

# Simone Beninati

## List of Publications by Citations

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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.

87  
papers

2,117  
citations

26  
h-index

41  
g-index

100  
ext. papers

2,393  
ext. citations

3.9  
avg. IF

4.47  
L-index

#	Paper	IF	Citations
87	Beneficial Role of Phytochemicals on Oxidative Stress and Age-Related Diseases. <i>BioMed Research International</i> , <b>2019</b> , 2019, 8748253	3	150
86	Plant transglutaminases. <i>Phytochemistry</i> , <b>1995</b> , 40, 355-65	4	107
85	Osteopontin: its transglutaminase-catalyzed posttranslational modifications and cross-linking to fibronectin. <i>Journal of Biochemistry</i> , <b>1994</b> , 115, 675-82	3.1	78
84	The transglutaminase family: an overview: minireview article. <i>Amino Acids</i> , <b>2004</b> , 26, 367-72	3.5	66
83	The role of eukaryotic initiation factor 5A in the control of cell proliferation and apoptosis. <i>Amino Acids</i> , <b>2001</b> , 20, 91-104	3.5	66
82	Antitumor properties of aloe-emodin and induction of transglutaminase 2 activity in B16-F10 melanoma cells. <i>Life Sciences</i> , <b>2010</b> , 87, 316-24	6.8	63
81	Interaction of osteopontin with fibronectin and other extracellular matrix molecules. <i>Annals of the New York Academy of Sciences</i> , <b>1995</b> , 760, 201-12	6.5	61
80	Transglutaminase-catalyzed incorporation of polyamines into phospholipase A2. <i>Journal of Biochemistry</i> , <b>1993</b> , 113, 164-73	3.1	56
79	Presence of di- and polyamines covalently bound to protein in rat liver. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1985</b> , 841, 120-6	4	53
78	Targeting tumor cells through chitosan-folate modified microcapsules loaded with camptothecin. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 1066-72	6.3	49
77	Enhancement of transglutaminase activity and polyamine depletion in B16-F10 melanoma cells by flavonoids naringenin and hesperitin correlate to reduction of the in vivo metastatic potential. <i>Amino Acids</i> , <b>2007</b> , 32, 95-100	3.5	49
76	Glucocorticoids and oxidative stress. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , <b>2007</b> , 18, 115-27	1.6	46
75	Transglutaminase activity is involved in polyamine-induced programmed cell death. <i>Experimental Cell Research</i> , <b>2001</b> , 271, 118-29	4.2	44
74	Differences in the post-translational modification of proteins by polyamines between weakly and highly metastatic B16 melanoma cells. <i>International Journal of Cancer</i> , <b>1993</b> , 53, 792-7	7.5	44
73	Covalent incorporation of polyamines as gamma-glutamyl derivatives into CHO cell protein. <i>BBA - Proteins and Proteomics</i> , <b>1988</b> , 952, 325-33		41
72	Interferon alpha2 recombinant and epidermal growth factor modulate proliferation and hypusine synthesis in human epidermoid cancer KB cells. <i>Biochemical Journal</i> , <b>1997</b> , 324 ( Pt 3), 737-41	3.8	40
71	High-performance liquid chromatographic method for the determination of epsilon-(gamma-glutamyl)lysine and mono- and bis-gamma-glutamyl derivatives of putrescine and spermidine. <i>Journal of Chromatography A</i> , <b>1988</b> , 443, 329-35	4.5	39

