Stefania Merighi

List of Publications by Citations

119 papers	6,318 citations	46 h-index	77 g-index
127 ext. papers	7,225 ext. citations	6.5 avg, IF	5.48 L-index

#	Paper	IF	Citations
119	A glance at adenosine receptors: novel target for antitumor therapy **2003**, 100, 31-48		373
118	A(3) adenosine receptors in human neutrophils and promyelocytic HL60 cells: a pharmacological and biochemical study. *Molecular Pharmacology*, **2002**, 61, 415-24	4.3	317
117	Design, synthesis, and biological evaluation of new 8-heterocyclic xanthine derivatives as highly potent and selective human A2B adenosine receptor antagonists. *Journal of Medicinal Chemistry*, **2004**, 47, 1434-47	8.3	298
116	Pharmacology of Adenosine Receptors: The State of the Art. *Physiological Reviews*, **2018**, 98, 1591-1625	47.9	259
115	Pyrazolotriazolopyrimidine derivatives sensitize melanoma cells to the chemotherapic drugs: taxol and vindesine. *Biochemical Pharmacology*, **2003**, 66, 739-48	6	227
114	The A3 adenosine receptor: an enigmatic player in cell biology **2008**, 117, 123-40		177
113	Adenosine as a Multi-Signalling Guardian Angel in Human Diseases: When, Where and How Does it Exert its Protective Effects?. *Trends in Pharmacological Sciences*, **2016**, 37, 419-434	13.2	174
112	The A3 adenosine receptor: history and perspectives. *Pharmacological Reviews*, **2015**, 67, 74-102	22.5	162
111	Adenosine receptors and cancer. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 1400-12	3.8	158
110	Caffeine inhibits adenosine-induced accumulation of hypoxia-inducible factor-1alpha, vascular endothelial growth factor, and interleukin-8 expression in hypoxic human colon cancer cells. *Molecular Pharmacology*, **2007**, 72, 395-406	4.3	136
109	A(2A) adenosine receptors in human peripheral blood cells. *British Journal of Pharmacology*, **2000**, 129, 2-11	8.6	124
108	A(3) adenosine receptor ligands: history and perspectives. *Medicinal Research Reviews*, **2000**, 20, 103-28	14.4	117
107	Adenosine receptors as mediators of both cell proliferation and cell death of cultured human melanoma cells. *Journal of Investigative Dermatology*, **2002**, 119, 923-33	4.3	115
106	Adenosine modulates vascular endothelial growth factor expression via hypoxia-inducible factor-1 in human glioblastoma cells. *Biochemical Pharmacology*, **2006**, 72, 19-31	6	106
105	Effect of low frequency electromagnetic fields on A2A adenosine receptors in human neutrophils. *British Journal of Pharmacology*, **2002**, 136, 57-66	8.6	100
104	Characterization of adenosine receptors in bovine chondrocytes and fibroblast-like synoviocytes exposed to low frequency low energy pulsed electromagnetic fields. *Osteoarthritis and Cartilage*, **2008**, 16, 292-304	6.2	98
103	A3 adenosine receptor activation inhibits cell proliferation via phosphatidylinositol 3-kinase/Akt-dependent inhibition of the extracellular signal-regulated kinase 1/2 phosphorylation in A375 human melanoma cells. *Journal of Biological Chemistry*, **2005**, 280, 19516-26	5.4	98

