Francesco Peri

List of Publications by Citations

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	Multivalent glycoconjugates as anti-pathogenic agents. *Chemical Society Reviews*, **2013**, 42, 4709-27	58.5	399
101	TLR4 Signaling Pathway Modulators as Potential Therapeutics in Inflammation and Sepsis. *Vaccines*, **2017**, 5,	5.3	230
100	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. *Glia*, **2008**, 56, 1312-9	9	158
99	Chemistry of lipid A: at the heart of innate immunity. *Chemistry - A European Journal*, **2015**, 21, 500-19	4.8	147
98	Chemo- and stereoselective glycosylation of hydroxylamino derivatives: A versatile approach to glycoconjugates. *Tetrahedron*, **1998**, 54, 12269-12278	2.4	141
97	Therapeutic targeting of innate immunity with Toll-like receptor 4 (TLR4) antagonists. *Biotechnology Advances*, **2012**, 30, 251-60	17.8	125
96	Toll-like receptor 4 (TLR4) modulation by synthetic and natural compounds: an update. *Journal of Medicinal Chemistry*, **2014**, 57, 3612-22	8.3	115
95	Electrospinning for drug delivery applications: A review. *Journal of Controlled Release*, **2021**, 334, 463-484	11.7	107
94	Bone morphogenic protein antagonist Drm/gremlin is a novel proangiogenic factor. *Blood*, **2007**, 109, 1834-40	2.2	105
93	Metabolism of phosphatidylinositol 4-kinase IIIα-dependent PI4P Is subverted by HCV and is targeted by a 4-anilino quinazoline with antiviral activity. *PLoS Pathogens*, **2012**, 8, e1002576	7.6	95
92	TLR4 antagonist FP7 inhibits LPS-induced cytokine production and glycolytic reprogramming in dendritic cells, and protects mice from lethal influenza infection. *Scientific Reports*, **2017**, 7, 40791	4.9	86
91	The Role of Carbohydrates in the Lipopolysaccharide (LPS)/Toll-Like Receptor 4 (TLR4) Signalling. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	77
90	Exploring the LPS/TLR4 signal pathway with small molecules. *Biochemical Society Transactions*, **2010**, 38, 1390-5	5.1	74
89	Clustered carbohydrates in synthetic vaccines. *Chemical Society Reviews*, **2013**, 42, 4543-56	58.5	65
88	Chemoselective ligation in glycochemistry. *Chemical Communications*, **2004**, 623-7	5.8	62
87	Glycolipids and benzylammonium lipids as novel antisepsis agents: synthesis and biological characterization. *Journal of Medicinal Chemistry*, **2009**, 52, 1209-13	8.3	55
86	Novel Tn antigen-containing neoglycopeptides: synthesis and evaluation as anti tumor vaccines. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 1639-46	3.4	54

85	Synthesis and conformational analysis of novel N(OCH3)-linked disaccharide analogues. *Chemistry - A European Journal*, **2004**, 10, 1433-44	4.8	49
84	Evidence of a specific interaction between new synthetic antisepsis agents and CD14. *Biochemistry*, **2009**, 48, 12337-44	3.2	47
83	Glycoconjugates in cancer therapy. *Anti-Cancer Agents in Medicinal Chemistry*, **2008**, 8, 92-121	2.2	44
82	Synthetic and natural small molecule TLR4 antagonists inhibit motoneuron death in cultures from ALS mouse model. *Pharmacological Research*, **2016**, 103, 180-7	10.2	42
81	Modulation of CD14 and TLR4MD-2 activities by a synthetic lipid A mimetic. *ChemBioChem*, **2014**, 15, 250-8	3.8	39
80	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic PhotosensitizerCoadsorbent Intermolecular Interaction. *ACS Energy Letters*, **2018**, 3, 85-91	20.1	39
79	Novel alpha-conotoxins from Conus spurius and the alpha-conotoxin EI share high-affinity potentiation and low-affinity inhibition of nicotinic acetylcholine receptors. *FEBS Journal*, **2007**, 274, 3972-85	5.7	37
78	Uniform lipopolysaccharide (LPS)-loaded magnetic nanoparticles for the investigation of LPS-TLR4 signaling. *Angewandte Chemie - International Edition*, **2011**, 50, 622-6	16.4	36
77	Design, synthesis and biological evaluation of sugar-derived Ras inhibitors. *ChemBioChem*, **2005**, 6, 1839-48	3.8	35
76	First experimental identification of Ras-inhibitor binding interface using a water-soluble Ras ligand. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 4217-22	2.9	34
75	Stepwise synthesis and structural characterization of calix[4]- and calix[5]arenes bearing a functionalized arm on the methylene bridge. *Tetrahedron*, **1997**, 53, 13037-13052	2.4	34
74	Chemoselective neoglycosylation. *Advances in Carbohydrate Chemistry and Biochemistry*, **2007**, 61, 353-98	3.7	34
73	Synthesis and biological evaluation of an anticancer vaccine containing the C-glycoside analogue of the Tn epitope. *Bioconjugate Chemistry*, **2001**, 12, 325-8	6.3	34
72	Structure-Activity Relationship in Monosaccharide-Based Toll-Like Receptor 4 (TLR4) Antagonists. *Journal of Medicinal Chemistry*, **2018**, 61, 2895-2909	8.3	32
71	Selective cytotoxicity of a bicyclic Ras inhibitor in cancer cells expressing K-Ras(G13D). *Biochemical and Biophysical Research Communications*, **2009**, 386, 593-7	3.4	32
70	Solution and solid-phase chemoselective synthesis of (1-6)-amino(methoxy) di- and trisaccharide analogues. *Chemical Communications*, **2002**, 1504-5	5.8	32
69	Toll-like Receptor 4-Induced Glycolytic Burst in Human Monocyte-Derived Dendritic Cells Results from p38-Dependent Stabilization of HIF-1and Increased Hexokinase II Expression. *Journal of Immunology*, **2018**, 201, 1510-1521	5.3	31
68	A novel small molecule TLR4 antagonist (IAXO-102) negatively regulates non-hematopoietic toll like receptor 4 signalling and inhibits aortic aneurysms development. *Atherosclerosis*, **2015**, 242, 563-70	3.1	28

