic Lyme victims:
 - http://actionlyme.org/IDSA_CLINIPATH_DURAY.htm
- Gary Wormser on how the OspA vaccines in dogs didn't work and caused immunosuppression:
 - <http://www.ncbi.nlm.nih.gov/pubmed/10865170>
- Harding, CV
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Harding+CV+and+tlr2>

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- Hotchkiss, HS
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Hotchkiss+RS%5BAuthor%5D>
- Latovon on how OspA vaccination caused the same disease as chronic Lyme:
 - <http://www.ncbi.nlm.nih.gov/pubmed/15363064>
- Marks on how LYMERix caused the same disease as chronic Lyme:
 - <http://www.ncbi.nlm.nih.gov/pubmed/21673416>
- Martin and Marques (The NIH's "Lyme and MS" Division find that OspA-ish lipoproteins shed by borrelia all the time cause humoral immunosuppression with brain inflammation)
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Martin+and+Marques+and+tlr2>
- Nahid et al on OspA (or borrelia-shedding OspA on blebs) causing immunosuppression
 - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3552145/>
- NIH patent, explaining how Lyme causes LYMERix-disease:
 - "The invention relates to novel antigens associated with *Borrelia burgdorferi* which are [exported \(or shed\) in vivo](#) and whose detection is a means of diagnosing Lyme disease. The antigens are extracellular membrane vesicles and other bioproducts including the major extracellular protein antigen. Another object of the invention is to provide antibodies, monoclonal and/or polyclonal, labeled and/or unlabeled, that are raised against the antigens. A further object of the invention is to provide a method of diagnosing Lyme disease by detecting the antigens in a biological sample taken from a host using the antibodies in conventional immunoassay formats. Another object of the invention is to provide kits, for the diagnosis of Lyme disease, comprising the antibodies and ancillary reagents. The advantage of the antibodies used in the invention is that they react with the antigens from geographically diverse strains of *Borrelia burgdorferi*, but do not react with antigens from related *Borrelia* spirochetes."
 - [United States Patent: Method for detection of *Borrelia burgdorferi* antigens](#)



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- Philipp, Mario on how Lyme and OspA causes immunosuppression with brain inflammation:
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Philipp+M+and++tlr2>
- Radolf, Justin on what else has OspA-sorta in it:
 - <http://www.jbc.org/content/274/47/33419.long>
- Radolf saying OspA causes immunosuppression:
 - <http://www.jimmunol.org/cgi/content/full/167/2/910>
- Redmond, HP
 - <http://www.ncbi.nlm.nih.gov/pubmed/?term=Redmond+HP+and+tlr2>
- Wormser, Gary reports global immunosuppression from OspA/Borrelia
 - <https://crymedisease.wordpress.com/2016/03/20/gary-wormser-reports-global-immunosuppression-from-ospaborrelia/>