

Algirdas J Jesaitis

List of Publications by Year in Descending Order

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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.

101 papers	3,997 citations	36 h-index	60 g-index
101 ext. papers	4,167 ext. citations	5.2 avg, IF	4.51 L-index

#	Paper	IF	Citations
101	Enhanced Immunoaffinity Purification of Human Neutrophil Flavocytochrome B for Structure Determination by Electron Microscopy. <i>Methods in Molecular Biology</i> , 2019 , 1982, 39-59	1.4	0
100	Formyl Met-Leu-Phe-Stimulated FPR1 Phosphorylation in Plate-Adherent Human Neutrophils: Enhanced Proteolysis but Lack of Inhibition by Platelet-Activating Factor. <i>Journal of Immunology Research</i> , 2018 , 2018, 3178970	4.5	0
99	Characterization of apple NADPH oxidase genes and their expression associated with oxidative stress in shoot culture in vitro. <i>Plant Cell, Tissue and Organ Culture</i> , 2016 , 124, 621-633	2.7	15
98	Human neutrophil formyl peptide receptor phosphorylation and the mucosal inflammatory response. <i>Journal of Leukocyte Biology</i> , 2015 , 97, 87-101	6.5	14
97	Affinity purification and reconstitution of human phagocyte flavocytochrome B for detection of conformational dynamics in the membrane. <i>Methods in Molecular Biology</i> , 2014 , 1124, 413-26	1.4	2
96	Identification of C-terminal phosphorylation sites of N-formyl peptide receptor-1 (FPR1) in human blood neutrophils. <i>Journal of Biological Chemistry</i> , 2013 , 288, 27042-27058	5.4	13
95	Anionic lipid-induced conformational changes in human phagocyte flavocytochrome b precede assembly and activation of the NADPH oxidase complex. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 521, 24-31	4.1	12
94	Antigen-antibody interface properties: composition, residue interactions, and features of 53 non-redundant structures. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012 , 1824, 520-32	4	96
93	The leukocyte chemotactic receptor FPR1 is functionally expressed on human lens epithelial cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 40779-92	5.4	11
92	New insight into the Nox4 subcellular localization in HEK293 cells: first monoclonal antibodies against Nox4. <i>Biochimie</i> , 2011 , 93, 457-68	4.6	52
91	Invariant local conformation in p22phox p.Y72H polymorphisms suggested by mass spectral analysis of crosslinked human neutrophil flavocytochrome b. <i>Biochimie</i> , 2011 , 93, 1502-9	4.6	6
90	Characterization of superoxide overproduction by the D-Loop(Nox4)-Nox2 cytochrome b(558) in phagocytes-Differential sensitivity to calcium and phosphorylation events. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 78-90	3.8	26
89	Role of putative second transmembrane region of Nox2 protein in the structural stability and electron transfer of the phagocytic NADPH oxidase. <i>Journal of Biological Chemistry</i> , 2011 , 286, 28357-69	5.4	14
88	Agonist-dependent phosphorylation of the formyl peptide receptor is regulated by the membrane proximal region of the cytoplasmic tail. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 406-17	4.9	7
87	New p22-phox monoclonal antibodies: identification of a conformational probe for cytochrome b 558. <i>Journal of Innate Immunity</i> , 2009 , 1, 556-69	6.9	14
86	Single-step immunoaffinity purification and functional reconstitution of human phagocyte flavocytochrome b. <i>Journal of Immunological Methods</i> , 2008 , 329, 201-7	2.5	13
85	Mutational analysis reveals distinct features of the Nox4-p22 phox complex. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35273-82	5.4	78