70	Identification of Transglutaminase Activity in the Leaves of Silver Beet ( <i>Beta vulgaris</i> L.). <i>Journal of Plant Physiology</i> , <b>1991</b> , 137, 547-552	3.6	38
69	Polyamines in frontal cortex of patients with Down syndrome and Alzheimer disease. <i>Neuroscience Letters</i> , <b>1996</b> , 206, 193-5	3.3	37
68	Inhibition of melanoma pulmonary metastasis by methylxanthines due to decreased invasion and proliferation. <i>Melanoma Research</i> , <b>1998</b> , 8, 131-7	3.3	36
67	Aloe-emodin exerts a potent anticancer and immunomodulatory activity on BRAF-mutated human melanoma cells. <i>European Journal of Pharmacology</i> , <b>2015</b> , 762, 283-92	5.3	32
66	Anthraquinones danthron and quinizarin exert antiproliferative and antimetastatic activity on murine B16-F10 melanoma cells. <i>Anticancer Research</i> , <b>2010</b> , 30, 445-9	2.3	32
65	Aloin enhances cisplatin antineoplastic activity in B16-F10 melanoma cells by transglutaminase-induced differentiation. <i>Amino Acids</i> , <b>2013</b> , 44, 293-300	3.5	31
64	Similar antineoplastic effects of nimesulide, a selective COX-2 inhibitor, and prostaglandin E1 on B16-F10 murine melanoma cells. <i>Melanoma Research</i> , <b>2010</b> , 20, 273-9	3.3	28
63	Protein-polyamine conjugation by transglutaminase in cancer cell differentiation: review article. <i>Amino Acids</i> , <b>2004</b> , 26, 331-7	3.5	28
62	Antineoplastic activity of strawberry ( <i>Fragaria vesca</i> Duch.) crude extracts on B16-F10 melanoma cells. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 1255-63		26
61	Inhibition of cell proliferation, migration and invasion of B16-F10 melanoma cells by ß-mangostin. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 450, 1512-7	3.4	26
60	Transglutaminase-catalyzed polymerization of troponin in vitro. <i>Biochemical and Biophysical Research Communications</i> , <b>1995</b> , 206, 201-6	3.4	25
59	Cystamine potently suppresses in vitro HIV replication in acutely and chronically infected human cells. <i>Journal of Clinical Investigation</i> , <b>1994</b> , 93, 2251-7	15.9	25
58	Aloe-emodin as antiproliferative and differentiating agent on human U937 monoclonal leukemia cells. <i>Life Sciences</i> , <b>2011</b> , 89, 812-20	6.8	23
57	Transglutaminase-dependent antiproliferative and differentiative properties of nimesulide on B16-F10 mouse melanoma cells. <i>Amino Acids</i> , <b>2010</b> , 38, 257-62	3.5	23
56	Alternative therapy of earth elements increases the chondroprotective effects of chondroitin sulfate in mice. <i>Experimental and Molecular Medicine</i> , <b>2005</b> , 37, 476-81	12.8	23
55	The role of L-arginine in toxic liver failure: interrelation of arginase, polyamine catabolic enzymes and nitric oxide synthase. <i>Amino Acids</i> , <b>2007</b> , 32, 127-31	3.5	22
54	Transglutaminases: key regulators of cancer metastasis. <i>Amino Acids</i> , <b>2013</b> , 44, 25-32	3.5	21
53	In vivo evaluation of type 2 transglutaminase contribution to the metastasis formation in melanoma. <i>Amino Acids</i> , <b>2009</b> , 36, 717-24	3.5	21

