

Alexey A Belogurov Jr

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,168

citations

18

h-index

32

g-index

88

ext. papers

1,396

ext. citations

4.1

avg, IF

3.75

L-index

| # | Paper | IF | Citations |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 82 | Deconvolution of the MBP-Bri2 Interaction by a Yeast Two Hybrid System and Synergy of the AlphaFold2 and High Ambiguity Driven Protein-Protein Docking. <i>Crystals</i> , 2022 , 12, 197 | 2.3 | 1 |
| 81 | Comprehensive Atlas of the Myelin Basic Protein Interaction Landscape. <i>Biomolecules</i> , 2021 , 11, | 5.9 | 3 |
| 80 | Protein PGLYRP1/Tag7 Peptides Decrease the Proinflammatory Response in Human Blood Cells and Mouse Model of Diffuse Alveolar Damage of Lung through Blockage of the TREM-1 and TNFR1 Receptors. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 1 |
| 79 | Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. <i>Pathogens</i> , 2021 , 10, | 4.5 | 3 |
| 78 | A New Precision Minimally Invasive Method of Glial Scar Simulation in the Rat Spinal Cord Using Cryoapplication. <i>Frontiers in Surgery</i> , 2021 , 8, 607551 | 2.3 | 0 |
| 77 | Control of Genome through Variative Nature of Histone-Modifying Ubiquitin Ligases. <i>Biochemistry (Moscow)</i> , 2021 , 86, S71-S95 | 2.9 | 0 |
| 76 | Peculiarities of the Presentation of the Encephalitogenic MBP Peptide by HLA-DR Complexes Providing Protection and Predisposition to Multiple Sclerosis. <i>Acta Naturae</i> , 2021 , 13, 127-133 | 2.1 | 0 |
| 75 | In-depth characterization of ubiquitin turnover in mammalian cells by fluorescence tracking. <i>Cell Chemical Biology</i> , 2021 , 28, 1192-1205.e9 | 8.2 | 2 |
| 74 | At the Cutting Edge against Cancer: A Perspective on Immunoproteasome and Immune Checkpoints Modulation as a Potential Therapeutic Intervention. <i>Cancers</i> , 2021 , 13, | 6.6 | 5 |
| 73 | Autoantibodies from SLE patients induce programmed cell death in murine fibroblast cells through interaction with TNFR1 receptor. <i>Scientific Reports</i> , 2020 , 10, 11144 | 4.9 | 3 |
| 72 | A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020 , 6, eaaz9861 | 14.3 | 7 |
| 71 | Cytokine profile as a marker of cell damage and immune dysfunction after spinal cord injury. <i>Acta Naturae</i> , 2020 , 12, 92-101 | 2.1 | 0 |
| 70 | Stochastics of Degradation: The Autophagic-Lysosomal System of the Cell. <i>Acta Naturae</i> , 2020 , 12, 18-32.1 | | 3 |
| 69 | Liquid drop of DNA libraries reveals total genome information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27300-27306 | 11.5 | 1 |
| 68 | Polyamines Counteract Carbonate-Driven Proteasome Stalling in Alkaline Conditions. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 1 |
| 67 | Multiscale computation delivers organophosphorus reactivity and stereoselectivity to immunoglobulin scavengers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22841-22848 | 11.5 | 3 |
| 66 | Exhaustive Search of the Receptor Ligands by the CyCLOPS (Cytometry Cell-Labeling Operable Phage Screening) Technique. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 2 |

