Vaclav Vetvicka

List of Publications by Year in descending order

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137	4,039	172457	155660
papers	citations	29 h-index	55 g-index

138	138	138	4903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cathepsin Dâ€"Many functions of one aspartic protease. Critical Reviews in Oncology/Hematology, 2008, 68, 12-28.	4.4	514
2	Therapeutic intervention with complement and Î²-glucan in cancer. Immunopharmacology, 1999, 42, 61-74.	2.0	238
3	Effects of marine Î²â^'1,3 glucan on immune reactions. International Immunopharmacology, 2004, 4, 721-730.	3.8	132
4	Regulation of apoptotic pathways during endometriosis: from the molecular basis to the future perspectives. Archives of Gynecology and Obstetrics, 2016, 294, 897-904.	1.7	127
5	Molecular Interactions of Î²-(1â†'3)-Glucans with Their Receptors. Molecules, 2015, 20, 9745-9766.	3.8	123
6	Beta Glucan: Supplement or Drug? From Laboratory to Clinical Trials. Molecules, 2019, 24, 1251.	3.8	106
7	Orally administered marine (1â†'3)-Î²-d-glucan Phycarine stimulates both humoral and cellular immunity. International Journal of Biological Macromolecules, 2007, 40, 291-298.	7.5	99
8	The effects of Î² - glucan on fish immunity. North American Journal of Medical Sciences, 2013, 5, 580.	1.7	92
9	Glucan-immunostimulant, adjuvant, potential drug. World Journal of Clinical Oncology, 2011, 2, 115.	2.3	88
10	Glucan-like synthetic oligosaccharides: iterative synthesis of linear oligo-Î²-(1,3)-glucans and immunostimulatory effects. Glycobiology, 2005, 15, 393-407.	2.5	76
11	Î²-glucans and cholesterol (Review). International Journal of Molecular Medicine, 2018, 41, 1799-1808.	4.0	73
12	Endometriosis and risk of ovarian cancer: what do we know?. Archives of Gynecology and Obstetrics, 2020, 301, 1-10.	1.7	71
13	Physiological effects of different types of Î²-glucan. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2007, 151, 225-231.	0.6	60
14	Development of Fish Immunity and the Role of Î²-Glucan in Immune Responses. Molecules, 2020, 25, 5378.	3.8	58
15	Effect of human procathepsin D on proliferation of human cell lines. Cancer Letters, 1994, 79, 131-135.	7.2	55
16	Î²â€glucan as a new tool in vaccine development. Scandinavian Journal of Immunology, 2020, 91, e12833.	2.7	54
17	Immunological Effects of Yeast- and Mushroom-DerivedÎ²-Glucans. Journal of Medicinal Food, 2008, 11, 615-622.	1.5	53
18	Atherosclerosis as autoimmune disease. Annals of Translational Medicine, 2018, 6, 116-116.	1.7	52

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19	Antiâ€human procathepsin D activation peptide antibodies inhibit breast cancer development. Breast Cancer Research and Treatment, 1999, 57, 261-269.	2.5	50
20	Analysis of the interaction of procathepsin D activation peptide with breast cancer cells. , 1997, 73, 403-409.		48
21	Immunological aspects of endometriosis: a review. Annals of Translational Medicine, 2015, 3, 153.	1.7	46
22	Immune-modulating activities of glucans extracted from Pleurotus ostreatus and Pleurotus eryngii. Journal of Functional Foods, 2019, 54, 81-91.	3.4	43
23	The Effects of Î²-Glucan on Pig Growth and Immunity. The Open Biochemistry Journal, 2014, 1, 89-93.	0.5	41
24	Î²(1-3)-D-glucan affects adipogenesis, wound healing and inflammation. Oriental Pharmacy and Experimental Medicine, 2011, 11, 169-175.	1.2	38
25	Effects of yeast-derived Î²-glucans on blood cholesterol and macrophage functionality. Journal of Immunotoxicology, 2009, 6, 30-35.	1.7	36
26	Anti-infectious and Anti-tumor Activities of Î²-glucans. Anticancer Research, 2020, 40, 3139-3145.	1.1	35
27	Procathepsin D in breast cancer: What do we know? Effects of ribozymes and other inhibitors. Cancer Gene Therapy, 2002, 9, 854-863.	4.6	34
28	Effect of procathepsin D and its activation peptide on prostate cancer cells. Cancer Letters, 1998, 129, 55-59.	7.2	33
29	Role of procathepsin D activation peptide in prostate cancer growth. Prostate, 2000, 44, 1-7.	2.3	33
30	Altered Immunity in Endometriosis: What Came First?. Immunological Investigations, 2018, 47, 569-582.	2.0	33
31	Effects of Medicinal Fungi-Derived Î²-Glucan on Tumor Progression. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.5	33
32	New oligo-Î²-(1,3)-glucan derivatives as immunostimulating agents. Bioorganic and Medicinal Chemistry, 2010, 18, 348-357.	3.0	31
33	Synthesis and Evaluation of Di- and Trimeric Hydroxylamine-Based Î²-(1â†'3)-Glucan Mimetics. Journal of the American Chemical Society, 2014, 136, 14852-14857.	13.7	30
34	Glucan and resveratrol complex - possible synergistic effects on immune system. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2007, 151, 41-46.	0.6	30
35	Immune enhancing effects of WB365, a novel combination of Ashwagandha (Withania somnifera) and Maitake (Grifola frondosa) extracts. North American Journal of Medical Sciences, 2011, 3, 320-324.	1.7	29
36	Glucan and Mannanâ€"Two Peas in a Pod. International Journal of Molecular Sciences, 2019, 20, 3189.	4.1	29

