Algirdas J Jesaitis

List of Publications by Citations

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	The glycoprotein encoded by the X-linked chronic granulomatous disease locus is a component of the neutrophil cytochrome b complex. *Nature*, **1987**, 327, 717-20	50.4	333
100	Compromised host defense on Pseudomonas aeruginosa biofilms: characterization of neutrophil and biofilm interactions. *Journal of Immunology*, **2003**, 171, 4329-39	5.3	290
99	Association of a Ras-related protein with cytochrome b of human neutrophils. *Nature*, **1989**, 342, 198-200	50.4	221
98	Topological mapping of neutrophil cytochrome b epitopes with phage-display libraries. *Journal of Biological Chemistry*, **1995**, 270, 16974-80	5.4	144
97	Processing and maturation of flavocytochrome b558 include incorporation of heme as a prerequisite for heterodimer assembly. *Journal of Biological Chemistry*, **2000**, 275, 13986-93	5.4	130
96	Filamentous phage display of oligopeptide libraries. *Analytical Biochemistry*, **1996**, 238, 1-13	3.1	107
95	Characterization of a Membrane Fraction Containing a b-type Cytochrome. *Plant Physiology*, **1977**, 59, 941-7	6.6	99
94	Antigen-antibody interface properties: composition, residue interactions, and features of 53 non-redundant structures. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2012**, 1824, 520-32	4	96
93	Phosphatidic acid and diacylglycerol directly activate NADPH oxidase by interacting with enzyme components. *Journal of Biological Chemistry*, **2001**, 276, 3090-7	5.4	95
92	Formyl peptide receptor-1 activation enhances intestinal epithelial cell restitution through phosphatidylinositol 3-kinase-dependent activation of Rac1 and Cdc42. *Journal of Immunology*, **2007**, 179, 8112-21	5.3	93
91	A domain of p47phox that interacts with human neutrophil flavocytochrome b558. *Journal of Biological Chemistry*, **1995**, 270, 26246-51	5.4	86
90	Mutational analysis reveals distinct features of the Nox4-p22 phox complex. *Journal of Biological Chemistry*, **2008**, 283, 35273-82	5.4	78
89	Cell-Specific Peptide Binding by Human Neutrophils. *Blood*, **1999**, 93, 1738-1748	2.2	74
88	The lateral organization of components of the membrane skeleton and superoxide generation in the plasma membrane of stimulated human neutrophils. *Biochimica Et Biophysica Acta - Biomembranes*, **1989**, 987, 83-94	3.8	74
87	Phosphorylation of p22phox is mediated by phospholipase D-dependent and -independent mechanisms. Correlation of NADPH oxidase activity and p22phox phosphorylation. *Journal of Biological Chemistry*, **2000**, 275, 28406-12	5.4	72
86	Membrane-cytoskeleton interactions and the regulation of chemotactic peptide-induced activation of human granulocytes: the effects of dihydrocytochalasin B. *Journal of Cellular Biochemistry*, **1985**, 27, 241-53	4.7	71
85	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. *Cellular Immunology*, **1995**, 161, 61-71	4.4	68

