Thierry Fontaine

List of Publications by Year
in descending order

88	6,013	57758 44	74163 75
papers	citations	h-index	g-index

91	91	91	5213
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Organization of the Alkali-insoluble Fraction ofAspergillus fumigatus Cell Wall. Journal of Biological Chemistry, 2000, 275, 27594-27607.	3.4	342
2	Glycosylphosphatidylinositol-anchored Glucanosyltransferases Play an Active Role in the Biosynthesis of the Fungal Cell Wall. Journal of Biological Chemistry, 2000, 275, 14882-14889.	3.4	308
3	Bacterial SLH domain proteins are non-covalently anchored to the cell surface via a conserved mechanism involving wall polysaccharide pyruvylation. EMBO Journal, 2000, 19, 4473-4484.	7.8	296
4	Aspergillus Galactosaminogalactan Mediates Adherence to Host Constituents and Conceals Hyphal Î²-Glucan from the Immune System. PLoS Pathogens, 2013, 9, e1003575.	4.7	256
5	Broad-spectrum biofilm inhibition by a secreted bacterial polysaccharide. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12558-12563.	7.1	222
6	Galactosaminogalactan, a New Immunosuppressive Polysaccharide of Aspergillus fumigatus. PLoS Pathogens, 2011, 7, e1002372.	4.7	185
7	The Fungal Exopolysaccharide Galactosaminogalactan Mediates Virulence by Enhancing Resistance to Neutrophil Extracellular Traps. PLoS Pathogens, 2015, 11, e1005187.	4.7	167
8	Immune Sensing of Aspergillus fumigatus Proteins, Glycolipids, and Polysaccharides and the Impact on Th Immunity and Vaccination. Journal of Immunology, 2009, 183, 2407-2414.	0.8	159
9	Deletion of GEL2 encoding for a Î²(1â€“3)glucanosyltransferase affects morphogenesis and virulence in Aspergillus fumigatus. Molecular Microbiology, 2005, 56, 1675-1688.	2.5	146
10	A secreted antiâ€activator, OspD1, and its chaperone, Spa15, are involved in the control of transcription by the type III secretion apparatus activity in Shigella flexneri. Molecular Microbiology, 2005, 56, 1627-1635.	2.5	121
11	A Polysaccharide Virulence Factor from Aspergillus fumigatus Elicits Anti-inflammatory Effects through Induction of Interleukin-1 Receptor Antagonist. PLoS Pathogens, 2014, 10, e1003936.	4.7	117
12	Cell Wall Î²-(1,6)-Glucan of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2009, 284, 13401-13412.	3.4	116
13	A Novel Î²-(, ,)-Glucanosyltransferase from the Cell Wall of Aspergillus fumigatus. Journal of Biological Chemistry, 1996, 271, 26843-26849.	3.4	114
14	Molecular characterization of the Aspergillus nidulans treA gene encoding an acid trehalase required for growth on trehalose. Molecular Microbiology, 1997, 24, 203-216.	2.5	110
15	Cell wall Î±1-3glucans induce the aggregation of germinating conidia of Aspergillus fumigatus. Fungal Genetics and Biology, 2010, 47, 707-712.	2.1	108
16	Aspergillus Cell Wall and Biofilm. Mycopathologia, 2014, 178, 371-377.	3.1	108
17	Systematic capsule gene disruption reveals the central role of galactose metabolism on Cryptococcus neoformans virulence. Molecular Microbiology, 2007, 64, 771-781.	2.5	102
18	Overlapping and Distinct Roles of Aspergillus fumigatus UDP-glucose 4-Epimerases in Galactose Metabolism and the Synthesis of Galactose-containing Cell Wall Polysaccharides. Journal of Biological Chemistry, 2014, 289, 1243-1256.	3.4	102

