Emanuele Papini

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Molecular characterization of the 128-kDa immunodominant antigen of Helicobacter pylori associated with cytotoxicity and duodenal ulcer.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5791-5795.	7.1	1,221
2	Formation of anion-selective channels in the cell plasma membrane by the toxin VacA of Helicobacter pylori is required for its biological activity. EMBO Journal, 1999, 18, 5517-5527.	7.8	240
3	Cellular vacuoles induced by Helicobacter pylori originate from late endosomal compartments.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9720-9724.	7.1	232
4	Selective increase of the permeability of polarized epithelial cell monolayers by Helicobacter pylori vacuolating toxin.. Journal of Clinical Investigation, 1998, 102, 813-820.	8.2	221
5	Bacterial protein toxins penetrate cells via a four-step mechanism. FEBS Letters, 1994, 346, 92-98.	2.8	211
6	The small GTP binding protein rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. EMBO Journal, 1997, 16, 15-24.	7.8	203
7	Low pH Activates the Vacuolating Toxin of Helicobacter pylori, Which Becomes Acid and Pepsin Resistant. Journal of Biological Chemistry, 1995, 270, 23937-23940.	3.4	197
8	The m2 form of the Helicobacter pylori cytotoxin has cell type-specific vacuolating activity. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10212-10217.	7.1	184
9	Helicobacter pylori Vacuolating Toxin Forms Anion-Selective Channels in Planar Lipid Bilayers: Possible Implications for the Mechanism of Cellular Vacuolation. Biophysical Journal, 1999, 76, 1401-1409.	0.5	145
10	Bafilomycin A1 inhibits Helicobacter pylori-induced vacuolization of HeLa cells. Molecular Microbiology, 1993, 7, 323-327.	2.5	134
11	Helicobacter pylori toxin VacA induces vacuole formation by acting in the cell cytosol. Molecular Microbiology, 1997, 26, 665-674.	2.5	128
12	An intact interchain disulfide bond is required for the neurotoxicity of tetanus toxin. Infection and Immunity, 1990, 58, 4136-4141.	2.2	114
13	Effect of Helicobacter pylori Vacuolating Toxin on Maturation and Extracellular Release of Procathepsin D and on Epidermal Growth Factor Degradation. Journal of Biological Chemistry, 1997, 272, 25022-25028.	3.4	111
14	Cell penetration of diphtheria toxin. Reduction of the interchain disulfide bridge is the rate-limiting step of translocation in the cytosol.. Journal of Biological Chemistry, 1993, 268, 1567-1574.	3.4	106
15	Identification of the <i>Helicobacter pylori</i> VacA Toxin Domain Active in the Cell Cytosol. Infection and Immunity, 1998, 66, 6014-6016.	2.2	102
16	Helicobacter pylori cytotoxin: importance of native conformation for induction of neutralizing antibodies. Infection and Immunity, 1995, 63, 4476-4480.	2.2	96
17	In search of the Helicobacter pylori VacA mechanism of action. Toxicon, 2001, 39, 1757-1767.	1.6	86
18	C1q-Mediated Complement Activation and C3 Opsonization Trigger Recognition of Stealth Poly(2-methyl-2-oxazoline)-Coated Silica Nanoparticles by Human Phagocytes. ACS Nano, 2018, 12, 5834-5847.	14.6	86

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19	Plant polyphenols inhibit VacA, a toxin secreted by the gastric pathogenHelicobacter pylori. FEBS Letters, 2003, 543, 184-189.	2.8	84
20	Cell penetration of diphtheria toxin. Reduction of the interchain disulfide bridge is the rate-limiting step of translocation in the cytosol. Journal of Biological Chemistry, 1993, 268, 1567-74.	3.4	83
21	Opsonins and Dysopsonins of Nanoparticles: Facts, Concepts, and Methodological Guidelines. Frontiers in Immunology, 2020, 11, 567365.	4.8	80
