

# 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	From fundamental biology to the search for innovation: The story of fungal extracellular vesicles. <i>European Journal of Cell Biology</i> , 2022, 101, 151205.	3.6	9
2	Silver Chitosan Nanocomposites are Effective to Combat Sporotrichosis. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	4.8	6
3	Extracellular Vesicles Regulate Biofilm Formation and Yeast-to-Hypha Differentiation in <i>Candida albicans</i> . <i>MBio</i> , 2022, 13, e0030122.	4.1	24
4	Recognition of Cell Wall Mannosylated Components as a Conserved Feature for Fungal Entrance, Adaptation and Survival Within Trophozoites of <i>Acanthamoeba castellanii</i> and Murine Macrophages. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, .	3.9	4
5	Isolation of Extracellular Vesicles from <i>Candida auris</i> . <i>Methods in Molecular Biology</i> , 2022, , 173-178.	0.9	2
6	Extracellular Vesicle Formation in <i>Cryptococcus deuterogattii</i> Impacts Fungal Virulence and Requires the <i>NOP16</i> Gene. <i>Infection and Immunity</i> , 2022, 90, .	2.2	4
7	Dexamethasone and Methylprednisolone Promote Cell Proliferation, Capsule Enlargement, and in vivo Dissemination of <i>C. neoformans</i> . <i>Frontiers in Fungal Biology</i> , 2021, 2, .	2.0	2
8	Small Molecule Analysis of Extracellular Vesicles Produced by <i>Cryptococcus gattii</i> : Identification of a Tripeptide Controlling Cryptococcal Infection in an Invertebrate Host Model. <i>Frontiers in Immunology</i> , 2021, 12, 654574.	4.8	21
9	Antifungal Activity of Acylhydrazone Derivatives against <i>Sporothrix</i> spp.. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	9
10	Silver chitosan nanocomposites as a potential treatment for superficial candidiasis. <i>Medical Mycology</i> , 2021, 59, 993-1005.	0.7	11
11	Omics Approaches for Understanding Biogenesis, Composition and Functions of Fungal Extracellular Vesicles. <i>Frontiers in Genetics</i> , 2021, 12, 648524.	2.3	13
12	The paradoxical and still obscure properties of fungal extracellular vesicles. <i>Molecular Immunology</i> , 2021, 135, 137-146.	2.2	23
13	Comparative Molecular and Immunoregulatory Analysis of Extracellular Vesicles from <i>Candida albicans</i> and <i>Candida auris</i> . <i>MSystems</i> , 2021, 6, e0082221.	3.8	27
14	Host cell membrane microdomains and fungal infection. <i>Cellular Microbiology</i> , 2021, 23, e13385.	2.1	3
15	<i>Cryptococcus</i> extracellular vesicles properties and their use as vaccine platforms. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12129.	12.2	47
16	X-linked immunodeficient (XID) mice exhibit high susceptibility to <i>Cryptococcus gattii</i> infection. <i>Scientific Reports</i> , 2021, 11, 18397.	3.3	7
17	Fungal Infections of the Central Nervous System. , 2021, , 736-748.		0
18	Fungal Extracellular Vesicles as a Potential Strategy for Vaccine Development. <i>Current Topics in Microbiology and Immunology</i> , 2021, 432, 121-138.	1.1	2

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19	Current Microscopy Strategies to Image Fungal Vesicles: From the Intracellular Trafficking and Secretion to the Inner Structure of Isolated Vesicles. <i>Current Topics in Microbiology and Immunology</i> , 2021, 432, 139-159.	1.1	0
20	Characterization of Extracellular Vesicles Produced by <i>Aspergillus fumigatus</i> Protoplasts. <i>MSphere</i> , 2020, 5, .	2.9	43
21	Protective Efficacy of Lectin-Fc(IgG) Fusion Proteins In Vitro and in a Pulmonary Aspergillosis In Vivo Model. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 250.	3.5	6
22	Media matters! Alterations in the loading and release of <i>Histoplasma capsulatum</i> extracellular vesicles in response to different nutritional milieus. <i>Cellular Microbiology</i> , 2020, 22, e13217.	2.1	49
23	Protective effect of fungal extracellular vesicles against murine candidiasis. <i>Cellular Microbiology</i> , 2020, 22, e13238.	2.1	51