67	Carbohydrate-Based Scaffolds for the Generation of Sortiments of Bioactive Compounds. *Monatshefte F□ Chemie*, **2002**, 133, 369-382	1.4	28
66	Toll-like receptor 4 modulation influences human neural stem cell proliferation and differentiation. *Cell Death and Disease*, **2018**, 9, 280	9.8	27
65	Amphiphilic Guanidinocalixarenes Inhibit Lipopolysaccharide (LPS)- and Lectin-Stimulated Toll-like Receptor 4 (TLR4) Signaling. *Journal of Medicinal Chemistry*, **2017**, 60, 4882-4892	8.3	26
64	Hemin and a metabolic derivative coprohemin modulate the TLR4 pathway differently through different molecular targets. *Innate Immunity*, **2011**, 17, 293-301	2.7	26
63	A new procedure for the synthesis of C-glycosides of nojirimycin. *Chemical Communications*, **2000**, 1289-1290	5.2	26
62	Design, synthesis, and biological evaluation of levoglucosenone-derived ras activation inhibitors. *ChemMedChem*, **2009**, 4, 524-8	3.7	25
61	Inhibition of lipid a stimulated activation of human dendritic cells and macrophages by amino and hydroxylamino monosaccharides. *Angewandte Chemie - International Edition*, **2007**, 46, 3308-12	16.4	25
60	The cationic amphiphile 3,4-bis(tetradecyloxy)benzylamine inhibits LPS signaling by competing with endotoxin for CD14 binding. *Biochemical Pharmacology*, **2010**, 80, 2050-6	6	24
59	Stereoselective synthesis of □C-glycosides of N-acetylgalactosamine. *Tetrahedron: Asymmetry*, **2000**, 11, 295-303		24
58	Molecular simplification of lipid A structure: TLR4-modulating cationic and anionic amphiphiles. *Molecular Immunology*, **2015**, 63, 153-61	4.3	23
57	Trehalose- and glucose-derived glycoamphiphiles: small-molecule and nanoparticle Toll-like receptor 4 (TLR4) modulators. *Journal of Medicinal Chemistry*, **2014**, 57, 9105-23	8.3	23
56	Glucose-derived Ras pathway inhibitors: evidence of Ras-ligand binding and Ras-GEF (Cdc25) interaction inhibition. *ChemBioChem*, **2007**, 8, 1376-9	3.8	23
55	Synthesis and biological evaluation of novel lipid A antagonists. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 190-9	3.4	23
54	Bicyclic carbohydrate-derived scaffolds for combinatorial libraries. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3349-67	3.4	23
53	Recent advances on Toll-like receptor 4´modulation: new therapeutic perspectives. *Future Medicinal Chemistry*, **2018**, 10, 461-476	4.1	22
52	Sugar-Derived Ras Inhibitors: Group Epitope Mapping by NMR Spectroscopy and Biological Evaluation. *European Journal of Organic Chemistry*, **2006**, 2006, 3707-3720	3.2	22
51	Synthesis of bicyclic sugar azido acids and their incorporation in cyclic peptides. *Chemical Communications*, **2000**, 2303-2304	5.8	20
50	Extending chemoselective ligation to sugar chemistry: convergent assembly of bioactive neoglycoconjugates. *Mini-Reviews in Medicinal Chemistry*, **2003**, 3, 651-8	3.2	17