102	Adenosine receptors in colon carcinoma tissues and colon tumoral cell lines: focus on the A(3) adenosine subtype. *Journal of Cellular Physiology*, **2007**, 211, 826-36	7	96
101	Pharmacological and biochemical characterization of adenosine receptors in the human malignant melanoma A375 cell line. *British Journal of Pharmacology*, **2001**, 134, 1215-26	8.6	93
100	Dose and time effects of caffeine intake on human platelet adenosine A(2A) receptors : functional and biochemical aspects. *Circulation*, **2000**, 102, 285-9	16.7	92
99	Caffeine alters A2A adenosine receptors and their function in human platelets. *Circulation*, **1999**, 99, 2499-502	16.7	89
98	Pharmacological and biochemical characterization of A3 adenosine receptors in Jurkat T cells. *British Journal of Pharmacology*, **2001**, 134, 116-26	8.6	88
97	Pulsed electromagnetic fields increased the anti-inflammatory effect of A□A and A□adenosine receptors in human T/C-28a2 chondrocytes and hFOB 1.19 osteoblasts. *PLoS ONE*, **2013**, 8, e65561	3.7	84
96	A Adenosine Receptors as Modulators of Inflammation: From Medicinal Chemistry to Therapy. *Medicinal Research Reviews*, **2018**, 38, 1031-1072	14.4	82
95	Pyrazolo[4,3-e]1,2,4-triazolo[1,5-c]pyrimidine derivatives as highly potent and selective human A(3) adenosine receptor antagonists: influence of the chain at the N(8) pyrazole nitrogen. *Journal of Medicinal Chemistry*, **2000**, 43, 4768-80	8.3	82
94	Pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidine derivatives as highly potent and selective human A(3) adenosine receptor antagonists. *Journal of Medicinal Chemistry*, **1999**, 42, 4473-8	8.3	75
93	Expression of A3 adenosine receptors in human lymphocytes: up-regulation in T cell activation. *Molecular Pharmacology*, **2004**, 65, 711-9	4.3	72
92	Morphine mediates a proinflammatory phenotype via □opioid receptor-PKCe-Akt-ERK1/2 signaling pathway in activated microglial cells. *Biochemical Pharmacology*, **2013**, 86, 487-96	6	70
91	Hypoxia inhibits paclitaxel-induced apoptosis through adenosine-mediated phosphorylation of bad in glioblastoma cells. *Molecular Pharmacology*, **2007**, 72, 162-72	4.3	70
90	A3 adenosine receptors modulate hypoxia-inducible factor-1alpha expression in human A375 melanoma cells. *Neoplasia*, **2005**, 7, 894-903	6.4	70
89	Adenosine modulates HIF-1{alpha}, VEGF, IL-8, and foam cell formation in a human model of hypoxic foam cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 90-7	9.4	65
88	Temporal mapping of transcripts in herpesvirus 6 variants. *Journal of Virology*, **1998**, 72, 3837-44	6.6	65
87	Pathological overproduction: the bad side of adenosine. *British Journal of Pharmacology*, **2017**, 174, 1945-1960	8.6	64
86	Design, synthesis, and biological evaluation of C9- and C2-substituted pyrazolo[4,3-e]-1,2,4-triazolo[1,5-c]pyrimidines as new A2A and A3 adenosine receptors antagonists. *Journal of Medicinal Chemistry*, **2003**, 46, 1229-41	8.3	63
85	Adenosine receptor targeting in health and disease. *Expert Opinion on Investigational Drugs*, **2011**, 20, 1591-609	5.9	62

84	Adenosine and lymphocyte regulation. *Purinergic Signalling*, **2007**, 3, 109-16	3.8	62
83	Adenosine receptors in health and disease. *Advances in Pharmacology*, **2011**, 61, 41-75	5.7	59
82	A(2B) and A(3) adenosine receptors modulate vascular endothelial growth factor and interleukin-8 expression in human melanoma cells treated with etoposide and doxorubicin. *Neoplasia*, **2009**, 11, 1064-73	6.4	59
81	Expression, pharmacological profile, and functional coupling of A2B receptors in a recombinant system and in peripheral blood cells using a novel selective antagonist radioligand, [3H]MRE 2029-F20. *Molecular Pharmacology*, **2005**, 67, 2137-47	4.3	58
80	Modulation of metalloproteinase-9 in U87MG glioblastoma cells by A3 adenosine receptors. *Biochemical Pharmacology*, **2010**, 79, 1483-95	6	57
79	Pharmacological characterization of novel adenosine ligands in recombinant and native human A2B receptors. *Biochemical Pharmacology*, **2005**, 70, 1601-12	6	51
78	The activation of δ-opioid receptor potentiates LPS-induced NF-kB promoting an inflammatory phenotype in microglia. *FEBS Letters*, **2016**, 590, 2813-26	3.8	49
77	Antinociceptive effects of the selective CB2 agonist MT178 in inflammatory and chronic rodent pain models. *Pain*, **2013**, 154, 864-73	8	49
76	Medicinal Chemistry, Pharmacology, and Clinical Implications of TRPV1 Receptor Antagonists. *Medicinal Research Reviews*, **2017**, 37, 936-983	14.4	47
75	The Role of Adenosine Receptors in Psychostimulant Addiction. *Frontiers in Pharmacology*, **2017**, 8, 985	5.6	46
74	TRR469, a potent A(1) adenosine receptor allosteric modulator, exhibits anti-nociceptive properties in acute and neuropathic pain models in mice. *Neuropharmacology*, **2014**, 81, 6-14	5.5	46
73	Cannabinoid CB(2) receptor attenuates morphine-induced inflammatory responses in activated microglial cells. *British Journal of Pharmacology*, **2012**, 166, 2371-85	8.6	46
72	Synthesis and biological effects of novel 2-amino-3-naphthoylthiophenes as allosteric enhancers of the A1 adenosine receptor. *Journal of Medicinal Chemistry*, **2003**, 46, 794-809	8.3	44
71	A adenosine receptors stimulate IL-6 production in primary murine microglia through p38 MAPK kinase pathway. *Pharmacological Research*, **2017**, 117, 9-19	10.2	42
70	New pyrrolo[2,1-f]purine-2,4-dione and imidazo[2,1-f]purine-2,4-dione derivatives as potent and selective human A3 adenosine receptor antagonists. *Journal of Medicinal Chemistry*, **2005**, 48, 4697-701	8.3	40
69	Adenosine Receptors as a Biological Pathway for the Anti-Inflammatory and Beneficial Effects of Low Frequency Low Energy Pulsed Electromagnetic Fields. *Mediators of Inflammation*, **2017**, 2017, 2740963	4.3	39
68	A(1) and A(3) adenosine receptors inhibit LPS-induced hypoxia-inducible factor-1 accumulation in murine astrocytes. *Pharmacological Research*, **2013**, 76, 157-70	10.2	39
67	Cannabinoid CB(2) receptors modulate ERK-1/2 kinase signalling and NO release in microglial cells stimulated with bacterial lipopolysaccharide. *British Journal of Pharmacology*, **2012**, 165, 1773-1788	8.6	39