24	<i>Histoplasma capsulatum</i> Glycans From Distinct Genotypes Share Structural and Serological Similarities to <i>Cryptococcus neoformans</i> Glucuronoxylomannan. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 565571.	3.9	4
25	Host membrane glycosphingolipids and lipid microdomains facilitate <i>Histoplasma capsulatum</i> internalisation by macrophages. <i>Cellular Microbiology</i> , 2019, 21, e12976.	2.1	17
26	Role of lipid transporters in fungal physiology and pathogenicity. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1278-1289.	4.1	18
27	Multi-omics Signature of <i>Candida auris</i> , an Emerging and Multidrug-Resistant Pathogen. <i>MSystems</i> , 2019, 4, .	3.8	65
28	Exploiting Lipids to Develop Anticryptococcal Vaccines. <i>Current Tropical Medicine Reports</i> , 2019, 6, 55-63.	3.7	3
29	A Novel Protocol for the Isolation of Fungal Extracellular Vesicles Reveals the Participation of a Putative Scramblase in Polysaccharide Export and Capsule Construction in <i>Cryptococcus gattii</i> . <i>MSphere</i> , 2019, 4, .	2.9	67
30	<i>Cryptococcus neoformans</i> Glucuronoxylomannan and Sterylglucoside Are Required for Host Protection in an Animal Vaccination Model. <i>MBio</i> , 2019, 10, .	4.1	63
31	Investigation of <i>Candida parapsilosis</i> virulence regulatory factors during host-pathogen interaction. <i>Scientific Reports</i> , 2018, 8, 1346.	3.3	21
32	Extracellular vesicles and vesicle-free secretome of the protozoa <i>Acanthamoeba castellanii</i> under homeostasis and nutritional stress and their damaging potential to host cells. <i>Virulence</i> , 2018, 9, 818-836.	4.4	68
33	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. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	12.2	6,961
34	Fungal Extracellular Vesicles. , 2018, , 333-333.		0
35	A glucuronoxylomannan-like glycan produced by <i>Trichosporon mucoides</i> . <i>Fungal Genetics and Biology</i> , 2018, 121, 46-55.	2.1	9
36	Concentration-dependent protein loading of extracellular vesicles released by <i>Histoplasma capsulatum</i> after antibody treatment and its modulatory action upon macrophages. <i>Scientific Reports</i> , 2018, 8, 8065.	3.3	66

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37	What Is New? Recent Knowledge on Fungal Extracellular Vesicles. <i>Current Fungal Infection Reports</i> , 2017, 11, 141-147.	2.6	11
38	Characterization of the antifungal functions of a WGA-Fc (IgG2a) fusion protein binding to cell wall chitin oligomers. <i>Scientific Reports</i> , 2017, 7, 12187.	3.3	34
39	Extracellular Vesicle-Associated Transitory Cell Wall Components and Their Impact on the Interaction of Fungi with Host Cells. <i>Frontiers in Microbiology</i> , 2016, 7, 1034.	3.5	74
40	Antibody Binding Alters the Characteristics and Contents of Extracellular Vesicles Released by <i>Histoplasma capsulatum</i> . <i>MSphere</i> , 2016, 1, .	2.9	74
41	Analysis of Yeast Extracellular Vesicles. <i>Methods in Molecular Biology</i> , 2016, 1459, 175-190.	0.9	24
42	Potential Roles of Fungal Extracellular Vesicles during Infection. <i>MSphere</i> , 2016, 1, .	2.9	95
43	The benefits of scientific mobility and international collaboration. <i>FEMS Microbiology Letters</i> , 2016, 363, .	1.8	20
44	The putative autophagy regulator Atg7 affects the physiology and pathogenic mechanisms of <i>Cryptococcus neoformans</i> . <i>Future Microbiology</i> , 2016, 11, 1405-1419.	2.0	30
45	Enhanced virulence of <i>Histoplasma capsulatum</i> through transfer and surface incorporation of glycans from <i>Cryptococcus neoformans</i> during co-infection. <i>Scientific Reports</i> , 2016, 6, 21765.	3.3	26
46	Lipid droplet levels vary heterogeneously in response to simulated gastrointestinal stresses in different probiotic <i>Saccharomyces cerevisiae</i> strains. <i>Journal of Functional Foods</i> , 2016, 21, 193-200.	3.4	8
47	The Einstein-Brazil Fogarty: A decade of synergy. <i>Brazilian Journal of Microbiology</i> , 2015, 46, 945-955.	2.0	2