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19	Neutral trehalases catalyse intracellular trehalose breakdown in the filamentous fungi Aspergillus nidulans and Neurospora crassa. Molecular Microbiology, 1999, 32, 471-483.	2.5	101
20	The Gas family of proteins ofSaccharomyces cerevisiae: characterization and evolutionary analysis. Yeast, 2007, 24, 297-308.	1.7	99
21	Modulation of Intestinal Inflammation by Yeasts and Cell Wall Extracts: Strain Dependence and Unexpected Anti-Inflammatory Role of Glucan Fractions. PLoS ONE, 2012, 7, e40648.	2.5	96
22	Streptococcus pyogenes protein F promotes invasion of HeLa cells. Microbiology (United Kingdom), 1998, 144, 3079-3086.	1.8	89
23	Glycosylphosphatidylinositol-anchored Fungal Polysaccharide in Aspergillus fumigatus. Journal of Biological Chemistry, 2005, 280, 39835-39842.	3.4	89
24	Recombinant antigens as diagnostic markers for aspergillosis. Diagnostic Microbiology and Infectious Disease, 2006, 55, 279-291.	1.8	88
25	Galactofuranose attenuates cellular adhesion ofAspergillus fumigatus. Cellular Microbiology, 2009, 11, 1612-1623.	2.1	87
26	Î²(1-3)Glucanosyltransferase Gel4p Is Essential for Aspergillus fumigatus. Eukaryotic Cell, 2010, 9, 1294-1298.	3.4	84
27	Production, isolation and preliminary characterization of the exopolysaccharide of the cyanobacterium Spirulina platensis. Biotechnology Letters, 1993, 15, 567-572.	2.2	82
28	Screening of Escherichia coli Species Biodiversity Reveals New Biofilm-Associated Antiadhesion Polysaccharides. MBio, 2011, 2, e00043-11.	4.1	81
29	Aspergillus fumigatus Cell Wall Î±-(1,3)-Glucan Stimulates Regulatory T-Cell Polarization by Inducing PD-L1 Expression on Human Dendritic Cells. Journal of Infectious Diseases, 2017, 216, 1281-1294.	4.0	81
30	Galactosaminogalactan activates the inflammasome to provide host protection. Nature, 2020, 588, 688-692.	27.8	78
31	Structures of the glycosylphosphatidylinositol membrane anchors from Aspergillus fumigatus membrane proteins. Glycobiology, 2003, 13, 169-177.	2.5	73
32	Purification and Characterization of an Endo-1,3-beta-Glucanase from Aspergillus fumigatus. FEBS Journal, 1997, 243, 315-321.	0.2	72
33	Characterization of a New Î²(1â€“3)-Glucan Branching Activity of Aspergillus fumigatus. Journal of Biological Chemistry, 2010, 285, 2386-2396.	3.4	72
34	A Polysaccharide Virulence Factor of a Human Fungal Pathogen Induces Neutrophil Apoptosis via NK Cells. Journal of Immunology, 2014, 192, 5332-5342.	0.8	68
35	Molecular Mechanisms of Yeast Cell Wall Glucan Remodeling. Journal of Biological Chemistry, 2009, 284, 8461-8469.	3.4	67
36	Identification of the catalytic residues of the first family of Î²(1â€“3)glucanosyltransferases identified in fungi. Biochemical Journal, 2000, 347, 741-747.	3.7	66

