Dominique Legrand

List of Publications by Year
in descending order

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61 papers	4,876 citations	109264 35 h-index	133188 59 g-index
63 all docs	63 docs citations	63 times ranked	4535 citing authors

#	Article	IF	Citations
1	Human lactotransferrin: amino acid sequence and structural comparisons with other transferrins. FEBS Journal, 1984, 145, 659-676.	0.2	490
2	Lactoferrin. Cellular and Molecular Life Sciences, 2005, 62, 2549-59.	2.4	332
3	Lactoferrin: A Multifunctional Glycoprotein Involved in the Modulation of the Inflammatory Process. Clinical Chemistry and Laboratory Medicine, 1999, 37, 281-6.	1.4	295
4	Overview of Lactoferrin as a Natural Immune Modulator. Journal of Pediatrics, 2016, 173, S10-S15.	0.9	205
5	Lactoferrin Structure and Functions. , 2008, 606, 163-194.		200
6	Surface nucleolin participates in both the binding and endocytosis of lactoferrin in target cells. FEBS Journal, 2004, 271, 303-317.	0.2	188
7	Lactoferrin Inhibits the Endotoxin Interaction with CD14 by Competition with the Lipopolysaccharide-Binding Protein. Infection and Immunity, 1998, 66, 486-491.	1.0	163
8	TMEM165 Deficiency Causes a Congenital Disorder of Glycosylation. American Journal of Human Genetics, 2012, 91, 15-26.	2.6	162
9	Lactoferrin, a key molecule in immune and inflammatory processes¹This article is part of Special Issue entitled Lactoferrin and has undergone the Journalâ€™s usual peer review process.. Biochemistry and Cell Biology, 2012, 90, 252-268.	0.9	155
10	Expression of human lactotransferrin receptors in phytohemagglutinin-stimulated human peripheral blood lymphocytes. Isolation of the receptors by antiligand-affinity chromatography. FEBS Journal, 1989, 179, 481-487.	0.2	144
11	A critical review of the roles of host lactoferrin in immunity. BioMetals, 2010, 23, 365-376.	1.8	141
12	Human Lactoferrin Interacts with Soluble CD14 and Inhibits Expression of Endothelial Adhesion Molecules, E-Selectin and ICAM-1, Induced by the CD14-Lipopolysaccharide Complex. Infection and Immunity, 2000, 68, 6519-6525.	1.0	136
13	Newly characterized Golgi-localized family of proteins is involved in calcium and pH homeostasis in yeast and human cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6859-6864.	3.3	129
14	Lipomannans, But Not Lipoarabinomannans, Purified fromMycobacterium chelonaeandMycobacterium kansasiiInduce TNF-Î± and IL-8 Secretion by a CD14-Toll-Like Receptor 2-Dependent Mechanism. Journal of Immunology, 2003, 171, 2014-2023.	0.4	128
15	Conservation of Epidermal Growth Factor Receptor Function in the Human Parasitic Helminth Schistosoma mansoni. Journal of Biological Chemistry, 2004, 279, 37407-37414.	1.6	120
16	Lactoferrin and host defence: an overview of its immuno-modulating and anti-inflammatory properties. BioMetals, 2004, 17, 225-229.	1.8	112
17	Culture of mammalian cells on patterned superhydrophilic/superhydrophobic silicon nanowire arrays. Soft Matter, 2011, 7, 8642.	1.2	109
18	Structures of a legume lectin complexed with the human lactotransferrin N2 fragment, and with an isolated biantennary glycopeptide: role of the fucose moiety. Structure, 1994, 2, 209-219.	1.6	105