84	Critical roles for p22phox in the structural maturation and subcellular targeting of Nox3. *Biochemical Journal*, **2007**, 403, 97-108	3.8	64
83	Deletion mutagenesis of p22phox subunit of flavocytochrome b558: identification of regions critical for gp91phox maturation and NADPH oxidase activity. *Journal of Biological Chemistry*, **2006**, 281, 30336-46	5.4	60
82	Phospholipase activities of the P388D1 macrophage-like cell line. *Archives of Biochemistry and Biophysics*, **1985**, 238, 247-58	4.1	60
81	Identification of a ligand binding site in the human neutrophil formyl peptide receptor using a site-specific fluorescent photoaffinity label and mass spectrometry. *Journal of Biological Chemistry*, **1998**, 273, 10428-35	5.4	58
80	The quaternary structure of the plasma membrane b-type cytochrome of human granulocytes. *Biochimica Et Biophysica Acta - Bioenergetics*, **1988**, 932, 71-83	4.6	56
79	Neutrophil chemoattractant receptors and the membrane skeleton. *BioEssays*, **1994**, 16, 193-8	4.1	55
78	Site-specific inhibitors of NADPH oxidase activity and structural probes of flavocytochrome b: characterization of six monoclonal antibodies to the p22phox subunit. *Journal of Immunology*, **2004**, 173, 7349-57	5.3	54
77	Phage display epitope mapping of human neutrophil flavocytochrome b558. Identification of two juxtaposed extracellular domains. *Journal of Biological Chemistry*, **2001**, 276, 2053-61	5.4	53
76	New insight into the Nox4 subcellular localization in HEK293 cells: first monoclonal antibodies against Nox4. *Biochimie*, **2011**, 93, 457-68	4.6	52
75	Cytoskeletal regulation of chemotactic receptors: molecular complexation of N-formyl peptide receptors with G proteins and actin. *European Journal of Haematology*, **1993**, 51, 288-93	3.8	48
74	Evidence for N-formyl chemotactic peptide-stimulated GTPase activity in human neutrophil homogenates. *FEBS Letters*, **1984**, 166, 165-9	3.8	48
73	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. *Journal of Biological Chemistry*, **2000**, 275, 39012-7	5.4	47
72	Antibody imprint of a membrane protein surface. Phagocyte flavocytochrome b. *Journal of Biological Chemistry*, **1998**, 273, 24847-52	5.4	45
71	Extraction method for analysis of detergent-solubilized bacteriorhodopsin and hydrophobic peptides by electrospray ionization mass spectrometry. *Analytical Biochemistry*, **1999**, 269, 1-9	3.1	41
70	The fate of the N-formyl-chemotactic peptide receptor in stimulated human granulocytes: subcellular fractionation studies. *Journal of Cellular Biochemistry*, **1982**, 20, 177-91	4.7	40
69	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). *Biochimica Et Biophysica Acta - Biomembranes*, **2002**, 1567, 221-31	3.8	38
68	Identification of a human neutrophil protein of Mr 24 000 that binds N-formyl peptides: co-sedimentation with specific granules. *Biochimica Et Biophysica Acta - General Subjects*, **1989**, 991, 123-33	4	38
67	Extensive contact between Gi2 and N-formyl peptide receptor of human neutrophils: mapping of binding sites using receptor-mimetic peptides. *Biochemistry*, **1995**, 34, 6720-8	3.2	36

66	Preparation and properties of an improved photoaffinity ligand for the N-formyl peptide receptor. *Biochimica Et Biophysica Acta - General Subjects*, **1986**, 882, 271-80	4	36
65	Functional epitope on human neutrophil flavocytochrome b558. *Journal of Immunology*, **2003**, 170, 6082-9	5.3	35
64	A new method for mapping discontinuous antibody epitopes to reveal structural features of proteins. *Journal of Computational Biology*, **2003**, 10, 555-67	1.7	35
63	A high-yield, high-purity elutriation method for preparing human granulocytes demonstrating enhanced experimental lifetimes. *Journal of Leukocyte Biology*, **1987**, 42, 43-50	6.5	35
62	Identification of putative sites of interaction between the human formyl peptide receptor and G protein. *Journal of Biological Chemistry*, **1999**, 274, 27934-42	5.4	32
61	Ligand/receptor internalization: a spectroscopic analysis and a comparison of ligand binding, cellular response, and internalization by human neutrophils. *Journal of Cellular Biochemistry*, **1982**, 20, 193-202	4.7	32
60	Characterization of superoxide overproduction by the D-Loop(Nox4)-Nox2 cytochrome b(558) in phagocytes-Differential sensitivity to calcium and phosphorylation events. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 78-90	3.8	26
59	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. *Journal of Leukocyte Biology*, **1994**, 55, 685-94	6.5	26
58	Identification of transmembrane tryptic peptides of rhodopsin using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. *Protein Science*, **1997**, 6, 816-24	6.3	25
57	A carboxyl-terminal tail peptide of neutrophil chemotactic receptor disrupts its physical complex with G protein. *Journal of Leukocyte Biology*, **1993**, 54, 572-7	6.5	25
56	In vitro binding of riboflavin to subcellular particles from maize coleoptiles and Cucurbita hypocotyls. *Planta*, **1980**, 147, 312-9	4.7	25
55	Photoaffinity labeling of the N-formyl peptide receptor of human polymorphonuclear leukocytes. *Journal of Cellular Biochemistry*, **1982**, 20, 203-14	4.7	25
54	Actin surface structure revealed by antibody imprints: evaluation of phage-display analysis of anti-actin antibodies. *Protein Science*, **1999**, 8, 760-70	6.3	24
53	The neutrophil N-formyl peptide receptor: dynamics of ligand-receptor interactions and their relationship to cellular responses. *Contemporary Topics in Immunobiology*, **1984**, 14, 29-82		23
52	Interaction of human neutrophil flavocytochrome b with cytosolic proteins: transferred-NOESY NMR studies of a gp91phox C-terminal peptide bound to p47phox. *Biochemical Journal*, **1997**, 325 (Pt 1), 249-57	3.8	22
51	Experimental evidence for lack of homodimerization of the G protein-coupled human N-formyl peptide receptor. *Journal of Immunology*, **2003**, 171, 3187-93	5.3	22
50	Mutations of F110 and C126 of the formyl peptide receptor interfere with G-protein coupling and chemotaxis. *Journal of Periodontology*, **2003**, 74, 475-84	4.6	22
49	New insights into the membrane topology of the phagocyte NADPH oxidase: characterization of an anti-gp91-phox conformational monoclonal antibody. *Biochimie*, **2007**, 89, 1145-58	4.6	21