22	On the membrane translocation of diphtheria toxin: at low pH the toxin induces ion channels on cells.. EMBO Journal, 1988, 7, 3353-3359.	7.8	79
23	The Helicobacter pylori VacA toxin is a urea permease that promotes urea diffusion across epithelia. Journal of Clinical Investigation, 2001, 108, 929-937.	8.2	78
24	3D imaging of the 58 kda cell binding subunit of the Helicobacter pylori cytotoxin. Journal of Molecular Biology, 1999, 290, 459-470.	4.2	77
25	Protein kinase C phosphorylates a component of NADPH oxidase of neutrophils. FEBS Letters, 1985, 190, 204-208.	2.8	69
26	Lipid interaction of diphtheria toxin and mutants with altered fragment B. 2. Hydrophobic photolabelling and cell intoxication. FEBS Journal, 1987, 169, 637-644.	0.2	68
27	Helicobacter pylori VacA cytotoxin associated with the bacteria increases epithelial permeability independently of its vacuolating activity. Microbiology (United Kingdom), 1999, 145, 2043-2050.	1.8	68
28	Inhibition of the vacuolating and anion channel activities of the VacA toxin ofHelicobacter pylori. FEBS Letters, 1999, 460, 221-225.	2.8	67
29	Towards deciphering the Helicobacter pylori cytotoxin. Molecular Microbiology, 1999, 34, 197-204.	2.5	65
30	<i>In vitro</i> and <i>in vivo</i> characterization of temoporfin-loaded PEGylated PLGA nanoparticles for use in photodynamic therapy. Nanomedicine, 2012, 7, 663-677.	3.3	65
31	Active-Site Mutations of the Diphtheria Toxin Catalytic Domain: Role of Histidine-21 in Nicotinamide Adenine Dinucleotide Binding and ADP-Ribosylation of Elongation Factor 2. Biochemistry, 1994, 33, 5155-5161.	2.5	61
32	Helicobacter pyloriNeutrophilâ€Activating Protein Stimulates Tissue Factor and Plasminogen Activator Inhibitorâ€“2 Production by Human Blood Mononuclear Cells. Journal of Infectious Diseases, 2001, 183, 1055-1062.	4.0	60
33	Histidine 21 Is at the NAD+ Binding Site of Diphtheria Toxin. Journal of Biological Chemistry, 1989, 264, 12385-12388.	3.4	57
34	Lipid Interaction of the 37-kDa and 58-kDa Fragments of the Helicobacter Pylori Cytotoxin. FEBS Journal, 1995, 234, 947-952.	0.2	56
35	Highly PEGylated silica nanoparticles: â€œready to useâ€• stealth functional nanocarriers. Journal of Materials Chemistry, 2010, 20, 2780.	6.7	53
36	Molecular and cellular activities ofHelicobacter pyloripathogenic factors. FEBS Letters, 1999, 452, 16-21.	2.8	50

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37	Procoagulant properties of bare and highly PEGylated vinyl-modified silica nanoparticles. Nanomedicine, 2010, 5, 881-896.	3.3	49
38	The functional dissection of the plasma corona of SiO₂-NPs spots histidine rich glycoprotein as a major player able to hamper nanoparticle capture by macrophages. Nanoscale, 2015, 7, 17710-17728.	5.6	49
39	Composition of partially purified NADPH oxidase from pig neutrophils. Biochemical Journal, 1984, 223, 639-648.	3.7	48
40	Histidine 21 is at the NAD+ binding site of diphtheria toxin. Journal of Biological Chemistry, 1989, 264, 12385-8.	3.4	47
41	Intranuclear delivery of an antiviral peptide mediated by the B subunit of Escherichia coli heat-labile enterotoxin. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5221-5226.	7.1	46
42	Stem-cell therapy in an experimental model of pulmonary hypertension and right heart failure: Role of paracrine and neurohormonal milieu in the remodeling process. Journal of Heart and Lung Transplantation, 2011, 30, 1281-1293.	0.6	46
43	Dissociation coefficients of protein adsorption to nanoparticles as quantitative metrics for description of the protein corona: A comparison of experimental techniques and methodological relevance. International Journal of Biochemistry and Cell Biology, 2016, 75, 148-161.	2.8	46