84	Characterization of surface structure and p47phox SH3 domain-mediated conformational changes for human neutrophil flavocytochrome b. <i>Biochemistry</i> , 2007 , 46, 14291-304	3.2	11
83	C-terminal tail phosphorylation of N-formyl peptide receptor: differential recognition of two neutrophil chemoattractant receptors by monoclonal antibodies NFPR1 and NFPR2. <i>Journal of Immunology</i> , 2007 , 179, 2520-31	5.3	13
82	Formyl peptide receptor-1 activation enhances intestinal epithelial cell restitution through phosphatidylinositol 3-kinase-dependent activation of Rac1 and Cdc42. <i>Journal of Immunology</i> , 2007 , 179, 8112-21	5.3	93
81	Localization of hCAP-18 on the surface of chemoattractant-stimulated human granulocytes: analysis using two novel hCAP-18-specific monoclonal antibodies. <i>Journal of Leukocyte Biology</i> , 2007 , 82, 161-72	6.5	6
80	Reorganization of the human neutrophil plasma membrane is associated with functional priming: implications for neutrophil preparations. <i>Journal of Leukocyte Biology</i> , 2007 , 81, 672-85	6.5	13
79	Critical roles for p22phox in the structural maturation and subcellular targeting of Nox3. <i>Biochemical Journal</i> , 2007 , 403, 97-108	3.8	64
78	New insights into the membrane topology of the phagocyte NADPH oxidase: characterization of an anti-gp91-phox conformational monoclonal antibody. <i>Biochimie</i> , 2007 , 89, 1145-58	4.6	21
77	Cloning, sequence analysis and confirmation of derived gene sequences for three epitope-mapped monoclonal antibodies against human phagocyte flavocytochrome b. <i>Molecular Immunology</i> , 2007 , 44, 625-37	4.3	5
76	Immunoaffinity purification of human phagocyte flavocytochrome b and analysis of conformational dynamics. <i>Methods in Molecular Biology</i> , 2007 , 412, 429-37	1.4	4
75	Analysis of human phagocyte flavocytochrome b(558) by mass spectrometry. <i>Journal of Biological Chemistry</i> , 2006 , 281, 37045-56	5.4	18
74	Deletion mutagenesis of p22phox subunit of flavocytochrome b558: identification of regions critical for gp91phox maturation and NADPH oxidase activity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 30336-46	5.4	60
73	Filtering Epitope Alignments to Improve Protein Surface Prediction. <i>Lecture Notes in Computer Science</i> , 2006 , 648-657	0.9	2
72	Evaluation of two anti-gp91phox antibodies as immunoprobes for Nox family proteins: mAb 54.1 recognizes recombinant full-length Nox2, Nox3 and the C-terminal domains of Nox1-4 and cross-reacts with GRP 58. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1752, 186-96	4	15
71	Unusual polyclonal anti-gp91 peptide antibody interactions with X-linked chronic granulomatous disease-derived human neutrophils are not from compensatory expression of Nox proteins 1, 3, or 4. <i>European Journal of Haematology</i> , 2005 , 74, 241-9	3.8	2
70	Monoclonal antibody CL5 recognizes the amino terminal domain of human phagocyte flavocytochrome b558 large subunit, gp91phox. <i>European Journal of Haematology</i> , 2005 , 74, 337-47	3.8	5
69	Site-specific inhibitors of NADPH oxidase activity and structural probes of flavocytochrome b: characterization of six monoclonal antibodies to the p22phox subunit. <i>Journal of Immunology</i> , 2004 , 173, 7349-57	5.3	54
68	Preparation of secretory vesicle-free plasma membranes by isopycnic sucrose gradient fractionation of neutrophils purified by the gelatin method. <i>Cytotechnology</i> , 2004 , 46, 109-22	2.2	6
67	Anionic amphiphile and phospholipid-induced conformational changes in human neutrophil flavocytochrome b observed by fluorescence resonance energy transfer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1663, 201-13	3.8	21