52	Evaluation of the efficacy of potential antineoplastic drugs on tumour metastasis by a computer-assisted image analysis. <i>European Journal of Cancer</i> , <b>2000</b> , 36, 1572-7	7.5	21
51	Theophylline administration markedly reduces hepatic and pulmonary implantation of B16-F10 melanoma cells in mice. <i>Melanoma Research</i> , <b>2000</b> , 10, 435-43	3.3	20
50	Etocopherol inhibits human prostate cancer cell proliferation by up-regulation of transglutaminase 2 and down-regulation of cyclins. <i>Amino Acids</i> , <b>2013</b> , 44, 45-51	3.5	19
49	Protein-polyamine conjugates by transglutaminase 2 as potential markers for antineoplastic screening of natural compounds. <i>Amino Acids</i> , <b>2009</b> , 36, 701-8	3.5	18
48	Phytochemicals and protein-polyamine conjugates by transglutaminase as chemopreventive and chemotherapeutic tools in cancer. <i>Plant Physiology and Biochemistry</i> , <b>2010</b> , 48, 627-33	5.4	18
47	Theophylline-induced apoptosis is paralleled by protein kinase A-dependent tissue transglutaminase activation in cancer cells. <i>Journal of Biochemistry</i> , <b>2002</b> , 132, 45-52	3.1	18
46	Inhibition of deoxyhypusine hydroxylase by polyamines and by a deoxyhypusine peptide. <i>BBA - Proteins and Proteomics</i> , <b>1989</b> , 997, 248-55		16
45	The Role of Tissue Transglutaminase in Cancer Cell Initiation, Survival and Progression. <i>Medical Sciences (Basel, Switzerland)</i> , <b>2019</b> , 7,	3.3	15
44	Chemical Composition of Essential Oils from <i>Thymus vulgaris</i> , <i>Cymbopogon citratus</i> , and <i>Rosmarinus officinalis</i> , and Their Effects on the HIV-1 Tat Protein Function. <i>Chemistry and Biodiversity</i> , <b>2018</b> , 15, e1700436	2.5	15
43	High-performance liquid chromatographic method for determination of hypusine and deoxyhypusine. <i>Analytical Biochemistry</i> , <b>1990</b> , 184, 16-20	3.1	15
42	Covalent polyamine-protein conjugates: analysis and distribution. <i>Advances in Experimental Medicine and Biology</i> , <b>1988</b> , 250, 411-22	3.6	15
41	Tissue transglutaminase expression affects hypusine metabolism in BALB/c 3T3 cells. <i>FEBS Letters</i> , <b>1998</b> , 437, 34-8	3.8	14
40	Evidences for a role of protein cross-links in transglutaminase-related disease. <i>Amino Acids</i> , <b>2012</b> , 42, 975-86	3.5	13
39	Translational and post-translational modifications of proteins as a new mechanism of action of alpha-interferon: review article. <i>Amino Acids</i> , <b>2004</b> , 26, 409-17	3.5	13
38	Tissue transglutaminase activity protects from cutaneous melanoma metastatic dissemination: an in vivo study. <i>Amino Acids</i> , <b>2013</b> , 44, 53-61	3.5	12
37	Antitumor activity of theophylline in combination with Paclitaxel: a preclinical study on melanoma experimental lung metastasis. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2010</b> , 25, 497-503	3.9	12
36	Polymeric protein-polyamine conjugates: a new class of uremic toxins affecting erythropoiesis. <i>Kidney International</i> , <b>2001</b> , 78, S73-6	9.9	12
35	Flavonoids: A Myth or a Reality for Cancer Therapy?. <i>Molecules</i> , <b>2021</b> , 26,	4.8	12

34	Spotlight on the transglutaminase 2 gene: a focus on genomic and transcriptional aspects. <i>Biochemical Journal</i> , <b>2018</b> , 475, 1643-1667	3.8	12
33	Spermidine delays eye lens opacification in vitro by suppressing transglutaminase-catalyzed crystallin cross-linking. <i>Protein Journal</i> , <b>2011</b> , 30, 109-14	3.9	11
32	Role of transglutaminase 2 in quercetin-induced differentiation of B16-F10 murine melanoma cells. <i>Amino Acids</i> , <b>2009</b> , 36, 731-8	3.5	11
31	Impairment of the metastatic activity of melanoma cells by transglutaminase-catalyzed incorporation of polyamines into laminin and Matrigel. <i>Amino Acids</i> , <b>2008</b> , 34, 251-6	3.5	11
30	A novel transglutaminase-catalyzed posttranslational modification of HIV-1 aspartyl protease. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 187, 1211-8	3.4	11
29	A new method for qualitative and quantitative determination of di- and polyamines in animal tissues by gas-liquid chromatography. <i>Analytical Biochemistry</i> , <b>1977</b> , 80, 101-7	3.1	11
28	Gradual Exposure to Salinity Improves Tolerance to Salt Stress in Rapeseed ( <i>Brassica napus</i> L.). <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1667	3	10
27	Expression of different forms of transglutaminases by immature cells of <i>Helianthus tuberosus</i> sprout apices. <i>Amino Acids</i> , <b>2013</b> , 44, 271-83	3.5	10
26	Transglutaminase participates in the blockade of neurotransmitter release by tetanus toxin: evidence for a novel biological function. <i>Amino Acids</i> , <b>2010</b> , 39, 257-69	3.5	10
25	Does polyamine oxidase activity influence the oxidative metabolism of children who suffer of diabetes mellitus?. <i>Molecular and Cellular Biochemistry</i> , <b>2010</b> , 341, 79-85	4.2	10
24	Evaluation of polyamines as marker of melanoma cell proliferation and differentiation by an improved high-performance liquid chromatographic method. <i>Amino Acids</i> , <b>2019</b> , 51, 1623-1631	3.5	8
23	Hippocampal polyamine levels and transglutaminase activity are paralleling spatial memory retrieval in the C57BL/6J mouse. <i>Hippocampus</i> , <b>2012</b> , 22, 1068-74	3.5	8
22	Preclinical evaluation of the antineoplastic efficacy of 7-(2-hydroxyethyl)theophylline on melanoma cancer cells. <i>Melanoma Research</i> , <b>2012</b> , 22, 133-9	3.3	8
21	Somatostatin analogues, a series of tissue transglutaminase inducers, as a new tool for therapy of mesenchymal tumors of the gastrointestinal tract. <i>Amino Acids</i> , <b>2007</b> , 32, 395-400	3.5	8
20	Age-related changes of glycosylation pattern in isolated rat hepatocytes. <i>Mechanisms of Ageing and Development</i> , <b>1990</b> , 56, 169-78	5.6	8
19	PVA engineered microcapsules for targeted delivery of camptothecin to HeLa cells. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 1653-1659	8.3	7
18	Post-translational modification of glutamine and lysine residues of HIV-1 aspartyl protease by transglutaminase increases its catalytic activity. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 393, 546-50	3.4	7
17	A protein produced by a monocytic human cell line can induce apoptosis on tumor cells. <i>FEBS Letters</i> , <b>1994</b> , 344, 35-40	3.8	7

