

Francesco Peri

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	3,553 citations	32 h-index	57 g-index
120 ext. papers	4,066 ext. citations	6 avg, IF	5.64 L-index

#	Paper	IF	Citations
102	The Role of TLR4 in Neural Stem Cells Mediated Neurogenesis and Neuroinflammation. <i>Agents and Actions Supplements</i> , 2021 , 129-141	0.2	
101	Synthetic glycolipid-based TLR4 antagonists negatively regulate TRIF-dependent TLR4 signalling in human macrophages. <i>Innate Immunity</i> , 2021 , 27, 275-284	2.7	2
100	Electrospinning for drug delivery applications: A review. <i>Journal of Controlled Release</i> , 2021 , 334, 463-484	4.7	107
99	The Multi-Level Mechanism of Action of a Pan-Ras Inhibitor Explains its Antiproliferative Activity on Cetuximab-Resistant Cancer Cells. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 625979	5.6	1
98	Synthetic Glycolipids as Molecular Vaccine Adjuvants: Mechanism of Action in Human Cells and In Vivo Activity. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 12261-12272	8.3	2
97	A Highly Sensitive Luminescent Biosensor for the Microvolumetric Detection of the Siderophore Pyochelin. <i>ACS Sensors</i> , 2021 , 6, 3273-3283	9.2	1
96	Developing New Anti-Tuberculosis Vaccines: Focus on Adjuvants. <i>Cells</i> , 2021 , 10,	7.9	8
95	Increasing the Chemical Variety of Small-Molecule-Based TLR4 Modulators: An Overview. <i>Frontiers in Immunology</i> , 2020 , 11, 1210	8.4	16
94	Effect of chemical modulation of toll-like receptor 4 in an animal model of ulcerative colitis. <i>European Journal of Clinical Pharmacology</i> , 2020 , 76, 409-418	2.8	9
93	Microbiome studies in the medical sciences and the need for closer multidisciplinary interplay. <i>Science Signaling</i> , 2020 , 13,	8.8	3
92	Novel carboxylate-based glycolipids: TLR4 antagonism, MD-2 binding and self-assembly properties. <i>Scientific Reports</i> , 2019 , 9, 919	4.9	16
91	Synthesis of the New Cyanine-Labeled Bacterial Lipooligosaccharides for Intracellular Imaging and in Vitro Microscopy Studies. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1649-1657	6.3	8
90	Structural characterization of aerogels derived from enzymatically oxidized galactomannans of fenugreek, sesbania and guar gums. <i>Carbohydrate Polymers</i> , 2019 , 207, 510-520	10.3	11
89	Structure-Activity Relationship in Monosaccharide-Based Toll-Like Receptor 4 (TLR4) Antagonists. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 2895-2909	8.3	32
88	Toll-like receptor 4 modulation influences human neural stem cell proliferation and differentiation. <i>Cell Death and Disease</i> , 2018 , 9, 280	9.8	27
87	Recent advances on Toll-like receptor 4 modulation: new therapeutic perspectives. <i>Future Medicinal Chemistry</i> , 2018 , 10, 461-476	4.1	22
86	Co-administration of Antimicrobial Peptides Enhances Toll-like Receptor 4 Antagonist Activity of a Synthetic Glycolipid. <i>ChemMedChem</i> , 2018 , 13, 280-287	3.7	4