66	Constraints on the conformation of the cytoplasmic face of dark-adapted and light-excited rhodopsin inferred from antirhodopsin antibody imprints. <i>Protein Science</i> , 2003 , 12, 2453-75	6.3	11
65	Experimental evidence for lack of homodimerization of the G protein-coupled human N-formyl peptide receptor. <i>Journal of Immunology</i> , 2003 , 171, 3187-93	5.3	22
64	Mutations of F110 and C126 of the formyl peptide receptor interfere with G-protein coupling and chemotaxis. <i>Journal of Periodontology</i> , 2003 , 74, 475-84	4.6	22
63	Single-step immunoaffinity purification and characterization of dodecylmaltoside-solubilized human neutrophil flavocytochrome b. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1612, 65-75	3.8	14
62	Priming-induced localization of G(ialpha2) in high density membrane microdomains. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 301, 862-72	3.4	13
61	Functional epitope on human neutrophil flavocytochrome b558. <i>Journal of Immunology</i> , 2003 , 170, 6082-93	5.3	35
60	Compromised host defense on Pseudomonas aeruginosa biofilms: characterization of neutrophil and biofilm interactions. <i>Journal of Immunology</i> , 2003 , 171, 4329-39	5.3	290
59	A new method for mapping discontinuous antibody epitopes to reveal structural features of proteins. <i>Journal of Computational Biology</i> , 2003 , 10, 555-67	1.7	35
58	Cascade blue as a donor for resonance energy transfer studies of heme-containing proteins. <i>Analytical Biochemistry</i> , 2002 , 302, 19-27	3.1	7
57	Structural changes are induced in human neutrophil cytochrome b by NADPH oxidase activators, LDS, SDS, and arachidonate: intermolecular resonance energy transfer between trisulfopyrenyl-wheat germ agglutinin and cytochrome b(558). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002 , 1567, 221-31	3.8	38
56	A carbohydrate neoepitope that is up-regulated on human mononuclear leucocytes by neuraminidase treatment or by cellular activation. <i>Immunology</i> , 2001 , 104, 185-97	7.8	3
55	Phage display epitope mapping of human neutrophil flavocytochrome b558. Identification of two juxtaposed extracellular domains. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2053-61	5.4	53
54	Identification of a spectrally stable proteolytic fragment of human neutrophil flavocytochrome b composed of the NH2-terminal regions of gp91(phox) and p22(phox). <i>Journal of Biological Chemistry</i> , 2001 , 276, 38852-61	5.4	14
53	Phosphatidic acid and diacylglycerol directly activate NADPH oxidase by interacting with enzyme components. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3090-7	5.4	95
52	A single amino acid substitution (N297A) in the conserved NPXXY sequence of the human N-formyl peptide receptor results in inhibition of desensitization and endocytosis, and a dose-dependent shift in p42/44 mitogen-activated protein kinase activation and chemotaxis. <i>Biochemical Journal</i> , 2000 , 352, 399	3.8	12
51	Epitope identification for human neutrophil flavocytochrome b monoclonals 48 and 449. <i>European Journal of Haematology</i> , 2000 , 65, 407-13	3.8	17
50	Phosphorylation of p22phox is mediated by phospholipase D-dependent and -independent mechanisms. Correlation of NADPH oxidase activity and p22phox phosphorylation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 28406-12	5.4	72
49	Characterization of the binding site on the formyl peptide receptor using three receptor mutants and analogs of Met-Leu-Phe and Met-Met-Trp-Leu-Leu. <i>Journal of Biological Chemistry</i> , 2000 , 275, 39012-574	5.4	47