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19	Interactions of lactoferrin with cells involved in immune functionThis paper is one of a selection of papers published in this Special Issue, entitled 7th International Conference on Lactoferrin: Structure, Function, and Applications, and has undergone the Journal's usual peer review process.. Biochemistry and Cell Biology, 2006, 84, 282-290.	0.9	101
20	Lactoferrin Inhibits the Lipopolysaccharide-Induced Expression and Proteoglycan-Binding Ability of Interleukin-8 in Human Endothelial Cells. Infection and Immunity, 2002, 70, 1860-1866.	1.0	96
21	Lactotransferrin binding to its platelet receptor inhibits platelet aggregation. FEBS Journal, 1993, 213, 1205-1211.	0.2	88
22	The cell surface expressed nucleolin is a glycoprotein that triggers calcium entry into mammalian cells. Experimental Cell Research, 2009, 315, 357-369.	1.2	73
23	Spectroscopic Studies of GSK3Î² Phosphorylation of the Neuronal Tau Protein and Its Interaction with the N-terminal Domain of Apolipoprotein E. Journal of Biological Chemistry, 2010, 285, 33435-33444.	1.6	71
24	Production of Human Lactoferrin in Transgenic Tobacco Plants. Protein Expression and Purification, 1998, 13, 127-135.	0.6	65
25	The N-terminal Arg2, Arg3 and Arg4 of human lactoferrin interact with sulphated molecules but not with the receptor present on Jurkat human lymphoblastic T-cells. Biochemical Journal, 1997, 327, 841-846.	1.7	64
26	Molecular interactions between human lactotransferrin and the phytohemagglutinin-activated human lymphocyte lactotransferrin receptor lie in two loop-containing regions of the N-terminal domain I of human lactotransferrin. Biochemistry, 1992, 31, 9243-9251.	1.2	62
27	Lactoferrin inhibits the binding of lipopolysaccharides toL-selectin and subsequent production of reactive oxygen species by neutrophils. FEBS Letters, 2000, 469, 5-8.	1.3	57
28	The N-terminal domain I of human lactotransferrin binds specifically to phytohemagglutinin-stimulated peripheral blood human lymphocyte receptors. FEBS Letters, 1989, 255, 201-204.	1.3	55
29	Glycosylation disorders of membrane trafficking. Glycoconjugate Journal, 2013, 30, 23-31.	1.4	53
30	Characterization and localization of an iron-binding 18-kDa glycopeptide isolated from the N-terminal half of humanlactotransferrin. BBA - Proteins and Proteomics, 1984, 787, 90-96.	2.1	52
31	Characterization of Human Lactoferrin Produced in the Baculovirus Expression System. Protein Expression and Purification, 1997, 9, 203-210.	0.6	52
32	Nucleolin Undergoes Partial N- and O-Glycosylations in the Extranuclear Cell Compartmentâ€. Biochemistry, 2005, 44, 5804-5815.	1.2	52
33	Porins OmpC and PhoE of Escherichia coli as Specific Cell-surface Targets of Human Lactoferrin. Journal of Biological Chemistry, 1999, 274, 16107-16114.	1.6	50
34	Mycobacterial Lipomannan Induces Matrix Metalloproteinase-9 Expression in Human Macrophagic Cells through a Toll-Like Receptor 1 (TLR1)/TLR2- and CD14-Dependent Mechanism. Infection and Immunity, 2005, 73, 7064-7068.	1.0	50
35	Impact of disease-causing mutations on TMEM165 subcellular localization, a recently identified protein involved in CDG-II. Human Molecular Genetics, 2013, 22, 2914-2928.	1.4	39
36	The binding of lactoferrin to glycosaminoglycans on enterocyte-like HT29-18-C1 cells is mediated through basic residues located in the N-terminus. Biochimica Et Biophysica Acta - General Subjects, 2001, 1568, 197-204.	1.1	38