85	Toll-like Receptor 4-Induced Glycolytic Burst in Human Monocyte-Derived Dendritic Cells Results from p38-Dependent Stabilization of HIF-1 α and Increased Hexokinase II Expression. <i>Journal of Immunology</i> , 2018 , 201, 1510-1521	5.3	31
84	Structure and inflammatory activity of the LPS isolated from <i>Acetobacter pasteurianus</i> CIP103108. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 1027-1035	7.9	14
83	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic Photosensitizer-Adsorbent Intermolecular Interaction. <i>ACS Energy Letters</i> , 2018 , 3, 85-91	20.1	39
82	The synthetic glycolipid-based TLR4 antagonist FP7 negatively regulates in vitro and in vivo haematopoietic and non-haematopoietic vascular TLR4 signalling. <i>Innate Immunity</i> , 2018 , 24, 411-421	2.7	10
81	TLR4 antagonist FP7 inhibits LPS-induced cytokine production and glycolytic reprogramming in dendritic cells, and protects mice from lethal influenza infection. <i>Scientific Reports</i> , 2017 , 7, 40791	4.9	86
80	Amphiphilic Guanidinocalixarenes Inhibit Lipopolysaccharide (LPS)- and Lectin-Stimulated Toll-like Receptor 4 (TLR4) Signaling. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4882-4892	8.3	26
79	How do viruses interfere with Toll-like receptor 4?. <i>Future Virology</i> , 2017 , 12, 243-246	2.4	
78	The Role of Carbohydrates in the Lipopolysaccharide (LPS)/Toll-Like Receptor 4 (TLR4) Signalling. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	77
77	TLR4 Signaling Pathway Modulators as Potential Therapeutics in Inflammation and Sepsis. <i>Vaccines</i> , 2017 , 5,	5.3	230
76	Glycolipid-based TLR4 Modulators and Fluorescent Probes: Rational Design, Synthesis, and Biological Properties. <i>Chemical Biology and Drug Design</i> , 2016 , 88, 217-29	2.9	10
75	Synthetic and natural small molecule TLR4 antagonists inhibit motoneuron death in cultures from ALS mouse model. <i>Pharmacological Research</i> , 2016 , 103, 180-7	10.2	42
74	The EuroSciCon's 2015 Innate Immunity Summit. <i>Future Virology</i> , 2016 , 11, 665-669	2.4	
73	A novel small molecule TLR4 antagonist (IAXO-102) negatively regulates non-hematopoietic toll like receptor 4 signalling and inhibits aortic aneurysms development. <i>Atherosclerosis</i> , 2015 , 242, 563-70	3.1	28
72	Chemistry of Lipid A: At the Heart of Innate Immunity. <i>Chemistry - A European Journal</i> , 2015 , 21, 477-477	4.8	0
71	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , 2015 , 21, 500-19	4.8	147
70	Molecular simplification of lipid A structure: TLR4-modulating cationic and anionic amphiphiles. <i>Molecular Immunology</i> , 2015 , 63, 153-61	4.3	23
69	Toll-like receptor 4 (TLR4) modulation by synthetic and natural compounds: an update. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 3612-22	8.3	115
68	Modulation of CD14 and TLR4/MD-2 activities by a synthetic lipid A mimetic. <i>ChemBioChem</i> , 2014 , 15, 250-8	3.8	39

67	Trehalose- and glucose-derived glycoamphiphiles: small-molecule and nanoparticle Toll-like receptor 4 (TLR4) modulators. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9105-23	8.3	23
66	Clicked and long spaced galactosyl- and lactosylcalix[4]arenes: new multivalent galectin-3 ligands. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 1672-80	2.5	14
65	Functional characterization of E. coli LptC: interaction with LPS and a synthetic ligand. <i>ChemBioChem</i> , 2014 , 15, 734-42	3.8	16
64	Multivalent glycoconjugates as anti-pathogenic agents. <i>Chemical Society Reviews</i> , 2013 , 42, 4709-27	58.5	399
63	Clustered carbohydrates in synthetic vaccines. <i>Chemical Society Reviews</i> , 2013 , 42, 4543-56	58.5	65
62	A new isoluminol reagent for chemiluminescence labeling of proteins. <i>Tetrahedron Letters</i> , 2013 , 54, 4446-4450	2	2
61	Sugar-based inhibitors of Ras activation: biological activity and identification of Ras-inhibitor binding interface. <i>The Enzymes</i> , 2013 , 33 Pt A, 95-116	2.3	2
60	Therapeutic targeting of innate immunity with Toll-like receptor 4 (TLR4) antagonists. <i>Biotechnology Advances</i> , 2012 , 30, 251-60	17.8	125
59	A synthetic lipid A mimetic modulates human TLR4 activity. <i>ChemMedChem</i> , 2012 , 7, 213-7	3.7	14
58	Metabolism of phosphatidylinositol 4-kinase IIIβ-dependent PI4P is subverted by HCV and is targeted by a 4-anilino quinazoline with antiviral activity. <i>PLoS Pathogens</i> , 2012 , 8, e1002576	7.6	95
57	Hemin and a metabolic derivative coprohemin modulate the TLR4 pathway differently through different molecular targets. <i>Innate Immunity</i> , 2011 , 17, 293-301	2.7	26
56	Modulation of Lipopolysaccharide Signalling Through TLR4 Agonists and Antagonists 2011 , 389-416		
55	Uniform Lipopolysaccharide (LPS)-Loaded Magnetic Nanoparticles for the Investigation of LPS-TLR4 Signaling. <i>Angewandte Chemie</i> , 2011 , 123, 648-652	3.6	4
54	Uniform lipopolysaccharide (LPS)-loaded magnetic nanoparticles for the investigation of LPS-TLR4 signaling. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 622-6	16.4	36
53	Binding properties and biological characterization of new sugar-derived Ras ligands. <i>MedChemComm</i> , 2011 , 2, 396	5	15
52	Synthetic molecules and functionalized nanoparticles targeting the LPS-TLR4 signaling: A new generation of immunotherapeutics. <i>Pure and Applied Chemistry</i> , 2011 , 84, 97-106	2.1	5
51	Exploring the LPS/TLR4 signal pathway with small molecules. <i>Biochemical Society Transactions</i> , 2010 , 38, 1390-5	5.1	74
50	Structure-activity studies on arylamides and arylsulfonamides Ras inhibitors. <i>Current Cancer Drug Targets</i> , 2010 , 10, 192-9	2.8	9