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37	Hypolipidemic Effects of Î²-Glucans, Mannans, and Fucoidans: Mechanism of Action and Their Prospects for Clinical Application. Molecules, 2020, 25, 1819.	3.8	29
38	Glucans and Cancer: Comparison of Commercially Available Î²-glucans â€“ Part IV. Anticancer Research, 2018, 38, 1327-1333.	1.1	29
39	Effects of curcumin on Helicobacter pylori infection. Annals of Translational Medicine, 2016, 4, 479-479.	1.7	28
40	Biological properties of andrographolide, an active ingredient of Andrographis Paniculata: a narrative review. Annals of Translational Medicine, 2021, 9, 1186-1186.	1.7	28
41	Glucan supplementation enhances the immune response against an influenza challenge in mice. Annals of Translational Medicine, 2015, 3, 22.	1.7	28
42	Polymer microbeads in immunology. Biomaterials, 1987, 8, 341-345.	11.4	27
43	Role of enzymatically inactive procathepsin D in lung cancer. Anticancer Research, 2004, 24, 2739-43.	1.1	27
44	Glucan and Humic Acid: Synergistic Effects on the Immune System. Journal of Medicinal Food, 2010, 13, 863-869.	1.5	26
45	Clinical trials of yeast-derived Î²-(1,3) glucan in children: effects on innate immunity. Annals of Translational Medicine, 2014, 2, 15.	1.7	26
46	Depletion of procathepsin D gene expression by RNA interference â€“ A potential therapeutic target for breast cancer. Cancer Biology and Therapy, 2007, 6, 1081-1087.	3.4	24
47	Endometriosis and Cancer. Women's Health, 2014, 10, 591-597.	1.5	24
48	Placebo-driven clinical trials of yeast-derived Î²-(1-3) glucan in children with chronic respiratory problems. Annals of Translational Medicine, 2013, 1, 26.	1.7	24
49	Combination of glucan, resveratrol and vitamin C demonstrates strong anti-tumor potential. Anticancer Research, 2012, 32, 81-7.	1.1	24
50	Immune-enhancing effects of Maitake (Grifola frondosa) and Shiitake (Lentinula edodes) extracts. Annals of Translational Medicine, 2014, 2, 14.	1.7	23
51	Endometriosis and ovarian cancer. World Journal of Clinical Oncology, 2014, 5, 800.	2.3	23
52	Role of activation peptide of procathepsin D in proliferation and invasion of lung cancer cells. Anticancer Research, 2006, 26, 4163-70.	1.1	23
53	In vitro antigen-binding properties of coelomocytes of Eisenia foetida (Annelida). Immunology Letters, 1990, 26, 183-187.	2.5	22
54	Oligo-Î²-(1 â†' 3)-glucans: Impact of Thio-Bridges on Immunostimulating Activities and the Development of Cancer Stem Cells. Journal of Medicinal Chemistry, 2014, 57, 8280-8292.	6.4	22