16	Selected terpenes from leaves of <i>Ocimum basilicum</i> L. induce hemoglobin accumulation in human K562 cells. <i>Phytotherapy Research</i> , <b>2018</b> , 127, 173-178	3.2	6
15	Decrease of polyamine levels and enhancement of transglutaminase activity in selective reduction of B16-F10 melanoma cell proliferation induced by atrial natriuretic peptide. <i>Melanoma Research</i> , <b>2006</b> , 16, 501-7	3.3	6
14	Mechanism of release of integral proteins from rat liver microsomal membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1983</b> , 731, 151-60	3.8	6
13	Amelioration of salt stress tolerance in rapeseed ( <i>Brassica napus</i> ) cultivars by seed inoculation with <i>Arthrobacter globiformis</i> . <i>Plant Biosystems</i> , <b>2021</b> , 1-14	1.6	6
12	Assessment of the antiproliferative activity on murine melanoma cells of extracts from elicited cell suspensions of strawberry, strawberry tree, blackberry and red raspberry. <i>Plant Biosystems</i> , <b>2016</b> , 150, 1233-1239	1.6	5
11	Involvement of cell surface TG2 in the aggregation of K562 cells triggered by gluten. <i>Amino Acids</i> , <b>2017</b> , 49, 551-565	3.5	5
10	Caffeic Acid Enhances the Anti-Leukemic Effect of Imatinib on Chronic Myeloid Leukemia Cells and Triggers Apoptosis in Cells Sensitive and Resistant to Imatinib. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
9	Enhancement of Tolerance to High Saline Conditions by Seed Priming. <i>Plants</i> , <b>2021</b> , 10,	4.5	5
8	Structural organization of the human eukaryotic initiation factor 5A precursor and its site-directed variant Lys50→Arg. <i>Amino Acids</i> , <b>1999</b> , 16, 91-106	3.5	3
7	Transglutaminase expression in rat parotid gland after isoproterenol stimulation. <i>Journal of Dental Research</i> , <b>1989</b> , 68, 1474-8	8.1	3
6	Reduction of oxidative stress and ornithine decarboxylase expression in a human prostate cancer cell line PC-3 by a combined treatment with Tocopherol and naringenin. <i>Amino Acids</i> , <b>2021</b> , 53, 63-72	3.5	3
5	Selenomethionine induces polyamine biosynthesis in regenerating rat liver tissue. <i>Amino Acids</i> , <b>2007</b> , 33, 525-9	3.5	2
4	Role of the FAD-dependent polyamine oxidase in the selective formation of N(1),N(8)-bis(gamma-glutamyl)spermidine protein cross-links(1). <i>Biochemical Society Transactions</i> , <b>2007</b> , 35, 396-400	5.1	2
3	Targeting Melanoma-Initiating Cells by Caffeine: In Silico and In Vitro Approaches. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
2	Layered Double Hydroxides as a Drug Delivery Vehicle for S-Allyl-Mercapto-Cysteine (SAMC). <i>Processes</i> , <b>2021</b> , 9, 1819	2.9	1
1	Polyamine-derived post-translational modification of glutamine residues in intracellular proteins <b>1990</b> , 821-827		1