48	Anionic amphiphile and phospholipid-induced conformational changes in human neutrophil flavocytochrome b observed by fluorescence resonance energy transfer. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1663, 201-13	3.8	21
47	Immunocytochemical detection of lipid peroxidation in phagosomes of human neutrophils: correlation with expression of flavocytochrome b. *Journal of Leukocyte Biology*, **1995**, 57, 415-21	6.5	21
46	Purification of human neutrophil NADPH oxidase cytochrome b-558 and association with Rap 1A. *Methods in Enzymology*, **1995**, 255, 476-87	1.7	19
45	Analysis of human phagocyte flavocytochrome b(558) by mass spectrometry. *Journal of Biological Chemistry*, **2006**, 281, 37045-56	5.4	18
44	Reconstitution of recombinant N-formyl chemotactic peptide receptor with G protein. *Journal of Leukocyte Biology*, **1993**, 53, 470-4	6.5	18
43	Epitope identification for human neutrophil flavocytochrome b monoclonals 48 and 449. *European Journal of Haematology*, **2000**, 65, 407-13	3.8	17
42	Reconstitution and characterization of the human neutrophil N-formyl peptide receptor and GTP binding proteins in phospholipid vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1989**, 982, 31-40	3.8	17
41	Organization and mobility of CD11b/CD18 and targeting of superoxide on the surface of degranulated human neutrophils. *Archives of Biochemistry and Biophysics*, **1998**, 357, 164-72	4.1	16
40	Characterization of apple NADPH oxidase genes and their expression associated with oxidative stress in shoot culture in vitro. *Plant Cell, Tissue and Organ Culture*, **2016**, 124, 621-633	2.7	15
39	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. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2005**, 1752, 186-96	4	15
38	Human neutrophil formyl peptide receptor phosphorylation and the mucosal inflammatory response. *Journal of Leukocyte Biology*, **2015**, 97, 87-101	6.5	14
37	Role of putative second transmembrane region of Nox2 protein in the structural stability and electron transfer of the phagocytic NADPH oxidase. *Journal of Biological Chemistry*, **2011**, 286, 28357-69	5.4	14
36	New p22-phox monoclonal antibodies: identification of a conformational probe for cytochrome b 558. *Journal of Innate Immunity*, **2009**, 1, 556-69	6.9	14
35	Single-step immunoaffinity purification and characterization of dodecylmaltoside-solubilized human neutrophil flavocytochrome b. *Biochimica Et Biophysica Acta - Biomembranes*, **2003**, 1612, 65-75	3.8	14
34	Identification of a spectrally stable proteolytic fragment of human neutrophil flavocytochrome b composed of the NH2-terminal regions of gp91(phox) and p22(phox). *Journal of Biological Chemistry*, **2001**, 276, 38852-61	5.4	14
33	Identification of C-terminal phosphorylation sites of N-formyl peptide receptor-1 (FPR1) in human blood neutrophils. *Journal of Biological Chemistry*, **2013**, 288, 27042-27058	5.4	13
32	Single-step immunoaffinity purification and functional reconstitution of human phagocyte flavocytochrome b. *Journal of Immunological Methods*, **2008**, 329, 201-7	2.5	13
31	C-terminal tail phosphorylation of N-formyl peptide receptor: differential recognition of two neutrophil chemoattractant receptors by monoclonal antibodies NFPR1 and NFPR2. *Journal of Immunology*, **2007**, 179, 2520-31	5.3	13