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55	New 4-deoxy-(1â†'3)-Î²-d-glucan-based oligosaccharides and their immunostimulating potential. Carbohydrate Research, 2011, 346, 2213-2221.	2.3	21
56	Reversal of perfluorooctanesulfonate-induced immunotoxicity by a glucan-resveratrol-vitamin C combination. Oriental Pharmacy and Experimental Medicine, 2013, 13, 77-84.	1.2	21
57	Glucans as New Anticancer Agents. Anticancer Research, 2019, 39, 3373-3378.	1.1	21
58	Î²-Glucan successfully stimulated the immune system in different jawed vertebrate species. Comparative Immunology, Microbiology and Infectious Diseases, 2019, 62, 1-6.	1.6	21
59	Secretion of Cytokines in Breast Cancer Cells: The Molecular Mechanism of Procathepsin D Proliferative Effects. Journal of Interferon and Cytokine Research, 2007, 27, 191-200.	1.2	20
60	Procathepsin D secreted by HaCaT keratinocyte cells â€“ A novel regulator of keratinocyte growth. European Journal of Cell Biology, 2007, 86, 303-313.	3.6	20
61	Bioactive substances with anti-neoplastic efficacy from marine invertebrates:PoriferaandCoelenterata. World Journal of Clinical Oncology, 2011, 2, 355.	2.3	20
62	Biological Markers of Oxidative Stress in Cardiovascular Diseases: After so Many Studies, What do We Know?. Immunological Investigations, 2018, 47, 823-843.	2.0	20
63	Î²(1-3)(1-6)-D-glucans modulate immune status in pigs: potential importance for efficiency of commercial farming. Annals of Translational Medicine, 2014, 2, 16.	1.7	20
64	Human endothelial cell line from an angiosarcoma. In Vitro Cellular & Developmental Biology, 1993, 29, 199-202.	1.0	19
65	Enhancing effects of new biological response modifier Î²-1,3 glucan sulfate PS3 on immune reactions. Biomedicine and Pharmacotherapy, 2008, 62, 283-288.	5.6	19
66	Review: Î²-glucans as Effective Antibiotic Alternatives in Poultry. Molecules, 2021, 26, 3560.	3.8	19
67	Fucoidans Stimulate Immune Reaction and Suppress Cancer Growth. Anticancer Research, 2017, 37, 6041-6046.	1.1	19
68	Î²-glucan affects mucosal immunity in children with chronic respiratory problems under physical stress: clinical trials. Annals of Translational Medicine, 2015, 3, 52.	1.7	19
69	Î²(1-3)(1-6)-D-glucans Modulate Immune Status and Blood Glucose Levels in Dogs. British Journal of Pharmaceutical Research, 2014, 4, 981-991.	0.4	19
70	Combination Therapy with Glucan and Coenzyme Q10in Murine Experimental Autoimmune Disease and Cancer. Anticancer Research, 2018, 38, 3291-3297.	1.1	18
71	Procathepsin D as a Tumor Marker, Anti-Cancer Drug or Screening Agent. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 172-175.	1.7	18
72	Fungal Exocellular (1-6)-Î²-d-glucan: Carboxymethylation, Characterization, and Antioxidant Activity. International Journal of Molecular Sciences, 2019, 20, 2337.	4.1	17

