Leonardo Nimrichter

List of Publications by Year
in descending order

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115 papers	13,400 citations	47006 47 h-index	24258 110 g-index
127 all docs	127 docs citations	127 times ranked	16132 citing authors

#	Article	IF	Citations
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. Journal of Extracellular Vesicles, 2018, 7, 1535750.	12.2	6,961
2	Extracellular Vesicles Produced by Cryptococcus neoformans Contain Protein Components Associated with Virulence. Eukaryotic Cell, 2008, 7, 58-67.	3.4	491
3	Vesicular Polysaccharide Export in Cryptococcus neoformans Is a Eukaryotic Solution to the Problem of Fungal Trans-Cell Wall Transport. Eukaryotic Cell, 2007, 6, 48-59.	3.4	454
4	Compositional and immunobiological analyses of extracellular vesicles released byCandida albicans. Cellular Microbiology, 2015, 17, 389-407.	2.1	242
5	Extracellular Vesicles from Cryptococcus neoformans Modulate Macrophage Functions. Infection and Immunity, 2010, 78, 1601-1609.	2.2	238
6	Characterization of Yeast Extracellular Vesicles: Evidence for the Participation of Different Pathways of Cellular Traffic in Vesicle Biogenesis. PLoS ONE, 2010, 5, e11113.	2.5	215
7	Extracellular vesicle-mediated export of fungal RNA. Scientific Reports, 2015, 5, 7763.	3.3	185
8	Self-Aggregation of Cryptococcus neoformans Capsular Glucuronoxylomannan Is Dependent on Divalent Cations. Eukaryotic Cell, 2007, 6, 1400-1410.	3.4	135
9	E-selectin receptors on human leukocytes. Blood, 2008, 112, 3744-3752.	1.4	131
10	Identification of a New Class of Antifungals Targeting the Synthesis of Fungal Sphingolipids. MBio, 2015, 6, e00647.	4.1	124
11	The plant defensin RsAFP2 induces cell wall stress, septin mislocalization and accumulation of ceramides in Candida albicans. Molecular Microbiology, 2012, 84, 166-180.	2.5	123
12	Intact cell adhesion to glycan microarrays. Glycobiology, 2003, 14, 197-203.	2.5	109
13	The impact of proteomics on the understanding of functions and biogenesis of fungal extracellular vesicles. Journal of Proteomics, 2014, 97, 177-186.	2.4	109
14	Cryptococcus neoformans Capsular Polysaccharide and Exopolysaccharide Fractions Manifest Physical, Chemical, and Antigenic Differences. Eukaryotic Cell, 2008, 7, 319-327.	3.4	104
15	Vesicular Trans-Cell Wall Transport in Fungi: A Mechanism for the Delivery of Virulence-Associated Macromolecules?. Lipid Insights, 2008, 2, LPI.S1000.	1.0	96
16	Synthesis and Biological Properties of Fungal Glucosylceramide. PLoS Pathogens, 2014, 10, e1003832.	4.7	96
17	Biology and pathogenesis ofFonsecaea pedrosoi, the major etiologic agent of chromoblastomycosis. FEMS Microbiology Reviews, 2007, 31, 570-591.	8.6	95
18	Potential Roles of Fungal Extracellular Vesicles during Infection. MSphere, 2016, 1, .	2.9	95