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| 65 | Topological Features of Histone H2A Monoubiquitination. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 493, 193-197 | 0.8 | |
| 64 | High-Throughput Platform for B-Cell Screening Based on Fluorescent Phage-Display Technology. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 446-451 | 0.8 | 1 |
| 63 | Loading Rate of Exogenous and Autoantigenic Determinants on Major Histocompatibility Complex Class II Mediates Resistance to Multiple Sclerosis. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 485, 115-118 | 0.8 | 1 |
| 62 | Proteasome: a Nanomachinery of Creative Destruction. <i>Biochemistry (Moscow)</i> , 2019 , 84, S159-S192 | 2.9 | 15 |
| 61 | Probing Surface Membrane Receptors Using Engineered Bacteriophage Bioconjugates. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1500-1506 | 6.3 | 3 |
| 60 | Charge-mediated proteasome targeting. <i>FASEB Journal</i> , 2019 , 33, 6852-6866 | 0.9 | 12 |
| 59 | Protective Allele for Multiple Sclerosis HLA-DRB1*01:01 Provides Kinetic Discrimination of Myelin and Exogenous Antigenic Peptides. <i>Frontiers in Immunology</i> , 2019 , 10, 3088 | 8.4 | 7 |
| 58 | Differential Diagnostics of Active Progressing Multiple Sclerosis Using a Fluorescent Biomarker with Resonance Energy Transfer. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 329-334 | 0.8 | 0 |
| 57 | Salicylic acid influences the protease activity and posttranslation modifications of the secreted peptides in the moss <i>Physcomitrella patens</i> . <i>Journal of Peptide Science</i> , 2019 , 25, e3138 | 2.1 | 7 |
| 56 | QM/MM Description of Newly Selected Catalytic Bioscavengers Against Organophosphorus Compounds Revealed Reactivation Stimulus Mediated by Histidine Residue in the Acyl-Binding Loop. <i>Frontiers in Pharmacology</i> , 2018 , 9, 834 | 5.6 | 6 |
| 55 | Diagnostics of autoimmune neurodegeneration using fluorescent probing. <i>Scientific Reports</i> , 2018 , 8, 12679 | 4.9 | 0 |
| 54 | Autocrine-based selection of ligands for personalized CAR-T therapy of lymphoma. <i>Science Advances</i> , 2018 , 4, eaau4580 | 14.3 | 13 |
| 53 | Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2550-2555 | 11.5 | 124 |
| 52 | Design of Chemical Conjugate for Targeted Therapy of Multiple Sclerosis Based of Constant Fragment of Human Antibody Heavy Chain and Peptoid Analog of Autoantigen MOG. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 777-780 | 0.8 | |
| 51 | Analysis of Immunogenicity of Intracellular CTAR Fragments of Epstein-Barr Virus Latent Phase Protein LMP1. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 766-771 | 0.8 | |
| 50 | Evolution of catalytic centers of antibodies by virtual screening of broad repertoire of mutants using supercomputer. <i>Doklady Biochemistry and Biophysics</i> , 2017 , 475, 245-249 | 0.8 | 1 |
| 49 | Combinatorial Screening of Peptides, Specific Ligands of Death Receptor DR5. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 381-384 | 0.8 | 1 |
| 48 | Peptides Against Autoimmune Neurodegeneration. <i>Current Medicinal Chemistry</i> , 2017 , 24, 1761-1771 | 4.3 | 4 |