66	Role and Function of A and A Adenosine Receptors in Patients with Ankylosing Spondylitis, Psoriatic Arthritis and Rheumatoid Arthritis. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	38
65	Multiple sclerosis lymphocytes upregulate A2A adenosine receptors that are antiinflammatory when stimulated. *European Journal of Immunology*, **2013**, 43, 2206-16	6.1	37
64	A(2A) adenosine receptors are differentially modulated by pharmacological treatments in rheumatoid arthritis patients and their stimulation ameliorates adjuvant-induced arthritis in rats. *PLoS ONE*, **2013**, 8, e54195	3.7	37
63	Allosteric enhancers of A1 adenosine receptors: state of the art and new horizons for drug development. *Current Medicinal Chemistry*, **2010**, 17, 3488-502	4.3	37
62	Nociceptin receptor binding in mouse forebrain membranes: thermodynamic characteristics and structure activity relationships. *British Journal of Pharmacology*, **1998**, 125, 1485-90	8.6	35
61	[3H]-MRE 2029-F20, a selective antagonist radioligand for the human A2B adenosine receptors. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 3607-10	2.9	34
60	A and a adenosine receptors affect HIF-1 signaling in activated primary microglial cells. *Glia*, **2015**, 63, 1933-1952	9	33
59	Pulsed Electromagnetic Field Exposure Reduces Hypoxia and Inflammation Damage in Neuron-Like and Microglial Cells. *Journal of Cellular Physiology*, **2017**, 232, 1200-1208	7	32
58	Inhibition of A Adenosine Receptor Signaling in Cancer Cells Proliferation by the Novel Antagonist TP455. *Frontiers in Pharmacology*, **2017**, 8, 888	5.6	32
57	Pyrazolo[4,3-e]1,2,4-triazolo[1,5-c]pyrimidine ligands, new tools to characterize A3 adenosine receptors in human tumor cell lines. *Current Medicinal Chemistry*, **2005**, 12, 1319-29	4.3	32
56	Biochemical and Pharmacological Role of A Adenosine Receptors and Their Modulation as Novel Therapeutic Strategy. *Advances in Experimental Medicine and Biology*, **2017**, 1051, 193-232	3.6	31
55	Hydrogen sulfide modulates the release of nitric oxide and VEGF in human keratinocytes. *Pharmacological Research*, **2012**, 66, 428-36	10.2	31
54	The anti-tumor effect of A3 adenosine receptors is potentiated by pulsed electromagnetic fields in cultured neural cancer cells. *PLoS ONE*, **2012**, 7, e39317	3.7	31
53	Pharmacological characterization of P2X1 and P2X3 purinergic receptors in bovine chondrocytes. *Osteoarthritis and Cartilage*, **2008**, 16, 1421-9	6.2	31
52	Modulation of the Akt/Ras/Raf/MEK/ERK pathway by A adenosine receptor. *Purinergic Signalling*, **2006**, 2, 627-32	3.8	30
51	Synthesis and activity of 3-pyridylamine ligands at central nicotinic receptors. *European Journal of Medicinal Chemistry*, **2000**, 35, 979-88	6.8	29
50	Adenosine receptors and diabetes: Focus on the A(2B) adenosine receptor subtype. *Pharmacological Research*, **2015**, 99, 229-36	10.2	27
49	Recent developments in the field of A3 adenosine receptor antagonists. *Drug Development Research*, **2003**, 58, 315-329	5.1	27