49	Tin-mediated regioselective acylation of unprotected sugars on solid phase. *Tetrahedron Letters*, **2000**, 41, 8587-8590	2	17
48	Novel carboxylate-based glycolipids: TLR4 antagonism, MD-2 binding and self-assembly properties. *Scientific Reports*, **2019**, 9, 919	4.9	16
47	Increasing the Chemical Variety of Small-Molecule-Based TLR4 Modulators: An Overview. *Frontiers in Immunology*, **2020**, 11, 1210	8.4	16
46	Functional characterization of E. coli LptC: interaction with LPS and a synthetic ligand. *ChemBioChem*, **2014**, 15, 734-42	3.8	16
45	Synthesis of Imino Sugar Scaffolds for the Generation of Glycosidase Inhibitor Libraries. *European Journal of Organic Chemistry*, **2004**, 2004, 2451-2470	3.2	16
44	d-Glucose as a Regioselectively Addressable Scaffold for Combinatorial Chemistry on Solid Phase. *Journal of Carbohydrate Chemistry*, **2003**, 22, 57-71	1.7	16
43	On the regioselectivity of the protease subtilisin towards the acylation of enantiomeric pairs of benzyl and naphthyl glycopyranosides. Part 2. *Tetrahedron*, **1999**, 55, 2045-2060	2.4	16
42	Binding properties and biological characterization of new sugar-derived Ras ligands. *MedChemComm*, **2011**, 2, 396	5	15
41	Structure and inflammatory activity of the LPS isolated from Acetobacter pasteurianus CIP103108. *International Journal of Biological Macromolecules*, **2018**, 119, 1027-1035	7.9	14
40	Clicked and long spaced galactosyl- and lactosylcalix[4]arenes: new multivalent galectin-3 ligands. *Beilstein Journal of Organic Chemistry*, **2014**, 10, 1672-80	2.5	14
39	A synthetic lipid A mimetic modulates human TLR4 activity. *ChemMedChem*, **2012**, 7, 213-7	3.7	14
38	Arabinose-derived bicyclic amino acids: synthesis, conformational analysis and construction of an αvβ3-selective RGD peptide. *Journal of the Chemical Society, Perkin Transactions 1*, **2002**, 638-644		14
37	Calixarenes with exo-hydroxy groups: Synthesis, crystal and molecular structure of ortho-tert-butylphenol-based calix[4]-, calix[6]- and calix[8]arenes. *Tetrahedron*, **1997**, 53, 3287-3300	2.4	12
36	A highly convergent approach to O- and N-linked glycopeptide analogues. *Glycoconjugate Journal*, **1999**, 16, 399-404	3	12
35	Structural characterization of aerogels derived from enzymatically oxidized galactomannans of fenugreek, sesbania and guar gums. *Carbohydrate Polymers*, **2019**, 207, 510-520	10.3	11
34	Glycolipid-based TLR4 Modulators and Fluorescent Probes: Rational Design, Synthesis, and Biological Properties. *Chemical Biology and Drug Design*, **2016**, 88, 217-29	2.9	10
33	Design and characterization of a new class of inhibitors of ras activation. *Annals of the New York Academy of Sciences*, **2004**, 1030, 52-61	6.5	10
32	The synthetic glycolipid-based TLR4 antagonist FP7 negatively regulates in vitro and in vivo haematopoietic and non-haematopoietic vascular TLR4 signalling. *Innate Immunity*, **2018**, 24, 411-421	2.7	10