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37	Structure and spatial conformation of the iron-binding sites of transferrins. Biochimie, 1988, 70, 1185-1195.	1.3	35
38	Hepatitis C Virus NS5B and Host Cyclophilin A Share a Common Binding Site on NS5A. Journal of Biological Chemistry, 2012, 287, 44249-44260.	1.6	35
39	TMEM165 deficiencies in Congenital Disorders of Glycosylation type II (CDG-II): Clues and evidences for roles of the protein in Golgi functions and ion homeostasis. Tissue and Cell, 2017, 49, 150-156.	1.0	34
40	Differential effects of lobe A and lobe B of the Conserved Oligomeric Golgi complex on the stability of Î²1,4-galactosyltransferase 1 and Î±2,6-sialyltransferase 1. Glycobiology, 2011, 21, 864-876.	1.3	33
41	Structural determination of two N-linked glycans isolated from recombinant human lactoferrin expressed in BHK cells. FEBS Letters, 1995, 365, 57-60.	1.3	31
42	Biometals and glycosylation in humans: Congenital disorders of glycosylation shed lights into the crucial role of Golgi manganese homeostasis. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129674.	1.1	25
43	Lipid nanocapsules functionalized with polyethyleneimine for plasmid DNA and drug co-delivery and cell imaging. Nanoscale, 2014, 6, 7379.	2.8	24
44	Dissection of TMEM165 function in Golgi glycosylation and its Mn2+ sensitivity. Biochimie, 2019, 165, 123-130.	1.3	22
45	Involvement of thapsigarginâ€“ and cyclopiazonic acidâ€“sensitive pumps in the rescue of TMEM165â€associated glycosylation defects by Mn²⁺. FASEB Journal, 2019, 33, 2669-2679.	0.2	21
46	PUGNAc treatment leads to an unusual accumulation of free oligosaccharides in CHO cells. Journal of Biochemistry, 2012, 151, 439-446.	0.9	20
47	Nâ€glycosylation influences the structure and selfâ€association abilities of recombinant nucleolin. FEBS Journal, 2011, 278, 2552-2564.	2.2	19
48	Characterization of Two Kinds of Lactotransferrin (Lactoferrin) Receptors on Different Target Cells. Advances in Experimental Medicine and Biology, 1994, 357, 13-19.	0.8	19
49	Identification by surface plasmon resonance of the mycobacterial lipomannan and lipoarabinomannan domains involved in binding to CD14 and LPS-binding protein. FEBS Letters, 2007, 581, 1383-1390.	1.3	17
50	Identification of a major 72 kilodalton surface antigen in twelve isolates of Leishmania braziliensis braziliensis. Molecular and Biochemical Parasitology, 1987, 24, 117-124.	0.5	14
51	Advances in lactoferrin research. Biochimie, 2009, 91, 1-2.	1.3	14
52	Crystallization and preliminary X-ray diffraction study of Lathyrus ochrus isolectin II complexed to the human lactotransferrin N2 fragment. Journal of Molecular Biology, 1992, 227, 938-941.	2.0	13
53	Nanoscale devices for online dielectric spectroscopy of biological cells. Physiological Measurement, 2008, 29, S213-S225.	1.2	11
54	Study on the Binding of Lactotransferrin (Lactoferrin) to Human Pha-Activated Lymphocytes and Non-Activated Platelets. Advances in Experimental Medicine and Biology, 1994, 357, 111-119.	0.8	6

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55	Processes Underlying Interactions of Human Lactoferrin with the Jurkat Human Lymphoblastic T-cell Line Receptor. I - Quantitative Structure-Affinity Relationships Studies. QSAR and Combinatorial Science, 1996, 15, 94-101.	1.4	4
56	Processes Underlying Interactions of Human Lactoferrin with the Jurkat Human Lymphoblastic T-cell Line Receptor. II - Comparative Molecular Field Analysis. QSAR and Combinatorial Science, 1996, 15, 102-107.	1.4	4
57	SLC10A7, an orphan member of the SLC10 family involved in congenital disorders of glycosylation. Human Genetics, 2022, 141, 1287-1298.	1.8	3
58	Differential Effects of D-Galactose Supplementation on Golgi Glycosylation Defects in TMEM165 Deficiency. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	3
59	Trypanosoma cruzi: expression of antigenic component 5 among 35 laboratory clones obtained from 18 different isozymic variants. Revista Do Instituto De Medicina Tropical De Sao Paulo, 1987, 29, 80-85.	0.5	1
60	Structural Determination of Two N-Linked Glycans Isolated from Recombinant Human Lactoferrin Expressed in BHK Cells. , 1997, , 111-117.		1
61	Difference in Binding and Fate of Lactotransferrin in Jurkat Human Lymphoblastic T-Cells and in T-47D Human Breast Cancer Cells. , 1997, , 193-209.		0