48	Identification of a New Class of Antifungals Targeting the Synthesis of Fungal Sphingolipids. <i>MBio</i> , 2015, 6, e00647.	4.1	124
49	Probiotic <i>Saccharomyces cerevisiae</i> strains as biotherapeutic tools: is there room for improvement?. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 6563-6570.	3.6	74
50	Extracellular vesicle-mediated export of fungal RNA. <i>Scientific Reports</i> , 2015, 5, 7763.	3.3	185
51	Compositional and immunobiological analyses of extracellular vesicles released by <i>Candida albicans</i> . <i>Cellular Microbiology</i> , 2015, 17, 389-407.	2.1	242
52	Traveling into Outer Space: Unanswered Questions about Fungal Extracellular Vesicles. <i>PLoS Pathogens</i> , 2015, 11, e1005240.	4.7	63
53	Synthesis and Biological Properties of Fungal Glucosylceramide. <i>PLoS Pathogens</i> , 2014, 10, e1003832.	4.7	96
54	The impact of proteomics on the understanding of functions and biogenesis of fungal extracellular vesicles. <i>Journal of Proteomics</i> , 2014, 97, 177-186.	2.4	109

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55	Use of a stainless steel washer platform to study <i>Acinetobacter baumannii</i> adhesion and biofilm formation on abiotic surfaces. <i>Microbiology (United Kingdom)</i> , 2013, 159, 2594-2604.	1.8	31
56	Vesicular mechanisms of traffic of fungal molecules to the extracellular space. <i>Current Opinion in Microbiology</i> , 2013, 16, 414-420.	5.1	74
57	Binding of the wheat germ lectin to <i>Cryptococcus neoformans</i> chitoooligomers affects multiple mechanisms required for fungal pathogenesis. <i>Fungal Genetics and Biology</i> , 2013, 60, 64-73.	2.1	31
58	Definition of Molecular Determinants of Prostate Cancer Cell Bone Extravasation. <i>Cancer Research</i> , 2013, 73, 942-952.	0.9	61
59	Antibody Binding to <i>Cryptococcus neoformans</i> Impairs Budding by Altering Capsular Mechanical Properties. <i>Journal of Immunology</i> , 2013, 190, 317-323.	0.8	36
60	Inhibition of <i>Candida parapsilosis</i> Fatty Acid Synthase (Fas2) Induces Mitochondrial Cell Death in Serum. <i>PLoS Pathogens</i> , 2012, 8, e1002879.	4.7	9
61	Chitin-Like Molecules Associate with <i>Cryptococcus neoformans</i> Glucuronoxylomannan To Form a Glycan Complex with Previously Unknown Properties. <i>Eukaryotic Cell</i> , 2012, 11, 1086-1094.	3.4	28
62	A <i>Paracoccidioides brasiliensis</i> glycan shares serologic and functional properties with cryptococcal glucuronoxylomannan. <i>Fungal Genetics and Biology</i> , 2012, 49, 943-954.	2.1	22
63	In good company: association between fungal glycans generates molecular complexes with unique functions. <i>Frontiers in Microbiology</i> , 2012, 3, 249.	3.5	14
64	The plant defensin RsAFP2 induces cell wall stress, septin mislocalization and accumulation of ceramides in <i>Candida albicans</i> . <i>Molecular Microbiology</i> , 2012, 84, 166-180.	2.5	123
65	Capsules from Pathogenic and Non-Pathogenic <i>Cryptococcus</i> spp. Manifest Significant Differences in Structure and Ability to Protect against Phagocytic Cells. <i>PLoS ONE</i> , 2012, 7, e29561.	2.5	61
66	Vesicular transport systems in fungi. <i>Future Microbiology</i> , 2011, 6, 1371-1381.	2.0	60
67	The GATA-type transcriptional activator Gat1 regulates nitrogen uptake and metabolism in the human pathogen <i>Cryptococcus neoformans</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 192-199.	2.1	42
68	Gangliosides expressed on breast cancer cells are E-selectin ligands. <i>Biochemical and Biophysical Research Communications</i> , 2011, 406, 423-429.	2.1	40
69	Fungal Polysaccharides: Biological Activity Beyond the Usual Structural Properties. <i>Frontiers in Microbiology</i> , 2011, 2, 171.	3.5	28
70	Fungal Glucosylceramides: From Structural Components to Biologically Active Targets of New Antimicrobials. <i>Frontiers in Microbiology</i> , 2011, 2, 212.	3.5	54
