

## HeteroBlock® Bibliography

1. Barro, et al., (2021), Quantification of the neurofilament light chain protein by single molecule array (Simoa) assay. In: Teunissen C.E., Zetterberg H. (eds) Cerebrospinal Fluid Biomarkers. *Neuromethods*, vol 168. Humana, New York, NY. (doi: 10.1007/978-1-0716-1319-1\_13)
2. Ioannides, et al., (2021), Correlations between macrophage/microglial activation marker sTREM-2 and measures of T-cell activation, neuroaxonal damage and disease severity in multiple sclerosis. *Multiple Sclerosis Journal-Experimental, Translational and Clinical*, April 2021. (doi: 10.1177/20552173211019772)
3. Vasileiadis, et al., (2021), Adipocytokines in untreated newly diagnosed rheumatoid arthritis: association with circulating chemokines and markers of inflammation. *Biomolecules*, 11:325. (doi: 10.3390/biom11020325)
4. Ayyappan et al., (2020), Heightened levels of antimicrobial response factors in patients with rheumatoid arthritis. *Frontiers in Immunology*, 11:427. (doi: 10.3389/fimmu.2020.00427)
5. Connell et al., (2020), Immune activation correlates with and predicts CXCR4 co-receptor tropism switch in HIV-1 infection. *Nature, Scientific Reports*, 10:15866. (doi: 10.1038/s41598-020-71699-z)
6. Maia et al., (2020), Plasma neurofilament light chain: an early biomarker for hereditary ATTR amyloid polyneuropathy. *Amyloid*, 27:2, 97-102. (doi: 10.1080/13506129.2019.1708716)
7. Shan, et al., (2020), Increased intra-articular granzyme M may trigger local IFN-λ1/IL-29 response in rheumatoid arthritis. *Clinical and Experimental Rheumatology*, 38:220-226.
8. Wilke et al., (2020), Neurofilaments in spinocerebellar ataxia type 3: blood biomarkers at the preataxic and ataxic stage in humans and mice. *EMBO Molecular Medicine*, 12: e11803. (doi: 10.15252/emmm.201911803)
9. Lassere, Baker, & Gu, (2019) Predicting TNFAlpha inhibitor treatment response using serum cytokines in patients with rheumatoid arthritis. *Annals of the Rheumatic Diseases*, 78:313. (doi: 10.1136/annrheumdis-2019-eular.6445)
10. Mariotti et al., (2019) The long non-coding RNA NRIR drives IFN-response in monocytes: implication for systemic sclerosis. *Frontiers in Immunology*, 10:100. (doi: 10.3389/fimmu.2019.00100)
11. Preische et al., (2019), Serum neurofilament dynamics predicts neurodegeneration and clinical progression in presymptomatic Alzheimer's disease. *Nature Medicine*, 25: 277-283. (doi: 10.1038/s41591-018-0304-3)
12. Wienke et al., (2019) Galectin-9 and CXCL10 as Biomarkers for Disease Activity in Juvenile Dermatomyositis: a longitudinal cohort study and multicohort validation. *Arthritis & Rheumatology*, 71:8, 1377-1390. (doi: 10.1002/art.40881)
13. Wilke et al., (2019) Correlations between serum and CSF pNfH levels in ALS, FTD and controls: a comparison of three analytical approaches. *Clinical Chemistry and Laboratory Medicine (CCLM)*, 57:10, 1556-1564. (doi: 10.1515/cclm-2019-0015)
14. Abdelsalam et al., (2018), Serum level of endothelial cell-specific molecule-1 (ESM-1) as a new potential biomarker for rheumatoid arthritis disease activity. *The Open Rheumatology Journal*, 12: 189-196. (doi: 10.2174/1874312901812010189)
15. Andersen et al., (2018), Association between IL-6 production in synovial explants from rheumatoid arthritis patients and clinical and imaging response to biologic treatment: A pilot study. *PLOS ONE*, 13 (5): e0197001. (doi: 10.1371/journal.pone.0197001)
16. Eikendal et al., (2018), Circulating levels of P-selectin and E-selectin relate to cardiovascular magnetic resonance-derived aortic characteristics in young adults from the general population, a cross-sectional study. *Journal of Cardiovascular Magnetic Resonance*, 20:54. (doi: 10.1186/s12968-018-0473-8)
17. Hughes-Austin et al., (2018), Plasma adiponectin levels are associated with circulating inflammatory cytokines in autoantibody positive first-degree relatives of rheumatoid arthritis patients. *PLOS ONE*, 13(6): e0199578. (doi: 10.1371/journal.pone.0199578)