49	The cationic amphiphile 3,4-bis(tetradecyloxy)benzylamine inhibits LPS signaling by competing with endotoxin for CD14 binding. <i>Biochemical Pharmacology</i> , 2010 , 80, 2050-6	6	24
48	Design, synthesis, and biological evaluation of levoglucosenone-derived ras activation inhibitors. <i>ChemMedChem</i> , 2009 , 4, 524-8	3.7	25
47	First experimental identification of Ras-inhibitor binding interface using a water-soluble Ras ligand. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4217-22	2.9	34
46	Glycolipids and benzylammonium lipids as novel antisepsis agents: synthesis and biological characterization. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 1209-13	8.3	55
45	Selective cytotoxicity of a bicyclic Ras inhibitor in cancer cells expressing K-Ras(G13D). <i>Biochemical and Biophysical Research Communications</i> , 2009 , 386, 593-7	3.4	32
44	Evidence of a specific interaction between new synthetic antisepsis agents and CD14. <i>Biochemistry</i> , 2009 , 48, 12337-44	3.2	47
43	Glycoconjugates in cancer therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2008 , 8, 92-121	2.2	44
42	Glial TLR4 receptor as new target to treat neuropathic pain: efficacy of a new receptor antagonist in a model of peripheral nerve injury in mice. <i>Glia</i> , 2008 , 56, 1312-9	9	158
41	Bone morphogenic protein antagonist Dm/gremlin is a novel proangiogenic factor. <i>Blood</i> , 2007 , 109, 1834-40	2.2	105
40	Chemoselective neoglycosylation. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2007 , 61, 353-98	9.7	34
39	Glucose-derived Ras pathway inhibitors: evidence of Ras-ligand binding and Ras-GEF (Cdc25) interaction inhibition. <i>ChemBioChem</i> , 2007 , 8, 1376-9	3.8	23
38	Inhibition of lipid A stimulated activation of human dendritic cells and macrophages by amino and hydroxylamino monosaccharides. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3308-12	16.4	25
37	Inhibition of Lipid A Stimulated Activation of Human Dendritic Cells and Macrophages by Amino and Hydroxylamino Monosaccharides. <i>Angewandte Chemie</i> , 2007 , 119, 3372-3376	3.6	3
36	Novel alpha-conotoxins from <i>Conus spurius</i> and the alpha-conotoxin EI share high-affinity potentiation and low-affinity inhibition of nicotinic acetylcholine receptors. <i>FEBS Journal</i> , 2007 , 274, 3972-85	5.7	37
35	Sugar-Derived Ras Inhibitors: Group Epitope Mapping by NMR Spectroscopy and Biological Evaluation. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 3707-3720	3.2	22
34	Looking forward: a glance into the future of organic chemistry. <i>New Journal of Chemistry</i> , 2006 , 30, 823-831	8.3	9
33	Alchimies futures': compte rendu de l'expérience ESYOP. <i>Comptes Rendus Chimie</i> , 2006 , 9, 127-140	2.7	2
32	Synthesis and biological evaluation of novel lipid A antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 190-9	3.4	23