31	Effect of chemical modulation of toll-like receptor 4 in an animal model of ulcerative colitis. *European Journal of Clinical Pharmacology*, **2020**, 76, 409-418	2.8	9
30	Structure-activity studies on arylamides and arysulfonamides Ras inhibitors. *Current Cancer Drug Targets*, **2010**, 10, 192-9	2.8	9
29	Looking forward: a glance into the future of organic chemistry. *New Journal of Chemistry*, **2006**, 30, 823-831	3.3	9
28	Glycoconjugate and oligosaccharide mimetics by chemoselective ligation. *Comptes Rendus Chimie*, **2003**, 6, 635-644	2.7	9
27	Conformational features of a synthetic model of the first extracellular loop of the angiotensin II AT1A receptor. *Journal of Peptide Science*, **2003**, 9, 229-43	2.1	9
26	Synthesis of the New Cyanine-Labeled Bacterial Lipooligosaccharides for Intracellular Imaging and in Vitro Microscopy Studies. *Bioconjugate Chemistry*, **2019**, 30, 1649-1657	6.3	8
25	Developing New Anti-Tuberculosis Vaccines: Focus on Adjuvants. *Cells*, **2021**, 10,	7.9	8
24	Polycyclic scaffolds from fructose. *Tetrahedron Letters*, **2002**, 43, 1355-1357	2	7
23	Conversion of Lactose into Mimics of N-Acetyllactosamine. *European Journal of Organic Chemistry*, **1999**, 1999, 3437-3440	3.2	6
22	Assembly of binding loops on aromatic templates as VCAM-1 mimetics. *Journal of Peptide Science*, **1999**, 5, 313-22	2.1	6
21	Synthetic molecules and functionalized nanoparticles targeting the LPS-TLR4 signaling: A new generation of immunotherapeutics. *Pure and Applied Chemistry*, **2011**, 84, 97-106	2.1	5
20	Co-administration of Antimicrobial Peptides Enhances Toll-like Receptor 4 Antagonist Activity of a Synthetic Glycolipid. *ChemMedChem*, **2018**, 13, 280-287	3.7	4
19	Uniform Lipopolysaccharide (LPS)-Loaded Magnetic Nanoparticles for the Investigation of LPS–TLR4 Signaling. *Angewandte Chemie*, **2011**, 123, 648-652	3.6	4
18	Discrimination properties of tetraamidic branched selectors. *Journal of Chromatography A*, **1998**, 802, 315-324	4.5	3
17	Inhibition of Lipid A Stimulated Activation of Human Dendritic Cells and Macrophages by Amino and Hydroxylamino Monosaccharides. *Angewandte Chemie*, **2007**, 119, 3372-3376	3.6	3
16	SYNTHESIS OF IMINO-C-DISACCHARIDES RELATED TO SUCROSE1. *Journal of Carbohydrate Chemistry*, **2001**, 20, 667-680	1.7	3
15	Microbiome studies in the medical sciences and the need for closer multidisciplinary interplay. *Science Signaling*, **2020**, 13,	8.8	3
14	A new isoluminol reagent for chemiluminescence labeling of proteins. *Tetrahedron Letters*, **2013**, 54, 4446-4450	2	2

13	Sugar-based inhibitors of Ras activation: biological activity and identification of Ras-inhibitor binding interface. *The Enzymes*, **2013**, 33 Pt A, 95-116	2.3	2
12	Alchimies futures´: compte rendu de l'expérience ESYOP. *Comptes Rendus Chimie*, **2006**, 9, 127-140	2.7	2
11	Synthetic glycolipid-based TLR4 antagonists negatively regulate TRIF-dependent TLR4 signalling in human macrophages. *Innate Immunity*, **2021**, 27, 275-284	2.7	2
10	Synthetic Glycolipids as Molecular Vaccine Adjuvants: Mechanism of Action in Human Cells and In Vivo Activity. *Journal of Medicinal Chemistry*, **2021**, 64, 12261-12272	8.3	2
9	The Multi-Level Mechanism of Action of a Pan-Ras Inhibitor Explains its Antiproliferative Activity on Cetuximab-Resistant Cancer Cells. *Frontiers in Molecular Biosciences*, **2021**, 8, 625979	5.6	1
8	A Highly Sensitive Luminescent Biosensor for the Microvolumetric Detection of the Siderophore Pyochelin. *ACS Sensors*, **2021**, 6, 3273-3283	9.2	1
7	Chemistry of Lipid A: At the Heart of Innate Immunity. *Chemistry - A European Journal*, **2015**, 21, 477-477	4.8	0
6	How do viruses interfere with Toll-like receptor 4?. *Future Virology*, **2017**, 12, 243-246	2.4	
5	Modulation of Lipopolysaccharide Signalling Through TLR4 Agonists and Antagonists **2011**, 389-416		
4	Solvent effect in the fragment condensation synthesis of calix[4]arenes and temperature dependent 1H-NMR studies of new dihomomonoxacalixarenes. *Tetrahedron Letters*, **1995**, 36, 8323-8326	2	
3	The Role of TLR4 in Neural Stem Cells Mediated Neurogenesis and Neuroinflammation. *Agents and Actions Supplements*, **2021**, 129-141	0.2	
2	Carbohydrate-Based Scaffolds for the Generation of Sortiments of Bioactive Compounds **2002**, 19-32		
1	The EuroSciCon's 2015 Innate Immunity Summit. *Future Virology*, **2016**, 11, 665-669	2.4	