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19	Capsule ofCryptococcus neoformansgrows by enlargement of polysaccharide molecules. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1228-1233.	7.1	94
20	Effective Topical Treatment of Subcutaneous Murine B16F10-Nex2 Melanoma By the Antimicrobial Peptide Gomesin. Neoplasia, 2008, 10, 61-68.	5.3	85
21	The multitude of targets for the immune system and drug therapy in the fungal cell wall. Microbes and Infection, 2005, 7, 789-798.	1.9	80
22	In Vitro Activity of the Antifungal Plant Defensin RsAFP2 against Candida Isolates and Its In Vivo Efficacy in Prophylactic Murine Models of Candidiasis. Antimicrobial Agents and Chemotherapy, 2008, 52, 4522-4525.	3.2	79
23	Role for Golgi reassembly and stacking protein (GRASP) in polysaccharide secretion and fungal virulence. Molecular Microbiology, 2011, 81, 206-218.	2.5	78
24	Monoclonal Antibody to Fungal Glucosylceramide Protects Mice against LethalCryptococcus neoformansInfection. Vaccine Journal, 2007, 14, 1372-1376.	3.1	74
25	Vesicular mechanisms of traffic of fungal molecules to the extracellular space. Current Opinion in Microbiology, 2013, 16, 414-420.	5.1	74
26	Probiotic Saccharomyces cerevisiae strains as biotherapeutic tools: is there room for improvement?. Applied Microbiology and Biotechnology, 2015, 99, 6563-6570.	3.6	74
27	Extracellular Vesicle-Associated Transitory Cell Wall Components and Their Impact on the Interaction of Fungi with Host Cells. Frontiers in Microbiology, 2016, 7, 1034.	3.5	74
28	Antibody Binding Alters the Characteristics and Contents of Extracellular Vesicles Released by Histoplasma capsulatum. MSphere, 2016, 1, .	2.9	74
29	Immunomodulatory Effects of Serotype B Glucuronoxylomannan from Cryptococcus gattii Correlate with Polysaccharide Diameter. Infection and Immunity, 2010, 78, 3861-3870.	2.2	73
30	Extracellular vesicles and vesicle-free secretome of the protozoa Acanthamoeba castellanii under homeostasis and nutritional stress and their damaging potential to host cells. Virulence, 2018, 9, 818-836.	4.4	68
31	A Novel Protocol for the Isolation of Fungal Extracellular Vesicles Reveals the Participation of a Putative Scramblase in Polysaccharide Export and Capsule Construction in Cryptococcus gattii. MSphere, 2019, 4, .	2.9	67
32	Concentration-dependent protein loading of extracellular vesicles released by Histoplasma capsulatum after antibody treatment and its modulatory action upon macrophages. Scientific Reports, 2018, 8, 8065.	3.3	66
33	Multi-omics Signature of Candida auris , an Emerging and Multidrug-Resistant Pathogen. MSystems, 2019, 4, .	3.8	65
34	A monoclonal antibody to glucosylceramide inhibits the growth of Fonsecaea pedrosoi and enhances the antifungal action of mouse macrophages. Microbes and Infection, 2004, 6, 657-665.	1.9	64
35	Cryptococcus neoformansGlucuronoxylomannan and Sterylglucoside Are Required for Host Protection in an Animal Vaccination Model. MBio, 2019, 10, .	4.1	63
36	Traveling into Outer Space: Unanswered Questions about Fungal Extracellular Vesicles. PLoS Pathogens, 2015, 11, e1005240.	4.7	63