## HeteroBlock® Bibliography

18. Lee et al., (2018), Kaempferol targeting on the fibroblast growth factor receptor 3-ribosomal S6 kinase 2 signaling axis prevents the development of rheumatoid arthritis. *Cell Death & Disease*, 9:401. (doi: 10.1038/s41419-018-0433-0)
19. Rose, II et al., (2018), Interleukin-33 Contributes Toward Loss of Tolerance by Promoting B-Cell-Activating Factor of the Tumor-Necrosis-Factor Family (BAFF)-Dependent Autoantibody Production. *Frontiers in Immunology*, 9:2871. (doi: 10.3389/fimmu.2018.02871)
20. Scholman et al., (2018), Effect of anticoagulants on 162 circulating immune related proteins in healthy subjects. *Cytokine*, 106: 114-124. (doi: 10.1016/j.cyto.2017.10.021)
21. van de Groep et al., (2018), Effect of cytomegalovirus reactivation on the time course of systemic host response biomarkers in previously immunocompetent critically ill patients with sepsis: a matched cohort study. *Critical Care*, 22:348. (doi: 10.1186/s13054-018-2261-0)
22. Disanto et al., (2017), Serum Neurofilament Light: A Biomarker of Neuronal Damage in Multiple Sclerosis. *Annals of Neurology*, 81 (6): 857-870. (doi: 10.1002/ana.24954)
23. Kuuliala et al., (2017), Impaired Akt Phosphorylation in Monocytes of Patients with Rheumatoid Arthritis. *Scandinavian Journal of Immunology*, 85: 155-161. (doi: 10.1111/sji.12521)
24. Makoveichuk, Ruge, Nilsson, Södergren, & Olivecrona (2017), High Concentrations of Angiopoietin-Like Protein 4 Detected in Serum from Patients with Rheumatoid Arthritis Can Be Explained by Non-Specific Antibody Reactivity. *PLoS ONE*, 12 (1): e0168922. (doi: 10.1371/journal.pone.0168922)
25. Park et al., (2017), IK acts as an immunoregulator of inflammatory arthritis by suppressing TH17 cell differentiation and macrophage activation. *Nature, Scientific Reports*, 7:40280. (doi 10.1038/srep40280)
26. Ripken et al., (2017), Intraileal casein infusion increases plasma concentrations of amino acids in humans: A randomized cross over trial. *Clinical Nutrition*, 36: 143-149. (doi: 10.1016/j.clnu.2016.01.012)
27. Shoda et al., (2017), Increased serum concentrations of IL-1 beta, IL-21, and Th17 cells in overweight patients with rheumatoid arthritis. *Arthritis Research & Therapy*, 19:111. (doi: 10.1186/s13075-017-1308-y)
28. Olsson et al., (2017), Multiplex cytokine analyses in patients with rheumatoid arthritis require use of agents blocking heterophilic antibody activity. *Scandinavian Journal of Rheumatology*, (doi: 10.3109/03009742.2016.1161070)
29. Anderson et al., (2016), IL-6-driven STAT signalling in circulating CD4+ lymphocytes is a marker for early anticitrullinated peptide antibody-negative rheumatoid arthritis. *Annals of the Rheumatic Diseases*, 75: 466-473. (doi:10.1136/annrheumdis-2014-205850)
30. Daan et al., (2016), Biomarker Profiles in Women with PCOS and PCOS Offspring; A Pilot Study. *PLoS ONE*, 11 (11): e0165033. (doi: 10.1371/journal.pone.0165033)
31. Jones et al., (2016), Profiling drugs for rheumatoid arthritis that inhibit synovial fibroblast activation. *Nature Chemical Biology*, 13:38-45. (doi: 10.1038/NCHEMIO.2211)
32. Nagafuchi et al., (2016), Immunophenotyping of rheumatoid arthritis reveals a linkage between HLA-DRB1 genotype, CXCR4 expression on memory CD4+ T cells, and disease activity. *Scientific Reports*, *Nature*, 6: 29338. (doi: 10.1038/srep29338)
33. Piepenbrink et al., (2016), Humoral Dysregulation Associated with Increased Systemic Inflammation among Injection Heroin Users. *PLoS ONE*, 11(7): e0158641. (doi: 10.1371/journal.pone.0158641)
34. Ripken et al., (2017), Intraileal casein infusion increases plasma concentrations of amino acids in humans: A randomized cross over trial. *Clinical Nutrition*, 36: 143-149. (doi: 10.1016/j.clnu.2016.01.012)
35. Dahlstrom et al., (2015), HPV serum antibodies as predictors of survival and disease progression in patients with HPV-positive squamous cell carcinoma of the oropharynx. *Clinical Cancer Research*, 21 (12): 2861-2869. (doi:

## HeteroBlock® Bibliography

- 10.1158/1078-0432.CCR-14-3323)
36. Eikendal et al., (2015), Relation Between Circulating Inflammatory Chemokines and Vascular Characteristics in Healthy, Young Children. *Journal of the American Heart Association*, 4: e002346. (doi: 10.1161/JAHA.115.002346)
  37. Kuuliala et al., (2015), Constitutive STAT3 Phosphorylation in Circulating CD4+ T Lymphocytes Associates with Disease Activity and Treatment Response in Recent-Onset Rheumatoid Arthritis. *PLOS ONE*. 10(9): e0137385. (doi: 10.1371/journal.pone.0137385)
  38. Andersen et al., (2014), Synovial explant inflammatory mediator production corresponds to rheumatoid arthritis imaging hallmarks: a cross-sectional study. *Arthritis Research & Therapy*, 16 (3), R107. (doi:10.1186/ar4557)
  39. Burska, Boissinot, & Ponchel (2014), Cytokines as Biomarkers in Rheumatoid Arthritis. *Mediators of Inflammation*, 2014, 545493. (doi:10.1155/2014/545493)
  40. Jones et al., (2014), Serum C-X-C motif chemokine 13 is elevated in early and established rheumatoid arthritis and correlates with rheumatoid factor levels. *Arthritis Research & Therapy*, 16 (2), R103. (doi:10.1186/ar4552)
  41. Kuller et al., (2014), Rheumatoid Arthritis in the Women's Health Initiative: Methods and Baseline Evaluation. *American Journal of Epidemiology*, 179 (7): 917-926. (doi:10.1093/aje/kwu003)
  42. Centola et al., (2013), Development of a Multi-Biomarker Disease Activity Test for Rheumatoid Arthritis. *PLoS ONE* 8 (4): e60635. (doi:10.1371/journal.pone.0060635)
  43. Hughes-Austin et al., (2013), Multiple cytokines and chemokines are associated with rheumatoid arthritis-related autoimmunity in first-degree relatives without rheumatoid arthritis: Studies of the Aetiology of Rheumatoid Arthritis (SERA). *Annals of the Rheumatic Diseases*, 72 (6) 901-907. (doi: 10.1136/annrheumdis-2012-201505)
  44. Bellatin et al., (2012), Production of Autoantibodies against Citrullinated Antigens/Peptides by Human B Cells. *The Journal of Immunology*, 188 (7) 3542-3550. (doi: 10.4049/jimmunol.1100577)
  45. Law et al., (2012), T-cell autoreactivity to citrullinated autoantigenic peptides in rheumatoid arthritis patients carrying HLA-DRB1 shared epitope alleles. *Arthritis Research & Therapy*, 14 (3), R118. (doi:10.1186/ar3848)
  46. Matthey, Nixon, & Dawes (2012), Association of circulating levels of MMP-8 with mortality from respiratory disease in patients with rheumatoid arthritis. *Arthritis Research & Therapy*, 14 (5), R204. (doi:10.1186/ar4042)
  47. Mikuls et al., (2012), Porphyromonas gingivalis and disease-related autoantibodies in individuals at increased risk of rheumatoid arthritis. *Arthritis and Rheumatology*, 64 (11): 3522-3530. (doi:10.1002/art.34595)
  48. Chandra et al., (2011), Novel multiplex technology for diagnostic characterization of rheumatoid arthritis. *Arthritis Research & Therapy*, 13 (3), R102. (doi:10.1186/ar3383)
  49. Song et al., (2011), Plasma carboxypeptidase B downregulates inflammatory responses in autoimmune arthritis. *The Journal of Clinical Investigation*, 121 (9), 3517–3527. (doi:10.1172/JCI46387)
  50. Todd et al., (2011), Erroneous augmentation of multiplex assay measurements in patients with rheumatoid arthritis due to heterophilic binding by serum rheumatoid factor. *Arthritis & Rheumatism*, 63 (4): 894–903. (doi: 10.1002/art.30213)
  51. Deane et al., (2010), The number of elevated cytokines/chemokines in pre-clinical seropositive rheumatoid arthritis predicts time to diagnosis in an age-dependent manner. *Arthritis & Rheumatology*, 62(11): 3131-3172. (doi: 10.1002/art.27638)
  52. Hueber et al., (2009), Blood autoantibody and cytokine profiles predict response to anti-tumor necrosis factor therapy in rheumatoid arthritis. *Arthritis Research & Therapy*, 11 (3), R76. (doi:10.1186/ar2706)
  53. Sharif et al., (2009), Thrombin-activatable carboxypeptidase B cleavage of osteopontin regulates neutrophil survival and synoviocyte binding in rheumatoid arthritis. *Arthritis and Rheumatology*, 60 (10). (doi: 10.1002/art.24814)
  54. Hueber et al., (2007), Proteomic analysis of secreted proteins in early rheumatoid arthritis: anti-citrulline



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## HeteroBlock® Bibliography

- autoreactivity is associated with up regulation of proinflammatory cytokines. *Annals of the Rheumatic Diseases*, 66 (6), 712–719. (doi:10.1136/ard.2006.054924)
55. Shah, Hackshaw, & Caligiuri (1998), A role for IL-15 in rheumatoid arthritis? *Nature Medicine*, 4 (6): 643.