44	The cytotoxic activity of <i>Bacillus anthracis</i> lethal factor is inhibited by leukotriene A4 hydrolase and metallopeptidase inhibitors. Biochemical Journal, 1996, 320, 687-691.	3.7	45
45	The membrane expression of <i>Neisseria meningitidis</i> adhesin A (NadA) increases the proimmune effects of <i>MenB</i> OMVs on human macrophages, compared with NadAâ€“ OMVs, without further stimulating their proinflammatory activity on circulating monocytes. Journal of Leukocyte Biology, 2009, 86, 143-153.	3.3	45
46	Vesicle-associated Membrane Protein (VAMP)/Synaptobrevin-2 Is Associated with Dense Core Secretory Granules in PC12 Neuroendocrine Cells. Journal of Biological Chemistry, 1995, 270, 1332-1336.	3.4	44
47	The vacuolar ATPase proton pump is present on intracellular vacuoles induced by Helicobacter pylori. Journal of Medical Microbiology, 1996, 45, 84-89.	1.8	43
48	Water-Soluble Peptide-Coated Nanoparticles: Control of the Helix Structure and Enhanced Differential Binding to Immune Cells. Journal of the American Chemical Society, 2011, 133, 8-11.	13.7	42
49	Complement activation by drug carriers and particulate pharmaceuticals: Principles, challenges and opportunities. Advanced Drug Delivery Reviews, 2020, 157, 83-95.	13.7	39
50	Lipid interaction of diphtheria toxin and mutants with altered fragment B. 1. Liposome aggregation and fusion. FEBS Journal, 1987, 169, 629-635.	0.2	38
51	Human monocytes/macrophages are a target of Neisseria meningitidis Adhesin A (NadA). Journal of Leukocyte Biology, 2008, 83, 1100-1110.	3.3	37
52	Mechanism of Production of Toxic Oxygen Radicals by Granulocytes and Macrophages and their Function in the Inflammatory Process. Pathology Research and Practice, 1985, 180, 136-142.	2.3	36
53	Independence with respect to Ca2+ changes of the neutrophil respiratory and secretory response to exogenous phospholipase C and possible involvement of diacylglycerol and protein kinase C. Biochimica Et Biophysica Acta - Molecular Cell Research, 1985, 844, 81-90.	4.1	35
54	Substitution of the Arginine/Leucine Residues in Apidaecin Ib with Peptoid Residues: Effect on Antimicrobial Activity, Cellular Uptake, and Proteolytic Degradation. Journal of Medicinal Chemistry, 2009, 52, 5197-5206.	6.4	35

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55	Studies on the Nature and Activation of O2âˆ’-forming NADPH Oxidase of Leukocytes. Identification of a Phosphorylated Component of the Active Enzyme. Free Radical Research Communications, 1985, 1, 11-29.	1.8	33
56	Diphtheria toxin and its mutantcrm197 differ in their interaction with lipids. FEBS Letters, 1987, 215, 73-78.	2.8	33
57	Cytochrome c oxidase from the slime mold Dictyostelium discoideum: purification and characterization. Biochemistry, 1985, 24, 7845-7852.	2.5	31
58	Cell vacuolization induced by Helicobacter pylori VacA toxin: cell line sensitivity and quantitative estimation. Toxicology Letters, 1998, 99, 109-115.	0.8	31
59	Vacuolation induced by VacA toxin ofHelicobacter pylorirequires the intracellular accumulation of membrane permeant bases, Clâˆ’and water. FEBS Letters, 2001, 508, 479-483.	2.8	30
60	Targeted delivery of photosensitizers: efficacy and selectivity issues revealed by multifunctional ORMOSIL nanovectors in cellular systems. Nanoscale, 2013, 5, 6106.	5.6	30
61	Tyrosine 65 is photolabeled by 8-azidoadenine and 8-azidoadenosine at the NAD binding site of diphtheria toxin. Journal of Biological Chemistry, 1991, 266, 2494-2498.	3.4	29
62	Cell vacuolization induced byHelicobacter pylori: Inhibition by bafilomycins A1, B1, C1 and D. FEMS Microbiology Letters, 1993, 113, 155-159.	1.8	28