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37	Definition of Molecular Determinants of Prostate Cancer Cell Bone Extravasation. Cancer Research, 2013, 73, 942-952.	0.9	61
38	Capsules from Pathogenic and Non-Pathogenic Cryptococcus spp. Manifest Significant Differences in Structure and Ability to Protect against Phagocytic Cells. PLoS ONE, 2012, 7, e29561.	2.5	61
39	Vesicular transport systems in fungi. Future Microbiology, 2011, 6, 1371-1381.	2.0	60
40	Cryptococcus neoformans cryoultramicrotomy and vesicle fractionation reveals an intimate association between membrane lipids and glucuronoxylomannan. Fungal Genetics and Biology, 2009, 46, 956-963.	2.1	59
41	Glucuronoxylomannan-mediated interaction of Cryptococcus neoformans with human alveolar cells results in fungal internalization and host cell damage. Microbes and Infection, 2006, 8, 493-502.	1.9	58
42	Membrane redistribution of gangliosides and glycosylphosphatidylinositol-anchored proteins in brain tissue sections under conditions of lipid raft isolation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1686, 200-208.	2.4	57
43	Role for Chitin and Chitooligomers in the Capsular Architecture of Cryptococcus neoformans. Eukaryotic Cell, 2009, 8, 1543-1553.	3.4	54
44	Fungal Glucosylceramides: From Structural Components to Biologically Active Targets of New Antimicrobials. Frontiers in Microbiology, 2011, 2, 212.	3.5	54
45	Protective effect of fungal extracellular vesicles against murine candidiasis. Cellular Microbiology, 2020, 22, e13238.	2.1	51
46	Structure, Cellular Distribution, Antigenicity, and Biological Functions of Fonsecaea pedrosoi Ceramide Monohexosides. Infection and Immunity, 2005, 73, 7860-7868.	2.2	49
47	A role for vesicular transport of macromolecules across cell walls in fungal pathogenesis. Communicative and Integrative Biology, 2008, 1, 37-39.	1.4	49
48	Structural and functional properties of the Trichosporon asahii glucuronoxylomannan. Fungal Genetics and Biology, 2009, 46, 496-505.	2.1	49
49	Media matters! Alterations in the loading and release of <scp> Histoplasma capsulatum </scp> extracellular vesicles in response to different nutritional milieus. Cellular Microbiology, 2020, 22, e13217.	2.1	49
50	Gomesin, a peptide produced by the spiderAcanthoscurria gomesiana, is a potent anticryptococcal agent that acts in synergism with fluconazole. FEMS Microbiology Letters, 2007, 274, 279-286.	1.8	47
51	Cryptococcus neoformans responds to mannitol by increasing capsule size in vitro and in vivo. Cellular Microbiology, 2010, 12, 740-753.	2.1	47
52	Cryptococcus extracellular vesicles properties and their use as vaccine platforms. Journal of Extracellular Vesicles, 2021, 10, e12129.	12.2	47
53	Chronological Aging Is Associated with Biophysical and Chemical Changes in the Capsule of Cryptococcus neoformans. Infection and Immunity, 2011, 79, 4990-5000.	2.2	45
54	The Vacuolar Ca 2+ Exchanger Vcx1 Is Involved in Calcineurin-Dependent Ca 2+ Tolerance and Virulence in Cryptococcus neoformans. Eukaryotic Cell, 2010, 9, 1798-1805.	3.4	44

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55	Characterization of Extracellular Vesicles Produced by Aspergillus fumigatus Protoplasts. MSphere, 2020, 5, .	2.9	43
56	The GATA-type transcriptional activator Gat1 regulates nitrogen uptake and metabolism in the human pathogen Cryptococcus neoformans. Fungal Genetics and Biology, 2011, 48, 192-199.	2.1	42
57	Histoplasma capsulatum Heat-Shock 60 Orchestrates the Adaptation of the Fungus to Temperature Stress. PLoS ONE, 2011, 6, e14660.	2.5	42
58	Biogenesis of extracellular vesicles in yeast. Communicative and Integrative Biology, 2010, 3, 533-535.	1.4	41
59	Gangliosides expressed on breast cancer cells are E-selectin ligands. Biochemical and Biophysical Research Communications, 2011, 406, 423-429.	2.1	40
60	An ectophosphatase activity inCryptococcus neoformans. FEMS Yeast Research, 2006, 6, 1010-1017.	2.3	38
61	The Elastic Properties of the Cryptococcus neoformans Capsule. Biophysical Journal, 2009, 97, 937-945.	0.5	38
62	Antibody Binding to Cryptococcus neoformans Impairs Budding by Altering Capsular Mechanical Properties. Journal of Immunology, 2013, 190, 317-323.	0.8	36
63	Characterization of the antifungal functions of a WGA-Fc (IgG2a) fusion protein binding to cell wall chitin oligomers. Scientific Reports, 2017, 7, 12187.	3.3	34
64	An ectophosphatase activity inCandida parapsilosisinfluences the interaction of fungi with epithelial cells. FEMS Yeast Research, 2007, 7, 621-628.	2.3	33
65	Anti-ganglioside antibodies bind with enhanced affinity to gangliosides containing very long chain fatty acids. Neurochemical Research, 2002, 27, 847-855.	3.3	31
66	Agglutination ofHistoplasma capsulatumby IgG Monoclonal Antibodies against Hsp60 Impacts Macrophage Effector Functions. Infection and Immunity, 2011, 79, 918-927.	2.2	31
67	Use of a stainless steel washer platform to study Acinetobacter baumannii adhesion and biofilm formation on abiotic surfaces. Microbiology (United Kingdom), 2013, 159, 2594-2604.	1.8	31
68	Binding of the wheat germ lectin to Cryptococcus neoformans chitooligomers affects multiple mechanisms required for fungal pathogenesis. Fungal Genetics and Biology, 2013, 60, 64-73.	2.1	31
69	Binding of Glucuronoxylomannan to the CD14 Receptor in Human A549 Alveolar Cells Induces Interleukin-8 Production. Vaccine Journal, 2007, 14, 94-98.	3.1	30
70	The putative autophagy regulator Atg7 affects the physiology and pathogenic mechanisms ofCryptococcus neoformans. Future Microbiology, 2016, 11, 1405-1419.	2.0	30
71	Fungal Polysaccharides: Biological Activity Beyond the Usual Structural Properties. Frontiers in Microbiology, 2011, 2, 171.	3.5	28
72	Chitin-Like Molecules Associate with Cryptococcus neoformans Glucuronoxylomannan To Form a Glycan Complex with Previously Unknown Properties. Eukaryotic Cell, 2012, 11, 1086-1094.	3.4	28