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73	ANTI-STRESS ACTION OF SEVERAL ORALLY-GIVEN Î²-GLUCANS. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2010, 154, 235-238.	0.6	17
74	Effect of procathepsin D activation peptide on gene expression of breast cancer cells. Cancer Letters, 2006, 239, 46-54.	7.2	15
75	Effects of Glucan on Immunosuppressive Actions of Mercury. Journal of Medicinal Food, 2009, 12, 1098-1104.	1.5	15
76	Biological Properties of (1â€‰â†'â€‰3)-Î²-<scp>d</scp>-Glucan-Based Synthetic Oligosaccharides. Journal of Medicinal Food, 2011, 14, 369-376.	1.5	15
77	Glucanâ€“Resveratrolâ€“Vitamin C Combination Offers Protection against Toxic Agents. Toxins, 2012, 4, 1301-1308.	3.4	15
78	Lentinan Properties in Anticancer Therapy: A Review on the Last 12-Year Literature. American Journal of Immunology, 2017, 13, 50-61.	0.1	15
79	Synthesis and Evaluation of 1,5-Dithia-<scp>d</scp>-laminaribiose, Triose, and Tetraose as Truncated Î²-(1â†'3)-Glucan Mimetics. Journal of Organic Chemistry, 2018, 83, 14894-14904.	3.2	15
80	The Relative Abundance of Oxygen Alkyl-Related Groups in Aliphatic Domains Is Involved in the Main Pharmacological-Pleiotropic Effects of Humic Acids. Journal of Medicinal Food, 2013, 16, 625-632.	1.5	14
81	Humic Acid and Glucan: Protection Against Liver Injury Induced by Carbon Tetrachloride. Journal of Medicinal Food, 2015, 18, 572-577.	1.5	14
82	Natural immunomodulators and their stimulation of immune reaction: true or false?. Anticancer Research, 2014, 34, 2275-82.	1.1	14
83	Effects of the Czech Propolis on Sperm Mitochondrial Function. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-10.	1.2	13
84	Essential Oils from Thyme (Thymus vulgaris): Chemical Composition and Biological Effects in Mouse Model. Journal of Medicinal Food, 2016, 19, 1180-1187.	1.5	13
85	The Search for Biomarkers in Endometriosis: a Long and Windy Road. Reproductive Sciences, 2022, 29, 1667-1673.	2.5	13
86	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: comparison with parental cell line MDA-MB-231. Oncology Reports, 2008, 19, 1237-44.	2.6	13
87	Hepatocyte and immune cell crosstalk in non-alcoholic fatty liver disease. Expert Review of Gastroenterology and Hepatology, 2021, 15, 783-796.	3.0	12
88	Effects of Glucan and Vitamin D Supplementation on Obesity and Lipid Metabolism in Diabetic Retinopathy. The Open Biochemistry Journal, 2018, 12, 36-45.	0.5	12
89	Anti-Stress Action of an Orally-Given Combination of Resveratrol, Î²-Glucan, and Vitamin C. Molecules, 2014, 19, 13724-13734.	3.8	11
90	Synthesis and Evaluation of Oligomeric Thioether-Linked Carbacyclic Î²-(1â†'3)-Glucan Mimetics. Journal of Organic Chemistry, 2019, 84, 5554-5563.	3.2	11

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91	Immunity in cancer and atherosclerosis. Annals of Translational Medicine, 2019, 7, 204-204.	1.7	11
92	Addition of selenium improves immunomodulative effects of glucan. North American Journal of Medical Sciences, 2016, 8, 88.	1.7	11
93	Effects of Î²-glucan and Vitamin D Supplementation on Inflammatory Parameters in Patients with Diabetic Retinopathy. Journal of Dietary Supplements, 2019, 16, 369-378.	2.6	10
94	Sulfonated and Carboxymethylated Î²-Glucan Derivatives with Inhibitory Activity against Herpes and Dengue Viruses. International Journal of Molecular Sciences, 2021, 22, 11013.	4.1	10
95	Glucan Supplementation Has Strong Anti-melanoma Effects: Role of NK Cells. Anticancer Research, 2015, 35, 5287-92.	1.1	10
96	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: Comparison with parental cell line MDA-MB-231. Oncology Reports, 0, , .	2.6	9
97	Encapsulated Microparticles of (1â†'6)-Î²-d-Glucan Containing Extract of Baccharis dracunculifolia: Production and Characterization. Molecules, 2019, 24, 2099.	3.8	9
98	Cathepsin D: Autoantibody profiling as a diagnostic marker for cancers. World Journal of Clinical Oncology, 2013, 4, 1.	2.3	9
99	Procathepsin D and cytokines influence the proliferation of lung cancer cells. Anticancer Research, 2011, 31, 47-51.	1.1	9
100	Co-expression of different types of Fc receptors on murine peritoneal macrophages. European Journal of Immunology, 1986, 16, 901-905.	2.9	8
101	Procathepsin D expression correlates with invasive and metastatic phenotype of MDA-MB-231 derived cell lines. International Journal of Biological Macromolecules, 2007, 41, 204-209.	7.5	8
102	Trained Immunity as an Adaptive Branch of Innate Immunity. International Journal of Molecular Sciences, 2021, 22, 10684.	4.1	8
103	Comparison of Immunological Effects of Commercially Available Î²-Glucans: Part III. International Clinical Pathology Journal, 2016, 2, .	0.1	8
104	Procathepsin D and cancer: From molecular biology to clinical applications. World Journal of Clinical Oncology, 2010, 1, 35.	2.3	8
105	Spatial Distribution of Glucan Type and Content between Caps and Stalks in Pleurotus eryngii: Impact on the Anti-inflammatory Functionality. International Journal of Molecular Sciences, 2018, 19, 3371.	4.1	7
106	Lysosomotropic Features and Autophagy Modulators among Medical Drugs: Evaluation of Their Role in Pathologies. Molecules, 2020, 25, 5052.	3.8	7
107	Prophylactic effects of humic acid and #8211; glucan combination against experimental liver injury. Journal of Intercultural Ethnopharmacology, 2015, 4, 249.	0.9	7
108	Comparison of immunological effects of commercially available Î²-glucans. Applied Scientific Reports, 2014, 1, 2.	1.0	7