71	<i>Histoplasma capsulatum</i> Heat-Shock 60 Orchestrates the Adaptation of the Fungus to Temperature Stress. <i>PLoS ONE</i> , 2011, 6, e14660.	2.5	42
72	Role for Golgi reassembly and stacking protein (GRASP) in polysaccharide secretion and fungal virulence. <i>Molecular Microbiology</i> , 2011, 81, 206-218.	2.5	78

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73	Glucuronoxylomannan from <i>Cryptococcus neoformans</i> Down-regulates the Enzyme 6-Phosphofructo-1-kinase of Macrophages. <i>Journal of Biological Chemistry</i> , 2011, 286, 14820-14829.	3.4	11
74	Agglutination of <i>Histoplasma capsulatum</i> by IgG Monoclonal Antibodies against Hsp60 Impacts Macrophage Effector Functions. <i>Infection and Immunity</i> , 2011, 79, 918-927.	2.2	31
75	Chronological Aging Is Associated with Biophysical and Chemical Changes in the Capsule of <i>Cryptococcus neoformans</i> . <i>Infection and Immunity</i> , 2011, 79, 4990-5000.	2.2	45
76	Abstract 1547: Characterization of receptor-ligand interactions between head and neck circulating tumor cells and E-selectin. , 2011, , .		0
77	Biochemical characterization of an ecto-ATP diphosphohydrolase activity in <i>Candida parapsilosis</i> and its possible role in adenosine acquisition and pathogenesis. <i>FEMS Yeast Research</i> , 2010, 10, 735-746.	2.3	16
78	<i>Cryptococcus neoformans</i> responds to mannitol by increasing capsule size in vitro and in vivo. <i>Cellular Microbiology</i> , 2010, 12, 740-753.	2.1	47
79	The Vacuolar Ca <sup>2+</sup> Exchanger Vcx1 Is Involved in Calcineurin-Dependent Ca <sup>2+</sup> Tolerance and Virulence in <i>Cryptococcus neoformans</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1798-1805.	3.4	44
80	Immunomodulatory Effects of Serotype B Glucuronoxylomannan from <i>Cryptococcus gattii</i> Correlate with Polysaccharide Diameter. <i>Infection and Immunity</i> , 2010, 78, 3861-3870.	2.2	73
81	Extracellular Vesicles from <i>Cryptococcus neoformans</i> Modulate Macrophage Functions. <i>Infection and Immunity</i> , 2010, 78, 1601-1609.	2.2	238
82	Biogenesis of extracellular vesicles in yeast. <i>Communicative and Integrative Biology</i> , 2010, 3, 533-535.	1.4	41
83	Characterization of Yeast Extracellular Vesicles: Evidence for the Participation of Different Pathways of Cellular Traffic in Vesicle Biogenesis. <i>PLoS ONE</i> , 2010, 5, e11113.	2.5	215
84	The still obscure attributes of cryptococcal glucuronoxylomannan. <i>Medical Mycology</i> , 2009, 47, 783-788.	0.7	20
85	Role for Chitin and Chitoooligomers in the Capsular Architecture of <i>Cryptococcus neoformans</i> . <i>Eukaryotic Cell</i> , 2009, 8, 1543-1553.	3.4	54
86	Structural and functional properties of the <i>Trichosporon asahii</i> glucuronoxylomannan. <i>Fungal Genetics and Biology</i> , 2009, 46, 496-505.	2.1	49
87	<i>Cryptococcus neoformans</i> cryoultramicrotomy and vesicle fractionation reveals an intimate association between membrane lipids and glucuronoxylomannan. <i>Fungal Genetics and Biology</i> , 2009, 46, 956-963.	2.1	59
88	The Elastic Properties of the <i>Cryptococcus neoformans</i> Capsule. <i>Biophysical Journal</i> , 2009, 97, 937-945.	0.5	38
89	Identification of iGb3 and iGb4 in melanoma B16F10-Nex2 cells and the iNKT cell-mediated antitumor effect of dendritic cells primed with iGb3. <i>Molecular Cancer</i> , 2009, 8, 116.	19.2	15
90	Capsule of <i>Cryptococcus neoformans</i> grows by enlargement of polysaccharide molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1228-1233.	7.1	94

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91	Effective Topical Treatment of Subcutaneous Murine B16F10-Nex2 Melanoma By the Antimicrobial Peptide Gomesin. <i>Neoplasia</i> , 2008, 10, 61-68.	5.3	85
92	Extracellular Vesicles Produced by <i>Cryptococcus neoformans</i> Contain Protein Components Associated with Virulence. <i>Eukaryotic Cell</i> , 2008, 7, 58-67.	3.4	491
93	<i>Cryptococcus neoformans</i> Capsular Polysaccharide and Exopolysaccharide Fractions Manifest Physical, Chemical, and Antigenic Differences. <i>Eukaryotic Cell</i> , 2008, 7, 319-327.	3.4	104