48	Alteration of A(3) adenosine receptors in human neutrophils and low frequency electromagnetic fields. *Biochemical Pharmacology*, **2003**, 66, 1897-906	6	26
47	Glucocorticoids pharmacology: past, present and future. *Current Pharmaceutical Design*, **2010**, 16, 3540-53	3.3	25
46	Binding thermodynamics at the human A(3) adenosine receptor. *Biochemical Pharmacology*, **2002**, 63, 157-61	6	25
45	Positive allosteric modulation of A adenosine receptors as a novel and promising therapeutic strategy for anxiety. *Neuropharmacology*, **2016**, 111, 283-292	5.5	24
44	Binding thermodynamics at the human cannabinoid CB1 and CB2 receptors. *Biochemical Pharmacology*, **2010**, 79, 471-7	6	20
43	Receptor binding thermodynamics at the neuronal nicotinic receptor. *Current Topics in Medicinal Chemistry*, **2004**, 4, 361-8	3	20
42	Pyrazolo[4,3-e]1,2,4-triazolo[1,5-c]pyrimidine derivatives as adenosine receptor ligands: A starting point for searching A2B adenosine receptor antagonists. *Drug Development Research*, **2001**, 53, 225-235	5.1	19
41	Pulsed electromagnetic field and relief of hypoxia-induced neuronal cell death: The signaling pathway. *Journal of Cellular Physiology*, **2019**, 234, 15089	7	19
40	Synthesis and preliminary biological evaluation of [3H]-MRE 3008-F20: the first high affinity radioligand antagonist for the human A3 adenosine receptors. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 209-11	2.9	18
39	Thermodynamics of A2B adenosine receptor binding discriminates agonistic from antagonistic behaviour. *Biochemical Pharmacology*, **2008**, 75, 562-9	6	17
38	Targeting A3 and A2A adenosine receptors in the fight against cancer. *Expert Opinion on Therapeutic Targets*, **2019**, 23, 669-678	6.4	16
37	PKC as a novel promoter of skeletal muscle differentiation and regeneration. *Experimental Cell Research*, **2015**, 339, 10-9	4.2	14
36	Effects of two-carbon bridge region methoxylation of benztropine: discovery of novel chiral ligands for the dopamine transporter. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 823-7	2.9	14
35	Synthesis, molecular modeling and SAR study of novel pyrazolo[5,1-f][1,6]naphthyridines as CB receptor antagonists/inverse agonists. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 5291-5301	3.4	12
34	Water-soluble pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidines as human A adenosine receptor antagonists. *Journal of Medicinal Chemistry*, **2012**, 55, 5380-90	8.3	10
33	Adenosine receptors and human melanoma. *Drug Development Research*, **2003**, 58, 377-385	5.1	10
32	Pyrazolo[4,3-e]1,2,4-triazolo[1,5-c]pyrimidine derivatives: A new pharmacological tool for the characterization of the human A3 adenosine receptor. *Drug Development Research*, **2001**, 52, 406-415	5.1	10
31	Adenosine Receptors: Structure, Distribution, and Signal Transduction **2018**, 33-57		9