48	Processing and maturation of flavocytochrome b558 include incorporation of heme as a prerequisite for heterodimer assembly. <i>Journal of Biological Chemistry</i> , 2000 , 275, 13986-93	5.4	130
47	Actin surface structure revealed by antibody imprints: evaluation of phage-display analysis of anti-actin antibodies. <i>Protein Science</i> , 1999 , 8, 760-70	6.3	24
46	Cell-Specific Peptide Binding by Human Neutrophils. <i>Blood</i> , 1999 , 93, 1738-1748	2.2	74
45	The N-Formyl Peptide Receptor 1999 , 215-245		10
44	Identification of putative sites of interaction between the human formyl peptide receptor and G protein. <i>Journal of Biological Chemistry</i> , 1999 , 274, 27934-42	5.4	32
43	Extraction method for analysis of detergent-solubilized bacteriorhodopsin and hydrophobic peptides by electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 1999 , 269, 1-9	3.1	41
42	Cell-Specific Peptide Binding by Human Neutrophils. <i>Blood</i> , 1999 , 93, 1738-1748	2.2	
41	Organization and mobility of CD11b/CD18 and targeting of superoxide on the surface of degranulated human neutrophils. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 357, 164-72	4.1	16
40	Antibody imprint of a membrane protein surface. Phagocyte flavocytochrome b. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24847-52	5.4	45
39	Identification of a ligand binding site in the human neutrophil formyl peptide receptor using a site-specific fluorescent photoaffinity label and mass spectrometry. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10428-35	5.4	58
38	Interaction of human neutrophil flavocytochrome b with cytosolic proteins: transferred-NOESY NMR studies of a gp91phox C-terminal peptide bound to p47phox. <i>Biochemical Journal</i> , 1997 , 325 (Pt 1), 249-57	3.8	22
37	Identification of transmembrane tryptic peptides of rhodopsin using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Protein Science</i> , 1997 , 6, 816-24	6.3	25
36	Filamentous phage display of oligopeptide libraries. <i>Analytical Biochemistry</i> , 1996 , 238, 1-13	3.1	107
35	Different subcellular localization of cytochrome b and the dormant NADPH-oxidase in neutrophils and macrophages: effect on the production of reactive oxygen species during phagocytosis. <i>Cellular Immunology</i> , 1995 , 161, 61-71	4.4	68
34	Purification of human neutrophil NADPH oxidase cytochrome b-558 and association with Rap 1A. <i>Methods in Enzymology</i> , 1995 , 255, 476-87	1.7	19
33	Topological mapping of neutrophil cytochrome b epitopes with phage-display libraries. <i>Journal of Biological Chemistry</i> , 1995 , 270, 16974-80	5.4	144
32	Extensive contact between Gi2 and N-formyl peptide receptor of human neutrophils: mapping of binding sites using receptor-mimetic peptides. <i>Biochemistry</i> , 1995 , 34, 6720-8	3.2	36
31	A domain of p47phox that interacts with human neutrophil flavocytochrome b558. <i>Journal of Biological Chemistry</i> , 1995 , 270, 26246-51	5.4	86