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73	Comparative Molecular and Immunoregulatory Analysis of Extracellular Vesicles from Candida albicans and Candida auris. MSystems, 2021, 6, e0082221.	3.8	27
74	Exposure of Human Leukemic Cells to Direct Electric Current: Generation of Toxic Compounds Inducing Cell Death by Different Mechanisms. Cell Biochemistry and Biophysics, 2005, 42, 061-074.	1.8	26
75	Enhanced virulence of Histoplasma capsulatum through transfer and surface incorporation of glycans from Cryptococcus neoformans during co-infection. Scientific Reports, 2016, 6, 21765.	3.3	26
76	Analysis of Yeast Extracellular Vesicles. Methods in Molecular Biology, 2016, 1459, 175-190.	0.9	24
77	Extracellular Vesicles Regulate Biofilm Formation and Yeast-to-Hypha Differentiation in Candida albicans. MBio, 2022, 13, e0030122.	4.1	24
78	The paradoxical and still obscure properties of fungal extracellular vesicles. Molecular Immunology, 2021, 135, 137-146.	2.2	23
79	A Paracoccidioides brasiliensis glycan shares serologic and functional properties with cryptococcal glucuronoxylomannan. Fungal Genetics and Biology, 2012, 49, 943-954.	2.1	22
80	Investigation of Candida parapsilosis virulence regulatory factors during host-pathogen interaction. Scientific Reports, 2018, 8, 1346.	3.3	21
81	Small Molecule Analysis of Extracellular Vesicles Produced by Cryptococcus gattii: Identification of a Tripeptide Controlling Cryptococcal Infection in an Invertebrate Host Model. Frontiers in Immunology, 2021, 12, 654574.	4.8	21
82	The still obscure attributes of cryptococcal glucuronoxylomannan. Medical Mycology, 2009, 47, 783-788.	0.7	20
83	The benefits of scientific mobility and international collaboration. FEMS Microbiology Letters, 2016, 363, .	1.8	20
84	Role of lipid transporters in fungal physiology and pathogenicity. Computational and Structural Biotechnology Journal, 2019, 17, 1278-1289.	4.1	18
85	Host membrane glycosphingolipids and lipid microdomains facilitateHistoplasma capsulatuminternalisation by macrophages. Cellular Microbiology, 2019, 21, e12976.	2.1	17
86	Biochemical characterization of an ecto-ATP diphosphohydrolase activity in Candida parapsilosisâ€ƒand its possible role in adenosine acquisition and pathogenesis. FEMS Yeast Research, 2010, 10, 735-746.	2.3	16
87	Identification of iGb3 and iGb4 in melanoma B16F10-Nex2 cells and the iNKT cell-mediated antitumor effect of dendritic cells primed with iGb3. Molecular Cancer, 2009, 8, 116.	19.2	15
88	In good company: association between fungal glycans generates molecular complexes with unique functions. Frontiers in Microbiology, 2012, 3, 249.	3.5	14
89	Omics Approaches for Understanding Biogenesis, Composition and Functions of Fungal Extracellular Vesicles. Frontiers in Genetics, 2021, 12, 648524.	2.3	13
90	Glucuronoxylomannan from Cryptococcus neoformans Down-regulates the Enzyme 6-Phosphofructo-1-kinase of Macrophages. Journal of Biological Chemistry, 2011, 286, 14820-14829.	3.4	11