63	<i>Helicobacter pylori</i>cytotoxin VacA increases alkaline secretion in gastric epithelial cells. American Journal of Physiology - Renal Physiology, 2001, 281, G1440-G1448.	3.4	27
64	Blockers of VacA Provide Insights into the Structure of the Pore. Biophysical Journal, 2000, 79, 863-873.	0.5	26
65	Proinflammatory effects of bare and PEGylated ORMOSIL-, PLGA- and SUV-NPs on monocytes and PMNs and their modulation by f-MLP. Nanomedicine, 2011, 6, 1027-1046.	3.3	26
66	Self-Assembled Biocompatible Fluorescent Nanoparticles for Bioimaging. Frontiers in Chemistry, 2019, 7, 168.	3.6	26
67	IFN-Î³ and R-848 Dependent Activation of Human Monocyte-Derived Dendritic Cells by <i>Neisseria meningitidis</i> Adhesin A. Journal of Immunology, 2007, 179, 3904-3916.	0.8	25
68	The Catalytic Subunit of Herpes Simplex Virus Type 1 DNA Polymerase Contains a Nuclear Localization Signal in the UL42-Binding Region. Virology, 2000, 273, 139-148.	2.4	23
69	Variations of the corona HDL:albumin ratio determine distinct effects of amorphous SiO₂ nanoparticles on monocytes and macrophages in serum. Nanomedicine, 2014, 9, 2481-2497.	3.3	23
70	Partial purification of the superoxide-generating system of macrophages. Possible association of the NADPH oxidase activity with a low-potential (âˆ’247 mV) cytochrome b. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 810, 164-173.	1.0	22
71	Mapping of the<i>Neisseria meningitidis</i>NadA Cell-Binding Site: Relevance of Predicted Î±-Helices in the NH₂-Terminal and Dimeric Coiled-Coil Regions. Journal of Bacteriology, 2011, 193, 107-115.	2.2	22
72	Poly(lipoic acid)-Based Nanoparticles as Self-Organized, Biocompatible, and Corona-Free Nanovectors. Biomacromolecules, 2021, 22, 467-480.	5.4	22

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73	On the membrane translocation of diphtheria toxin: at low pH the toxin induces ion channels on cells. EMBO Journal, 1988, 7, 3353-9.	7.8	22
74	Histidine-21 is involved in diphtheria toxin NAD+ binding. Toxicon, 1990, 28, 631-635.	1.6	21
75	The Soluble Recombinant Neisseria meningitidis Adhesin NadAÎ”351â€“405 Stimulates Human Monocytes by Binding to Extracellular Hsp90. PLoS ONE, 2011, 6, e25089.	2.5	21
76	Ion channel and membrane translocation of diphtheria toxin. FEMS Microbiology Letters, 1992, 105, 101-111.	1.8	20
77	The Honeybee Antimicrobial Peptide Apidaecin Differentially Immunomodulates Human Macrophages, Monocytes and Dendritic Cells. Journal of Innate Immunity, 2011, 3, 614-622.	3.8	19
78	The peculiar N- and C-termini of trichogin GA IV are needed for membrane interaction and human cell death induction at doses lacking antibiotic activity. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 134-144.	2.6	19
79	The contribution of stem cell therapy to skeletal muscle remodeling in heart failure. International Journal of Cardiology, 2013, 168, 2014-2021.	1.7	18
80	Catastrophic inflammatory death of monocytes and macrophages by overtaking of a critical dose of endocytosed synthetic amorphous silica nanoparticles/serum protein complexes. Nanomedicine, 2013, 8, 1101-1126.	3.3	18
81	NADPH oxidase of neutrophils forms superoxide anion but does not reduce cytochromecand dichlorophenolindophenol. FEBS Letters, 1984, 170, 157-161.	2.8	17
82	Insertion of Diphtheria Toxin in Lipid Bilayers Studied by Spin Label ESR. Biochemistry, 1995, 34, 11561-11567.	2.5	17
83	Bacterial protein toxins and cell vesicle trafficking. Experientia, 1996, 52, 1026-1032.	1.2	17
84	Effects of herpes simplex virus type 1 infection on the plasma membrane and related functions of HeLa S3 cells. Journal of General Virology, 1994, 75, 3337-3344.	2.9	16