30	Downregulation of A(1) and A(2B) adenosine receptors in human trisomy 21 mesenchymal cells from first-trimester chorionic villi. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1660-70	6.9	9
29	Binding thermodynamic characterization of human P2X1 and P2X3 purinergic receptors. *Biochemical Pharmacology*, **2008**, 75, 1198-208	6	9
28	Synthesis and pharmacology of 6-substituted benztropines: discovery of novel dopamine uptake inhibitors possessing low binding affinity to the dopamine transporter. *Journal of Medicinal Chemistry*, **2005**, 48, 3337-43	8.3	8
27	An Open Question: Is the A Adenosine Receptor a Novel Target for Alzheimer's Disease Treatment?. *Frontiers in Pharmacology*, **2021**, 12, 652455	5.6	8
26	Deregulation of Adenosine Receptors in Psoriatic Epidermis: An Option for Therapeutic Treatment. *Journal of Investigative Dermatology*, **2017**, 137, 11-13	4.3	7
25	Targeting adenosine receptors to prevent inflammatory skin diseases. *Experimental Dermatology*, **2014**, 23, 553-4	4	7
24	Cytokine Profiling in Myeloproliferative Neoplasms: Overview on Phenotype Correlation, Outcome Prediction, and Role of Genetic Variants. *Cells*, **2020**, 9,	7.9	7
23	Upregulation of Cortical A2A Adenosine Receptors Is Reflected in Platelets of Patients with Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2021**, 80, 1105-1117	4.3	7
22	The Detrimental Action of Adenosine on Glutamate-Induced Cytotoxicity in PC12 Cells Can Be Shifted towards a Neuroprotective Role through AAR Positive Allosteric Modulation. *Cells*, **2020**, 9,	7.9	6
21	Novel selective antagonist radioligands for the pharmacological study of A(2B) adenosine receptors. *Purinergic Signalling*, **2006**, 2, 583-8	3.8	6
20	Synthesis and Biological Evaluation of Pyrazolo[3,4-b]pyridin-4-ones as a New Class of Topoisomerase II Inhibitors. *Medicinal Chemistry*, **2015**, 11, 342-53	1.8	6
19	Signaling pathways involved in anti-inflammatory effects of Pulsed Electromagnetic Field in microglial cells. *Cytokine*, **2020**, 125, 154777	4	6
18	Adenosine Receptors and Current Opportunities to Treat Cancer **2018**, 543-555		5
17	Synthesis and biological activity of a novel class nicotinic acetylcholine receptors (nAChRs) ligands structurally related to anatoxin-a. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 5423-7	2.9	4
16	Adenosine A2A receptors of human circulating blood elements. *Drug Development Research*, **1998**, 45, 253-260	5.1	4
15	Synthesis and Biological Evaluation of Allosteric A1-Adenosine Receptor Modulators Structurally Related to (2-Amino-4,5,6,7-Tetrahydro-Benzo[B]Thiophen-3-YL)-(4-Chloro-Phenyl)-Methanone, a Potent Compound Useful to Reduce Neuropathic Pain. *Medicinal Chemistry Research*, **2005**, 14, 125-142	2.2	4
14	Regulation of Second Messenger Systems and Intracellular Pathways **2010**, 61-73		4
13	Alzheimer and Purinergic Signaling: Just a Matter of Inflammation?. *Cells*, **2021**, 10,	7.9	4

12	Antioxidant and Antiinflammatory Effects of , and Plant Extracts in Macrophage and Microglial Cells. *Cells*, **2021**, 10,	7.9	3
11	A Adenosine Receptor as a Potential Biomarker and a Possible Therapeutic Target in Alzheimer's Disease. *Cells*, **2021**, 10,	7.9	3
10	van't Hoff Based Thermodynamics. *Methods and Principles in Medicinal Chemistry*, **2015**, 15-35	0.4	2
9	Adenosine Receptors in Neuropsychiatric Disorders: Fine Regulators of Neurotransmission and Potential Therapeutic Targets.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	2
8	Agonists and Antagonists: Molecular Mechanisms and Therapeutic Applications **2010**, 301-317		2
7	A Adenosine Receptor Partial Agonists and Allosteric Modulators: Advancing Toward the Clinic?. *Frontiers in Pharmacology*, **2020**, 11, 625134	5.6	2
6	Adenosinergic System Involvement in Ischemic Stroke Patients'Lymphocytes. *Cells*, **2020**, 9,	7.9	1
5	Synthesis, Pharmacological Evaluation, and Docking Studies of Novel Pyridazinone-Based Cannabinoid Receptor Type 2 Ligands. *ChemMedChem*, **2018**, 13, 1102-1114	3.7	1
4	Adenosine Receptors: The Status of the Art **2018**, 1-11		1
3	Thermodynamic Analysis in Drug-Receptor Binding: The A3 Adenosine Receptor **2010**, 29-48		
2	Synthesis and binding of 3-aminopyridine derivatives at central nicotinic receptors. *Arzneimittelforschung*, **2000**, 50, 507-11		
1	Synthesis, biological evaluation and docking studies of a novel class of sulfur-bridged diazabicyclo[3.3.1]nonanes. *Bioorganic Chemistry*, **2020**, 102, 104072	5.1	