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| 47 | The Transcriptome of Type I Murine Astrocytes under Interferon-Gamma Exposure and Remyelination Stimulus. <i>Molecules</i> , 2017 , 22, | 4.8 | 16 |
| 46 | Exposure to the Epstein-Barr Viral Antigen Latent Membrane Protein 1 Induces Myelin-Reactive Antibodies. <i>Frontiers in Immunology</i> , 2017 , 8, 777 | 8.4 | 11 |
| 45 | Divergent Immunomodulation Capacity of Individual Myelin Peptides-Components of Liposomal Therapeutic against Multiple Sclerosis. <i>Frontiers in Immunology</i> , 2017 , 8, 1335 | 8.4 | 6 |
| 44 | Death Receptors: New Opportunities in Cancer Therapy. <i>Acta Naturae</i> , 2017 , 9, 55-63 | 2.1 | 13 |
| 43 | Deimination of the myelin basic protein decelerates its proteasome-mediated metabolism. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 469, 277-80 | 0.8 | 4 |
| 42 | mRNA expression profile of mouse oligodendrocytes in inflammatory conditions. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 469, 264-8 | 0.8 | 1 |
| 41 | Robotic QM/MM-driven maturation of antibody combining sites. <i>Science Advances</i> , 2016 , 2, e1501695 | 14.3 | 10 |
| 40 | CD206-Targeted Liposomal Myelin Basic Protein Peptides in Patients with Multiple Sclerosis Resistant to First-Line Disease-Modifying Therapies: A First-in-Human, Proof-of-Concept Dose-Escalation Study. <i>Neurotherapeutics</i> , 2016 , 13, 895-904 | 6.4 | 22 |
| 39 | Heterodimer HLA-DM Fused with Constant Fragment of the Heavy Chain of the Human Immunoglobulin Accelerates Influenza Hemagglutinin HA306-318 Loading to HLA-DR1. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 92-5 | 0.8 | 1 |
| 38 | Peptidyl Aldehyde Specifically Interacts with Immunosubunit β i Proteasome: In Vitro and In Vivo Effects. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 69-71 | 0.8 | 1 |
| 37 | Modified siRNA effectively silence inducible immunoproteasome subunits in NSO cells. <i>Biochimie</i> , 2016 , 125, 75-82 | 4.6 | 3 |
| 36 | Administration of Myelin Basic Protein Peptides Encapsulated in Mannosylated Liposomes Normalizes Level of Serum TNF- α and IL-2 and Chemoattractants CCL2 and CCL4 in Multiple Sclerosis Patients. <i>Mediators of Inflammation</i> , 2016 , 2016, 2847232 | 4.3 | 18 |
| 35 | Myelin-Reactive Monoclonal Antibodies from Multiple Sclerosis Patients Cross-React with Nucleoproteins in HEp-2 Lysate. <i>BioNanoScience</i> , 2016 , 6, 322-324 | 3.4 | 1 |
| 34 | Mediators and Biomarkers of Inflammation in Meningitis: Cytokine and Peptidome Profiling of Cerebrospinal Fluid. <i>Biochemistry (Moscow)</i> , 2016 , 81, 1293-1302 | 2.9 | 9 |
| 33 | Noggin4 is a long-range inhibitor of Wnt8 signalling that regulates head development in <i>Xenopus laevis</i> . <i>Scientific Reports</i> , 2016 , 6, 23049 | 4.9 | 21 |
| 32 | Expression of DNA-Encoded Antidote to Organophosphorus Toxins in the Methylotrophic Yeast <i>Pichia Pastoris</i> . <i>Applied Biochemistry and Microbiology</i> , 2016 , 52, 162-169 | 1.1 | 2 |
| 31 | Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. <i>Biotechnology Letters</i> , 2016 , 38, 1173-80 | 3 | 3 |
| 30 | The Pathogenesis of the Demyelinating Form of Guillain-Barre Syndrome (GBS): Proteo-peptidomic and Immunological Profiling of Physiological Fluids. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2366-78 | 7.6 | 24 |