85	Characterisation of a monoclonal antibody and its use to purify the cytotoxin ofHelicobacter pylori. FEMS Microbiology Letters, 1998, 165, 79-84.	1.8	16
86	How the Loop and Middle Regions Influence the Properties of Helicobacter pylori VacA Channels. Biophysical Journal, 2001, 81, 3204-3215.	0.5	15
87	Action site and cellular effects of cytotoxin VacA produced byHelicobacter pylori. Folia Microbiologica, 1998, 43, 279-284.	2.3	14
88	Vacuolating Cytotoxin. , 0, , 97-110.		13
89	Presence of cytochromebâ˜245in NADPH oxidase preparations from human neutrophils. FEBS Letters, 1986, 199, 159-163.	2.8	12
90	TPA and butyrate increase cell sensitivity to the vacuolating toxin ofHelicobacter pylori. FEBS Letters, 1998, 436, 218-222.	2.8	12

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91	Combined Action of Human Commensal Bacteria and Amorphous Silica Nanoparticles on the Viability and Immune Responses of Dendritic Cells. Vaccine Journal, 2017, 24, .	3.1	10
92	Cell penetration of bacterial protein toxins. Trends in Microbiology, 1995, 3, 165-167.	7.7	8
93	Respiratory Response of Phagocytes: Terminal NADPH Oxidase and the Mechanisms of its Activation. Novartis Foundation Symposium, 1986, 118, 172-195.	1.1	8
94	Helicobacter pylori Vacuolating Cytotoxin: Cell Intoxication and Anion-Specific Channel Activity. Current Topics in Microbiology and Immunology, 2001, 257, 113-129.	1.1	8
95	Tumor-facing hepatocytes significantly contribute to mild hyperthermia-induced targeting of rat liver metastasis by PLGA-NPs. International Journal of Pharmaceutics, 2019, 566, 541-548.	5.2	7
96	Determination of diphtheria toxin neutralizing antibody titers with a cell protein synthesis inhibition assay. Medical Microbiology and Immunology, 1991, 180, 29-35.	4.8	5
97	Comparison of bactericidal and cytotoxic activities of trichogin analogs. Data in Brief, 2016, 6, 359-367.	1.0	5
98	Does tetanus toxin have a sequence homology with the haemagglutinin of influenza virus?. Toxicon, 1987, 25, 911-912.	1.6	3
99	The sensitivity of cystic fibrosis cells to diphtheria toxin. Toxicon, 1993, 31, 359-362.	1.6	3
100	Formyl-Peptide Receptor Agonists and Amorphous SiO2-NPs Synergistically and Selectively Increase the Inflammatory Responses of Human Monocytes and PMNs. Nanobiomedicine, 2016, 3, 2.	5.7	3
101	Nanoparticles Based on Cross-Linked Poly(Lipoic Acid) Protect Macrophages and Cardiomyocytes from Oxidative Stress and Ischemia Reperfusion Injury. Antioxidants, 2022, 11, 907.	5.1	3
102	Form Matters: Stable Helical Foldamers Preferentially Target Human Monocytes and Granulocytes. ChemMedChem, 2017, 12, 337-345.	3.2	2
103	Characterization of phagocyte NADPH oxidase. , 1985, , 423-433.		2
104	Ion channel and membrane translocation of diphtheria toxin. FEMS Microbiology Letters, 1992, 105, 101-111.	1.8	1
105	Cell vacuolization induced by Helicobacter pylori: Inhibition by bafilomycins A1, B1, C1 and D. FEMS Microbiology Letters, 1993, 113, 155-159.	1.8	1
106	Characterisation of a monoclonal antibody and its use to purify the cytotoxin of Helicobacter pylori. FEMS Microbiology Letters, 1998, 165, 79-84.	1.8	1
107	Translocation of bacterial protein toxins across membranes. , 1995, , 75-93.		1
108	Heparin-Binding Epidermal Growth Factorâ€“Like Growth Factor/Diphtheria Toxin Receptor Expression by Acute Myeloid Leukemia Cells. Blood, 1999, 93, 1715-1723.	1.4	1

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109	Helicobacter pylori vacuolating toxin VacA. Cellular and Molecular Mechanisms of Toxin Action, 2003, , 60-75.	0.0	0
110	Membrane Protein Labelling with Photoreactive Phospholipid Analogues. , 1989, , 43-58.		0
111	On the Cellular Mechanism of Action of Diphtheria Toxin. , 1989, , 115-124.		0