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37	Glycerol dehydrogenase, encoded by gldB is essential for osmotolerance in Aspergillus nidulans. Molecular Microbiology, 2003, 49, 131-141.	2.5	62
38	Chemical Organization of the Cell Wall Polysaccharide Core of Malassezia restricta. Journal of Biological Chemistry, 2014, 289, 12647-12656.	3.4	62
39	Characterization of a cell-wall acid phosphatase (PhoAp) in Aspergillus fumigatus The GenBank accession number for the A. fumigatus PHOA sequence reported in this paper is AF462065.. Microbiology (United Kingdom), 2002, 148, 2819-2829.	1.8	61
40	A molecular vision of fungal cell wall organization by functional genomics and solid-state NMR. Nature Communications, 2021, 12, 6346.	12.8	54
41	Characterization of recombinant forms of the yeast Gas1 protein and identification of residues essential for glucanosyltransferase activity and folding. FEBS Journal, 2004, 271, 3635-3645.	0.2	49
42	Identification ofAspergillus fumigatusSurface Components That Mediate Interaction of Conidia and Hyphae With Human Platelets. Journal of Infectious Diseases, 2015, 212, 1140-1149.	4.0	49
43	Galactosaminogalactan ofAspergillus fumigatus, a bioactive fungal polymer. Mycologia, 2016, 108, 572-580.	1.9	48
44	Glycosylinositolphosphoceramides in Aspergillus Fumigatus. Glycobiology, 2007, 18, 84-96.	2.5	47
45	Characterization of the endo-Î²-1,3-glucanase activity of S. cerevisiae Eng2 and other members of the GH81 family. Fungal Genetics and Biology, 2008, 45, 542-553.	2.1	46
46	Biosynthesis of cell wall mannan in the conidium and the mycelium ofAspergillusfumigatus. Cellular Microbiology, 2016, 18, 1881-1891.	2.1	46
47	Differential patterns of activity displayed by two exo-beta-1,3-glucanases associated with the Aspergillus fumigatus cell wall. Journal of Bacteriology, 1997, 179, 3154-3163.	2.2	44
48	The Î²â€1,3â€glucanosyltransferase gas4p is essential for ascospore wall maturation and spore viability in Schizosaccharomyces pombe . Molecular Microbiology, 2008, 68, 1283-1299.	2.5	41
49	Molecular organization of the alkali-insoluble fraction of Aspergillus fumigatus cell wall.. Journal of Biological Chemistry, 2000, 275, 41528-41530.	3.4	39
50	Biochemical characterization and surfactant properties of horse allergens. FEBS Journal, 2001, 268, 3126-3136.	0.2	36
51	UGE1 and UGE2 Regulate the UDP-Glucose/UDP-Galactose Equilibrium in Cryptococcus neoformans. Eukaryotic Cell, 2008, 7, 2069-2077.	3.4	36
52	Comparative functional analysis of the OCH1 mannosyltransferase families in Aspergillus fumigatus and Saccharomyces cerevisiae. Yeast, 2010, 27, 625-636.	1.7	35
53	Biotinylated Oligo-Î±-(1 â†' 4)-<scp>d</scp>-galactosamines and Their N-Acetylated Derivatives: Î±-Stereoselective Synthesis and Immunology Application. Journal of the American Chemical Society, 2020, 142, 1175-1179.	13.7	35
54	The Schizosaccharomyces pombe endoâ€1,3â€Î²â€glucanase Eng1 contains a novel carbohydrate binding module required for septum localization. Molecular Microbiology, 2008, 69, 188-200.	2.5	34

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55	Novel mouse monoclonal antibodies specifically recognize Aspergillus fumigatus galactomannan. PLoS ONE, 2018, 13, e0193938.	2.5	34
56	From the surface to the inner layer of the fungal cell wall. Biochemical Society Transactions, 1997, 25, 194-199.	3.4	33
57	Nanoscale biophysical properties of the cell surface galactosaminogalactan from the fungal pathogen Aspergillus fumigatus. Nanoscale, 2015, 7, 14996-15004.	5.6	33
58	Î²(1,3)-Glucanosyl-Transferase Activity Is Essential for Cell Wall Integrity and Viability of Schizosaccharomyces pombe. PLoS ONE, 2010, 5, e14046.	2.5	32
59	Characterization of glucuronic acid containing glycolipid in Aspergillus fumigatus mycelium. Carbohydrate Research, 2009, 344, 1960-1967.	2.3	31
60	Two KTR Mannosyltransferases Are Responsible for the Biosynthesis of Cell Wall Mannans and Control Polarized Growth in Aspergillus fumigatus. MBio, 2019, 10, .	4.1	31
61	Soluble and glyco-lipid modified baculovirus Plasmodium falciparum C-terminal merozoite surface protein 1, two forms of a leading malaria vaccine candidate. Vaccine, 2006, 24, 5997-6008.	3.8	30
62	The Glycosylphosphatidylinositol-Anchored DFG Family Is Essential for the Insertion of Galactomannan into the Î²-(1,3)-Glucanâ€“Chitin Core of the Cell Wall of Aspergillus fumigatus. MSphere, 2019, 4, .	2.9	28
63	Galactomannan Produced by Aspergillus fumigatus: An Update on the Structure, Biosynthesis and Biological Functions of an Emblematic Fungal Biomarker. Journal of Fungi (Basel, Switzerland), 2020, 6, 283.	3.5	28
64	Disruption of the Bcchs3a Chitin Synthase Gene in Botrytis cinerea Is Responsible for Altered Adhesion and Overstimulation of Host Plant Immunity. Molecular Plant-Microbe Interactions, 2010, 23, 1324-1334.	2.6	26
65	Functional Genomic and Biochemical Analysis Reveals Pleiotropic Effect of Congo Red on Aspergillus fumigatus. MBio, 2021, 12, .	4.1	24
66	Isolation and characterisation of hemicelluloses from sunflower hulls. Carbohydrate Research, 1993, 243, 323-332.	2.3	23
67	Potential of Chemically Synthesized Oligosaccharides To Define the Carbohydrate Moieties of the Fungal Cell Wall Responsible for the Human Immune Response, Using Aspergillus fumigatus Galactomannan as a Model. MSphere, 2020, 5, .	2.9	23
68	Structural investigation of an acidic polysaccharide from a deep-sea hydrothermal vent marine bacterium. Food Hydrocolloids, 1991, 5, 171-172.	10.7	22
69	Identification of the catalytic residues of the first family of Î²(1â€'3)glucanosyltransferases identified in fungi. Biochemical Journal, 2000, 347, 741.	3.7	21
70	Characterization of Glycoside Hydrolase Family 5 Proteins in Schizosaccharomyces pombe. Eukaryotic Cell, 2010, 9, 1650-1660.	3.4	20
71	Identification of two glycosylated components of Mycoplasma penetrans: a surface-exposed capsular polysaccharide and a glycolipid fraction. Microbiology (United Kingdom), 1998, 144, 1247-1255.	1.8	19
72	Sphingolipids from the human fungal pathogen Aspergillus fumigatus. Biochimie, 2017, 141, 9-15.	2.6	19