31	Bicyclic carbohydrate-derived scaffolds for combinatorial libraries. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 3349-67	3.4	23
30	Design, synthesis and biological evaluation of sugar-derived Ras inhibitors. <i>ChemBioChem</i> , 2005 , 6, 1839-48	3.4	35
29	Design and characterization of a new class of inhibitors of ras activation. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1030, 52-61	6.5	10
28	Synthesis of Imino Sugar Scaffolds for the Generation of Glycosidase Inhibitor Libraries. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 2451-2470	3.2	16
27	Synthesis and conformational analysis of novel N(OCH ₃)-linked disaccharide analogues. <i>Chemistry - A European Journal</i> , 2004 , 10, 1433-44	4.8	49
26	Chemoselective ligation in glycochemistry. <i>Chemical Communications</i> , 2004 , 623-7	5.8	62
25	Extending chemoselective ligation to sugar chemistry: convergent assembly of bioactive neoglycoconjugates. <i>Mini-Reviews in Medicinal Chemistry</i> , 2003 , 3, 651-8	3.2	17
24	Glycoconjugate and oligosaccharide mimetics by chemoselective ligation. <i>Comptes Rendus Chimie</i> , 2003 , 6, 635-644	2.7	9
23	Conformational features of a synthetic model of the first extracellular loop of the angiotensin II AT1A receptor. <i>Journal of Peptide Science</i> , 2003 , 9, 229-43	2.1	9
22	d-Glucose as a Regioselectively Addressable Scaffold for Combinatorial Chemistry on Solid Phase. <i>Journal of Carbohydrate Chemistry</i> , 2003 , 22, 57-71	1.7	16
21	Carbohydrate-Based Scaffolds for the Generation of Sortiments of Bioactive Compounds. <i>Monatshefte für Chemie</i> , 2002 , 133, 369-382	1.4	28
20	Novel Tn antigen-containing neoglycopeptides: synthesis and evaluation as anti tumor vaccines. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 1639-46	3.4	54
19	Polycyclic scaffolds from fructose. <i>Tetrahedron Letters</i> , 2002 , 43, 1355-1357	2	7
18	Solution and solid-phase chemoselective synthesis of (1-6)-amino(methoxy) di- and trisaccharide analogues. <i>Chemical Communications</i> , 2002 , 1504-5	5.8	32
17	Arabinose-derived bicyclic amino acids: synthesis, conformational analysis and construction of an α-selective RGD peptide. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002 , 638-644		14
16	Carbohydrate-Based Scaffolds for the Generation of Sortiments of Bioactive Compounds 2002 , 19-32		
15	SYNTHESIS OF IMINO-C-DISACCHARIDES RELATED TO SUCROSE ¹ . <i>Journal of Carbohydrate Chemistry</i> , 2001 , 20, 667-680	1.7	3
14	Synthesis and biological evaluation of an anticancer vaccine containing the C-glycoside analogue of the Tn epitope. <i>Bioconjugate Chemistry</i> , 2001 , 12, 325-8	6.3	34

13	Tin-mediated regioselective acylation of unprotected sugars on solid phase. <i>Tetrahedron Letters</i> , 2000 , 41, 8587-8590	2	17
12	Stereoselective synthesis of β -C-glycosides of N-acetylgalactosamine. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 295-303		24
11	Synthesis of bicyclic sugar azido acids and their incorporation in cyclic peptides. <i>Chemical Communications</i> , 2000 , 2303-2304	5.8	20
10	A new procedure for the synthesis of C-glycosides of nojirimycin. <i>Chemical Communications</i> , 2000 , 1289-1290	5.2	26
9	On the regioselectivity of the protease subtilisin towards the acylation of enantiomeric pairs of benzyl and naphthyl glycopyranosides. Part 2. <i>Tetrahedron</i> , 1999 , 55, 2045-2060	2.4	16
8	A highly convergent approach to O- and N-linked glycopeptide analogues. <i>Glycoconjugate Journal</i> , 1999 , 16, 399-404	3	12
7	Conversion of Lactose into Mimics of N-Acetylactosamine. <i>European Journal of Organic Chemistry</i> , 1999 , 1999, 3437-3440	3.2	6
6	Assembly of binding loops on aromatic templates as VCAM-1 mimetics. <i>Journal of Peptide Science</i> , 1999 , 5, 313-22	2.1	6
5	Discrimination properties of tetraamidic branched selectors. <i>Journal of Chromatography A</i> , 1998 , 802, 315-324	4.5	3
4	Chemo- and stereoselective glycosylation of hydroxylamino derivatives: A versatile approach to glycoconjugates. <i>Tetrahedron</i> , 1998 , 54, 12269-12278	2.4	141
3	Calixarenes with exo-hydroxy groups: Synthesis, crystal and molecular structure of ortho-tert-butylphenol-based calix[4]-, calix[6]- and calix[8]arenes. <i>Tetrahedron</i> , 1997 , 53, 3287-3300	2.4	12
2	Stepwise synthesis and structural characterization of calix[4]- and calix[5]arenes bearing a functionalized arm on the methylene bridge. <i>Tetrahedron</i> , 1997 , 53, 13037-13052	2.4	34
1	Solvent effect in the fragment condensation synthesis of calix[4]arenes and temperature dependent ^1H -NMR studies of new dihomomonoxacalixarenes. <i>Tetrahedron Letters</i> , 1995 , 36, 8323-8326 ²		