30	Reorganization of the human neutrophil plasma membrane is associated with functional priming: implications for neutrophil preparations. *Journal of Leukocyte Biology*, **2007**, 81, 672-85	6.5	13
29	Priming-induced localization of G(ialpha2) in high density membrane microdomains. *Biochemical and Biophysical Research Communications*, **2003**, 301, 862-72	3.4	13
28	Anionic lipid-induced conformational changes in human phagocyte flavocytochrome b precede assembly and activation of the NADPH oxidase complex. *Archives of Biochemistry and Biophysics*, **2012**, 521, 24-31	4.1	12
27	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. *Biochemical Journal*, **2000**, 352, 399	3.8	12
26	Fluorescence labeling of the human erythrocyte anion transport system. *Biochimica Et Biophysica Acta - Biomembranes*, **1979**, 553, 66-83	3.8	12
25	The leukocyte chemotactic receptor FPR1 is functionally expressed on human lens epithelial cells. *Journal of Biological Chemistry*, **2012**, 287, 40779-92	5.4	11
24	Constraints on the conformation of the cytoplasmic face of dark-adapted and light-excited rhodopsin inferred from antirhodopsin antibody imprints. *Protein Science*, **2003**, 12, 2453-75	6.3	11
23	Characterization of surface structure and p47phox SH3 domain-mediated conformational changes for human neutrophil flavocytochrome b. *Biochemistry*, **2007**, 46, 14291-304	3.2	11
22	The N-Formyl Peptide Receptor **1999**, 215-245		10
21	N-Formyl Peptide Receptor StructureFunction Relationships **1990**, 83-112		8
20	Agonist-dependent phosphorylation of the formyl peptide receptor is regulated by the membrane proximal region of the cytoplasmic tail. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2009**, 1793, 406-17	4.9	7
19	Cascade blue as a donor for resonance energy transfer studies of heme-containing proteins. *Analytical Biochemistry*, **2002**, 302, 19-27	3.1	7
18	Physical coupling of N-formyl peptide chemoattractant receptors to G protein is unaffected by desensitization. *Biochemical Pharmacology*, **1994**, 48, 1297-300	6	7
17	Photoaffinity labelling of N-formyl peptide receptors **1987**, 33, 333-48		7
16	Invariant local conformation in p22phox p.Y72H polymorphisms suggested by mass spectral analysis of crosslinked human neutrophil flavocytochrome b. *Biochimie*, **2011**, 93, 1502-9	4.6	6
15	Localization of hCAP-18 on the surface of chemoattractant-stimulated human granulocytes: analysis using two novel hCAP-18-specific monoclonal antibodies. *Journal of Leukocyte Biology*, **2007**, 82, 161-72	6.5	6
14	Preparation of secretory vesicle-free plasma membranes by isopycnic sucrose gradient fractionation of neutrophils purified by the gelatin method. *Cytotechnology*, **2004**, 46, 109-22	2.2	6
13	The interaction of N-formyl peptide chemoattractant receptors with the membrane skeleton is energy-dependent. *Cellular Signalling*, **1994**, 6, 943-7	4.9	6

12	Characterization of complex formation between Gi2 and octyl glucoside solubilized neutrophil N-formyl peptide chemoattractant receptor by sedimentation velocity. *BBA - Proteins and Proteomics*, **1994**, 1209, 69-76		6
11	Cloning, sequence analysis and confirmation of derived gene sequences for three epitope-mapped monoclonal antibodies against human phagocyte flavocytochrome b. *Molecular Immunology*, **2007**, 44, 625-37	4.3	5
10	Monoclonal antibody CL5 recognizes the amino terminal domain of human phagocyte flavocytochrome b558 large subunit, gp91phox. *European Journal of Haematology*, **2005**, 74, 337-47	3.8	5
9	Immunoaffinity purification of human phagocyte flavocytochrome b and analysis of conformational dynamics. *Methods in Molecular Biology*, **2007**, 412, 429-37	1.4	4
8	A carbohydrate neoepitope that is up-regulated on human mononuclear leucocytes by neuraminidase treatment or by cellular activation. *Immunology*, **2001**, 104, 185-97	7.8	3
7	Affinity purification and reconstitution of human phagocyte flavocytochrome B for detection of conformational dynamics in the membrane. *Methods in Molecular Biology*, **2014**, 1124, 413-26	1.4	2
6	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. *European Journal of Haematology*, **2005**, 74, 241-9	3.8	2
5	Leukocyte Chemotaxis **1984**, 43-75		2
4	Filtering Epitope Alignments to Improve Protein Surface Prediction. *Lecture Notes in Computer Science*, **2006**, 648-657	0.9	2
3	Enhanced Immunoaffinity Purification of Human Neutrophil Flavocytochrome B for Structure Determination by Electron Microscopy. *Methods in Molecular Biology*, **2019**, 1982, 39-59	1.4	0
2	Formyl Met-Leu-Phe-Stimulated FPR1 Phosphorylation in Plate-Adherent Human Neutrophils: Enhanced Proteolysis but Lack of Inhibition by Platelet-Activating Factor. *Journal of Immunology Research*, **2018**, 2018, 3178970	4.5	0
1	Cell-Specific Peptide Binding by Human Neutrophils. *Blood*, **1999**, 93, 1738-1748	2.2	