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73	Glycosylphosphatidylinositol Anchors from Galactomannan and GPI-Anchored Protein Are Synthesized by Distinct Pathways in Aspergillus fumigatus. Journal of Fungi (Basel, Switzerland), 2018, 4, 19.	3.5	19
74	Analysis of pyruvic acid acetal containing polysaccharides by methanolysis and reductive cleavage methods. Analytical Biochemistry, 1991, 199, 154-161.	2.4	18
75	Definition of the Anti-inflammatory Oligosaccharides Derived From the Galactosaminogalactan (GAG) From Aspergillus fumigatus. Frontiers in Cellular and Infection Microbiology, 2019, 9, 365.	3.9	18
76	A new procedure for the reduction of uronic acid containing polysaccharides. Journal of Microbiological Methods, 1994, 20, 149-157.	1.6	16
77	In Vitro Biosynthesis of Glycosylphosphatidylinositol inAspergillus fumigatusâ€. Biochemistry, 2004, 43, 15267-15275.	2.5	16
78	Exopolysaccharide structure from Bacillus circulans. FEBS Journal, 1991, 196, 107-113.	0.2	11
79	Cell Wall of Aspergillus fumigatus: a Dynamic Structure. , 2014, , 169-183.		10
80	Fungal cell wall components modulate our immune system. Cell Surface, 2021, 7, 100067.	3.0	10
81	Modifications to the composition of the hyphal outer layer of Aspergillus fumigatus modulates HUVEC proteins related to inflammatory and stress responses. Journal of Proteomics, 2017, 151, 83-96.	2.4	9
82	Differentiation of Capsular Polysaccharides from Acetobacter diazotrophicus Strains Isolated from Sugarcane. Microbiology and Immunology, 1995, 39, 237-242.	1.4	7
83	Dataset of differentially regulated proteins in HUVECs challenged with wild type and UGM1 mutant Aspergillus fumigatus strains. Data in Brief, 2016, 9, 24-31.	1.0	6
84	Bacterial cell wallâ€degrading enzymes induce basidiomycete natural product biosynthesis. Environmental Microbiology, 2021, 23, 4360-4371.	3.8	5
85	Enzymic Studies of the Distribution Pattern of 4-O-Methylglucuronic Acid Residues in Glucuronoxylans from Sunflower Hulls. Bioscience, Biotechnology and Biochemistry, 1992, 56, 508-509.	1.3	4
86	Surfactant protein D inhibits growth, alters cell surface polysaccharide exposure and immune activation potential of Aspergillus fumigatus. Cell Surface, 2022, 8, 100072.	3.0	4
87	Molecular characterization of a cell wall-associated ÃŸ(1-3)endoglucanase of Aspergillus fumigatus. Medical Mycology, 2002, 40, 455-464.	0.7	2
88	First Report of CD4 Lymphopenia and Defective Neutrophil Functions in a Patient with Amebiasis Associated with CMV Reactivation and Severe Bacterial and Fungal Infections. Frontiers in Microbiology, 2017, 8, 203.	3.5	1