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| 29 | A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. <i>Biochimie</i> , 2015 , 118, 51-9 | 4.6 | 23 |
| 28 | Chemical Polysialylation of Recombinant Human Proteins. <i>Methods in Molecular Biology</i> , 2015 , 1321, 389-404 | 1.4 | 9 |
| 27 | Clinical and experimental studies of multiple sclerosis in Russia: experience of the leading national research centers. <i>Degenerative Neurological and Neuromuscular Disease</i> , 2015 , 5, 83-90 | 5.4 | |
| 26 | Ubiquitin-independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. <i>FASEB Journal</i> , 2015 , 29, 1901-13 | 0.9 | 32 |
| 25 | Specific Depletion of Myelin-Reactive B Cells via BCR-Targeting. <i>Acta Naturae</i> , 2015 , 7, 74-79 | 2.1 | 2 |
| 24 | Chemical Polysialylation and In Vivo Tetramerization Improve Pharmacokinetic Characteristics of Recombinant Human Butyrylcholinesterase-Based Bioscavengers. <i>Acta Naturae</i> , 2015 , 7, 136-141 | 2.1 | 11 |
| 23 | Heavy-light chain interrelations of MS-associated immunoglobulins probed by deep sequencing and rational variation. <i>Molecular Immunology</i> , 2014 , 62, 305-14 | 4.3 | 16 |
| 22 | Multiple sclerosis autoantigen myelin basic protein escapes control by ubiquitination during proteasomal degradation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17758-66 | 5.4 | 23 |
| 21 | Glatiramer acetate and nanny proteins restrict access of the multiple sclerosis autoantigen myelin basic protein to the 26S proteasome. <i>BioMed Research International</i> , 2014 , 2014, 926394 | 3 | 8 |
| 20 | Role of H17 light-chain constant-domain switch in the structure and functionality of A17 reactibody. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 708-19 | | 15 |
| 19 | Immunoproteasome enhances intracellular proteolysis of myelin basic protein. <i>Doklady Biochemistry and Biophysics</i> , 2013 , 453, 300-3 | 0.8 | 16 |
| 18 | Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1243-8 | 11.5 | 69 |
| 17 | Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013 , 203, 196-201 | 5 | 20 |
| 16 | Liposome-encapsulated peptides protect against experimental allergic encephalitis. <i>FASEB Journal</i> , 2013 , 27, 222-31 | 0.9 | 38 |
| 15 | Antibody-antigen pair probed by combinatorial approach and rational design: bringing together structural insights, directed evolution, and novel functionality. <i>FEBS Letters</i> , 2012 , 586, 2966-73 | 3.8 | 6 |
| 14 | Extracellular HspBP1 inhibits formation of a cytotoxic Tag7-Hsp70 complex in vitro and in human serum. <i>Biochimie</i> , 2012 , 94, 203-6 | 4.6 | 4 |
| 13 | Creation of catalytic antibodies metabolizing organophosphate compounds. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1139-46 | 2.9 | 8 |
| 12 | Catalytic Antibodies 2012 , 1735-1776 | | 4 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 11 | Expression of catalytic antibodies in eukaryotic systems. <i>Molecular Biology</i> , 2011 , 45, 74-81 | 1.2 | 7 |
| 10 | Combinatorial antibody library from multiple sclerosis patients reveals antibodies that cross-react with myelin basic protein and EBV antigen. <i>FASEB Journal</i> , 2011 , 25, 4211-21 | 0.9 | 54 |
| 9 | Reactibodies generated by kinetic selection couple chemical reactivity with favorable protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15954-9 | 11.5 | 39 |
| 8 | Design of targeted B cell killing agents. <i>PLoS ONE</i> , 2011 , 6, e20991 | 3.7 | 34 |
| 7 | Catalytic antibodies: balancing between Dr. Jekyll and Mr. Hyde. <i>BioEssays</i> , 2009 , 31, 1161-71 | 4.1 | 32 |
| 6 | Suppression of ongoing experimental allergic encephalomyelitis in DA rats by novel peptide drug, structural part of human myelin basic protein 46-62. <i>Autoimmunity</i> , 2009 , 42, 362-4 | 3 | 6 |
| 5 | Site-specific degradation of myelin basic protein by the proteasome. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 425, 68-72 | 0.8 | 4 |
| 4 | Recognition and degradation of myelin basic protein peptides by serum autoantibodies: novel biomarker for multiple sclerosis. <i>Journal of Immunology</i> , 2008 , 180, 1258-67 | 5.3 | 91 |
| 3 | Substrate specificity of catalytic autoantibodies in neurodegenerative processes. <i>Doklady Biochemistry and Biophysics</i> , 2007 , 413, 61-4 | 0.8 | 7 |
| 2 | Catalytic activity of autoantibodies toward myelin basic protein correlates with the scores on the multiple sclerosis expanded disability status scale. <i>Immunology Letters</i> , 2006 , 103, 45-50 | 4.1 | 39 |
| 1 | Autoantibodies to myelin basic protein catalyze site-specific degradation of their antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 281-6 | 11.5 | 144 |