94	A role for vesicular transport of macromolecules across cell walls in fungal pathogenesis. <i>Communicative and Integrative Biology</i> , 2008, 1, 37-39.	1.4	49
95	In Vitro Activity of the Antifungal Plant Defensin RsAFP2 against <i>Candida</i> Isolates and Its In Vivo Efficacy in Prophylactic Murine Models of Candidiasis. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 4522-4525.	3.2	79
96	E-selectin receptors on human leukocytes. <i>Blood</i> , 2008, 112, 3744-3752.	1.4	131
97	Vesicular Trans-Cell Wall Transport in Fungi: A Mechanism for the Delivery of Virulence-Associated Macromolecules?. <i>Lipid Insights</i> , 2008, 2, LPI.S1000.	1.0	96
98	Sophisticated Functions for a Simple Molecule: The Role of Glucosylceramides in Fungal Cells. <i>Lipid Insights</i> , 2008, 2, LPI.S1014.	1.0	4
99	Monoclonal Antibody to Fungal Glucosylceramide Protects Mice against Lethal <i>Cryptococcus neoformans</i> Infection. <i>Vaccine Journal</i> , 2007, 14, 1372-1376.	3.1	74
100	Binding of Glucuronoxylomannan to the CD14 Receptor in Human A549 Alveolar Cells Induces Interleukin-8 Production. <i>Vaccine Journal</i> , 2007, 14, 94-98.	3.1	30
101	Self-Aggregation of <i>Cryptococcus neoformans</i> Capsular Glucuronoxylomannan Is Dependent on Divalent Cations. <i>Eukaryotic Cell</i> , 2007, 6, 1400-1410.	3.4	135
102	Vesicular Polysaccharide Export in <i>Cryptococcus neoformans</i> Is a Eukaryotic Solution to the Problem of Fungal Trans-Cell Wall Transport. <i>Eukaryotic Cell</i> , 2007, 6, 48-59.	3.4	454
103	An ectophosphatase activity in <i>Candida parapsilosis</i> influences the interaction of fungi with epithelial cells. <i>FEMS Yeast Research</i> , 2007, 7, 621-628.	2.3	33
104	Gomesin, a peptide produced by the spider <i>Acanthoscurria gomesiana</i> , is a potent anticryptococcal agent that acts in synergism with fluconazole. <i>FEMS Microbiology Letters</i> , 2007, 274, 279-286.	1.8	47
105	Biology and pathogenesis of <i>Fonsecaea pedrosoi</i> , the major etiologic agent of chromoblastomycosis. <i>FEMS Microbiology Reviews</i> , 2007, 31, 570-591.	8.6	95
106	An ectophosphatase activity in <i>Cryptococcus neoformans</i> . <i>FEMS Yeast Research</i> , 2006, 6, 1010-1017.	2.3	38
107	Glucuronoxylomannan-mediated interaction of <i>Cryptococcus neoformans</i> with human alveolar cells results in fungal internalization and host cell damage. <i>Microbes and Infection</i> , 2006, 8, 493-502.	1.9	58
108	The multitude of targets for the immune system and drug therapy in the fungal cell wall. <i>Microbes and Infection</i> , 2005, 7, 789-798.	1.9	80

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109	Exposure of Human Leukemic Cells to Direct Electric Current: Generation of Toxic Compounds Inducing Cell Death by Different Mechanisms. <i>Cell Biochemistry and Biophysics</i> , 2005, 42, 061-074.	1.8	26
110	Structure, Cellular Distribution, Antigenicity, and Biological Functions of <i>Fonsecaea pedrosoi</i> Ceramide Monohexosides. <i>Infection and Immunity</i> , 2005, 73, 7860-7868.	2.2	49
111	Membrane redistribution of gangliosides and glycosylphosphatidylinositol-anchored proteins in brain tissue sections under conditions of lipid raft isolation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1686, 200-208.	2.4	57
112	A monoclonal antibody to glucosylceramide inhibits the growth of <i>Fonsecaea pedrosoi</i> and enhances the antifungal action of mouse macrophages. <i>Microbes and Infection</i> , 2004, 6, 657-665.	1.9	64
113	Intact cell adhesion to glycan microarrays. <i>Glycobiology</i> , 2003, 14, 197-203.	2.5	109
114	Anti-ganglioside antibodies bind with enhanced affinity to gangliosides containing very long chain fatty acids. <i>Neurochemical Research</i> , 2002, 27, 847-855.	3.3	31
115	The still obscure attributes of cryptococcal glucuronoxylomannan. <i>Medical Mycology</i> , 0, , 1-7.	0.7	2