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91	What Is New? Recent Knowledge on Fungal Extracellular Vesicles. Current Fungal Infection Reports, 2017, 11, 141-147.	2.6	11
92	Silver chitosan nanocomposites as a potential treatment for superficial candidiasis. Medical Mycology, 2021, 59, 993-1005.	0.7	11
93	Inhibition of Candida parapsilosis Fatty Acid Synthase (Fas2) Induces Mitochondrial Cell Death in Serum. PLoS Pathogens, 2012, 8, e1002879.	4.7	9
94	A glucuronoxylomannan-like glycan produced by Trichosporon mucoides. Fungal Genetics and Biology, 2018, 121, 46-55.	2.1	9
95	Antifungal Activity of Acylhydrazone Derivatives against Sporothrix spp.. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	9
96	From fundamental biology to the search for innovation: The story of fungal extracellular vesicles. European Journal of Cell Biology, 2022, 101, 151205.	3.6	9
97	Lipid droplet levels vary heterogeneously in response to simulated gastrointestinal stresses in different probiotic Saccharomyces cerevisiae strains. Journal of Functional Foods, 2016, 21, 193-200.	3.4	8
98	X-linked immunodeficient (XID) mice exhibit high susceptibility to Cryptococcus gattii infection. Scientific Reports, 2021, 11, 18397.	3.3	7
99	Protective Efficacy of Lectin-Fc(IgG) Fusion Proteins In Vitro and in a Pulmonary Aspergillosis In Vivo Model. Journal of Fungi (Basel, Switzerland), 2020, 6, 250.	3.5	6
100	Silver Chitosan Nanocomposites are Effective to Combat Sporotrichosis. Frontiers in Nanotechnology, 2022, 4, .	4.8	6
101	Sophisticated Functions for a Simple Molecule: The Role of Glucosylceramides in Fungal Cells. Lipid Insights, 2008, 2, LPI.S1014.	1.0	4
102	Histoplasma capsulatum Glycans From Distinct Genotypes Share Structural and Serological Similarities to Cryptococcus neoformans Glucuronoxylomannan. Frontiers in Cellular and Infection Microbiology, 2020, 10, 565571.	3.9	4
103	Recognition of Cell Wall Mannosylated Components as a Conserved Feature for Fungal Entrance, Adaptation and Survival Within Trophozoites of Acanthamoeba castellanii and Murine Macrophages. Frontiers in Cellular and Infection Microbiology, 2022, 12, .	3.9	4
104	Extracellular Vesicle Formation in Cryptococcus deuterogattii Impacts Fungal Virulence and Requires the NOP16 Gene. Infection and Immunity, 2022, 90, .	2.2	4
105	Exploiting Lipids to Develop Anticryptococcal Vaccines. Current Tropical Medicine Reports, 2019, 6, 55-63.	3.7	3
106	Host cell membrane microdomains and fungal infection. Cellular Microbiology, 2021, 23, e13385.	2.1	3
107	The Einstein-Brazil Fogarty: A decade of synergy. Brazilian Journal of Microbiology, 2015, 46, 945-955.	2.0	2
108	Dexamethasone and Methylprednisolone Promote Cell Proliferation, Capsule Enlargement, and in vivo Dissemination of C. neoformans. Frontiers in Fungal Biology, 2021, 2, .	2.0	2

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109	The still obscure attributes of cryptococcal glucuronoxylomannan. Medical Mycology, 0, , 1-7.	0.7	2
110	Fungal Extracellular Vesicles as a Potential Strategy for Vaccine Development. Current Topics in Microbiology and Immunology, 2021, 432, 121-138.	1.1	2
111	Isolation of Extracellular Vesicles from Candida auris. Methods in Molecular Biology, 2022, , 173-178.	0.9	2
112	Fungal Extracellular Vesicles. , 2018, , 333-333.		0
113	Fungal Infections of the Central Nervous System. , 2021, , 736-748.		0
114	Abstract 1547: Characterization of receptor-ligand interactions between head and neck circulating tumor cells and E-selectin. , 2011, , .		0
115	Current Microscopy Strategies to Image Fungal Vesicles: From the Intracellular Trafficking and Secretion to the Inner Structure of Isolated Vesicles. Current Topics in Microbiology and Immunology, 2021, 432, 139-159.	1.1	0