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109	Glucan-many faces of one molecule. Annals of Translational Medicine, 2014, 2, 11.	1.7	7
110	Endometriosis and gynaecological cancers: molecular insights behind aÂ complex machinery. Przeglad Menopauzalny, 2021, 20, 201-206.	1.3	7
111	Immunomodulating Effects Exerted by Glucans Extracted from the King Oyster Culinary-Medicinal Mushroom Pleurotus eryngii (Agaricomycetes) Grown in Substrates Containing Various Concentrations of Olive Mill Waste. International Journal of Medicinal Mushrooms, 2019, 21, 765-781.	1.5	6
112	Comparison of immunological properties of various bioactive combinations. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2012, 156, 218-222.	0.6	6
113	Evaluation of a special combination of glucan with organic selenium derivative in different murine tumor models. Anticancer Research, 2014, 34, 6939-44.	1.1	6
114	Phagocytic Activity of Peritoneal and Omental Macrophages of Athymic Nude Mice. Immunological Investigations, 1988, 17, 531-541.	2.0	5
115	Bioactive substances with anti-neoplastic efficacy from marine invertebrates:Bryozoa,Mollusca,EchinodermataandUrochordata. World Journal of Clinical Oncology, 2011, 2, 362.	2.3	5
116	Cathepsin D. , 2013, , 54-63.		5
117	Reconstruction of NK Cells During Complex Cancer Treatment. Zhong Liu Za Zhi, 2016, 4, 398-402.	0.3	5
118	Syntetic Oligosacharides â€“ Clinical Application in Cancer Therapy. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 720-724.	1.7	5
119	Omental dendritic cells: Ia expression and relation to macrophages. Apmis, 1990, 98, 1113-1122.	2.0	4
120	Jaroslav Rejnek 1929â€“1993. Developmental and Comparative Immunology, 1994, 18, 1.	2.3	4
121	Procathepsin D involvement in chemoresistance of cancer cells. North American Journal of Medical Sciences, 2012, 4, 174.	1.7	4
122	Concentration of NK cells after Î²-glucan and vitamin D supplementation in patients with diabetic retinopathy. Folia Microbiologica, 2020, 65, 755-761.	2.3	4
123	Yeast-Derived ? -Glucan Reduces Intestinal Injury in Rat Model of Necrotizing Enterocolitis. International Clinical Pathology Journal, 2015, 1, .	0.1	4
124	Effects of Î²-glucan on some environmental toxins: An overview. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 001-004.	0.6	4
125	Biological Actions of Î²-Glucan. , 2011, , 10-18.		4
126	Î²-GLUCAN-INDOMETHACIN COMBINATION PRODUCES NO LETHAL EFFECTS. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2009, 153, 111-116.	0.6	3

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127	Endometrial cancerâ€"is our knowledge changing?. Translational Cancer Research, 2020, 9, 7734-7745.	1.0	2
128	Î²-(1â†'3)-Glucan-mannitol conjugates: scope and amazing results. Annals of Translational Medicine, 2014, 2, 12.	1.7	2
129	Glucan and Its Role in Immunonutrition. , 2019, , 453-460.		1
130	Î²-Glucan â€" Is the Current Research Relevant?. International Clinical Pathology Journal, 2017, 4, .	0.1	1
131	Î²-Glucan Improves Conditions of Chronic Fatigue in Mice by Stimulation of Immunity. The Open Biochemistry Journal, 2020, 14, 1-8.	0.5	1
132	Cytokines affect procathepsin D-stimulated proliferation of breast cancer cells. Anticancer Research, 2002, 22, 913-9.	1.1	1
133	Delayed ejaculation in men with depressive disorders. Andrologia, 2022, , e14412.	2.1	1
134	New insights into procathepsin D in pathological and physiological conditions. North American Journal of Medical Sciences, 2011, 3, 222-226.	1.7	0
135	Evolutionary paradox of immunity. North American Journal of Medical Sciences, 2015, 7, 30.	1.7	0
136	Comparison of Immunological Properties of Various Bioactive Combinations - Part II. International Clinical Pathology Journal, 2016, 2, .	0.1	0
137	Effects of glucan on bone marrow. Annals of Translational Medicine, 2014, 2, 18.	1.7	0