30	Immunocytochemical detection of lipid peroxidation in phagosomes of human neutrophils: correlation with expression of flavocytochrome b. <i>Journal of Leukocyte Biology</i> , 1995 , 57, 415-21	6.5	21
29	Neutrophil chemoattractant receptors and the membrane skeleton. <i>BioEssays</i> , 1994 , 16, 193-8	4.1	55
28	The interaction of N-formyl peptide chemoattractant receptors with the membrane skeleton is energy-dependent. <i>Cellular Signalling</i> , 1994 , 6, 943-7	4.9	6
27	Physical coupling of N-formyl peptide chemoattractant receptors to G protein is unaffected by desensitization. <i>Biochemical Pharmacology</i> , 1994 , 48, 1297-300	6	7
26	Characterization of complex formation between Gi2 and octyl glucoside solubilized neutrophil N-formyl peptide chemoattractant receptor by sedimentation velocity. <i>BBA - Proteins and Proteomics</i> , 1994 , 1209, 69-76		6
25	Remodeling of the plasma membrane after stimulation of neutrophils with f-Met-Leu-Phe and dihydrocytochalasin B: identification of membrane subdomains containing NADPH oxidase activity. <i>Journal of Leukocyte Biology</i> , 1994 , 55, 685-94	6.5	26
24	Cytoskeletal regulation of chemotactic receptors: molecular complexation of N-formyl peptide receptors with G proteins and actin. <i>European Journal of Haematology</i> , 1993 , 51, 288-93	3.8	48
23	Reconstitution of recombinant N-formyl chemotactic peptide receptor with G protein. <i>Journal of Leukocyte Biology</i> , 1993 , 53, 470-4	6.5	18
22	A carboxyl-terminal tail peptide of neutrophil chemotactic receptor disrupts its physical complex with G protein. <i>Journal of Leukocyte Biology</i> , 1993 , 54, 572-7	6.5	25
21	N-Formyl Peptide Receptor StructureFunction Relationships 1990 , 83-112		8
20	Association of a Ras-related protein with cytochrome b of human neutrophils. <i>Nature</i> , 1989 , 342, 198-200	0.4	221
19	Identification of a human neutrophil protein of Mr 24 000 that binds N-formyl peptides: co-sedimentation with specific granules. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989 , 991, 123-33	4.3	38
18	Reconstitution and characterization of the human neutrophil N-formyl peptide receptor and GTP binding proteins in phospholipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 982, 31-40	3.8	17
17	The lateral organization of components of the membrane skeleton and superoxide generation in the plasma membrane of stimulated human neutrophils. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 987, 83-94	3.8	74
16	The quaternary structure of the plasma membrane b-type cytochrome of human granulocytes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 932, 71-83	4.6	56
15	The glycoprotein encoded by the X-linked chronic granulomatous disease locus is a component of the neutrophil cytochrome b complex. <i>Nature</i> , 1987 , 327, 717-20	5.4	333
14	A high-yield, high-purity elutriation method for preparing human granulocytes demonstrating enhanced experimental lifetimes. <i>Journal of Leukocyte Biology</i> , 1987 , 42, 43-50	6.5	35
13	Photoaffinity labelling of N-formyl peptide receptors 1987 , 33, 333-48		7

12	Preparation and properties of an improved photoaffinity ligand for the N-formyl peptide receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1986 , 882, 271-80	4	36
11	Membrane-cytoskeleton interactions and the regulation of chemotactic peptide-induced activation of human granulocytes: the effects of dihydrocytochalasin B. <i>Journal of Cellular Biochemistry</i> , 1985 , 27, 241-53	4.7	71
10	Phospholipase activities of the P388D1 macrophage-like cell line. <i>Archives of Biochemistry and Biophysics</i> , 1985 , 238, 247-58	4.1	60
9	Evidence for N-formyl chemotactic peptide-stimulated GTPase activity in human neutrophil homogenates. <i>FEBS Letters</i> , 1984 , 166, 165-9	3.8	48
8	The neutrophil N-formyl peptide receptor: dynamics of ligand-receptor interactions and their relationship to cellular responses. <i>Contemporary Topics in Immunobiology</i> , 1984 , 14, 29-82		23
7	Leukocyte Chemotaxis 1984 , 43-75		2
6	The fate of the N-formyl-chemotactic peptide receptor in stimulated human granulocytes: subcellular fractionation studies. <i>Journal of Cellular Biochemistry</i> , 1982 , 20, 177-91	4.7	40
5	Ligand/receptor internalization: a spectroscopic analysis and a comparison of ligand binding, cellular response, and internalization by human neutrophils. <i>Journal of Cellular Biochemistry</i> , 1982 , 20, 193-202	4.7	32
4	Photoaffinity labeling of the N-formyl peptide receptor of human polymorphonuclear leukocytes. <i>Journal of Cellular Biochemistry</i> , 1982 , 20, 203-14	4.7	25
3	In vitro binding of riboflavin to subcellular particles from maize coleoptiles and Cucurbita hypocotyls. <i>Planta</i> , 1980 , 147, 312-9	4.7	25
2	Fluorescence labeling of the human erythrocyte anion transport system. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1979 , 553, 66-83	3.8	12
1	Characterization of a Membrane Fraction Containing a b-type Cytochrome. <i>Plant Physiology</i> , 1977 , 59, 941-7	6.6	99