

# Umberto Laforenza

## List of Publications by Year in descending order

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83  
papers

3,266  
citations

109137

35  
h-index

168136

53  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3080  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water channel proteins in the gastrointestinal tract. <i>Molecular Aspects of Medicine</i> , 2012, 33, 642-650.	2.7	146
2	Vascular Endothelial Growth Factor Stimulates Endothelial Colony Forming Cells Proliferation and Tubulogenesis by Inducing Oscillations in Intracellular Ca <sup>2+</sup> Concentration. <i>Stem Cells</i> , 2011, 29, 1898-1907.	1.4	140
3	Thiamine Intestinal Transport and Related Issues: Recent Aspects. <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 2000, 224, 246-255.	2.0	124
4	Store-Operated Ca <sup>2+</sup> Entry Is Remodelled and Controls In Vitro Angiogenesis in Endothelial Progenitor Cells Isolated from Tumoral Patients. <i>PLoS ONE</i> , 2012, 7, e42541.	1.1	121
5	Store-Dependent Ca <sup>2+</sup> Entry in Endothelial Progenitor Cells As a Perspective Tool to Enhance Cell-Based Therapy and Adverse Tumour Vascularization. <i>Current Medicinal Chemistry</i> , 2012, 19, 5802-5818.	1.2	108
6	Store-Operated Ca <sup>2+</sup> Entry Is Expressed in Human Endothelial Progenitor Cells. <i>Stem Cells and Development</i> , 2010, 19, 1967-1981.	1.1	104
7	Human adipose glycerol flux is regulated by a pH gate in AQP10. <i>Nature Communications</i> , 2018, 9, 4749.	5.8	90
8	Aquaporin-10 Represents an Alternative Pathway for Glycerol Efflux from Human Adipocytes. <i>PLoS ONE</i> , 2013, 8, e54474.	1.1	86
9	Stress Regulates Aquaporin-8 Permeability to Impact Cell Growth and Survival. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 1031-1044.	2.5	82
10	Thiamine Intestinal Transport and Related Issues: Recent Aspects. <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 2000, 224, 246-255.	2.0	78
11	Canonical Transient Receptor Potential 3 Channel Triggers Vascular Endothelial Growth Factor-Induced Intracellular Ca <sup>2+</sup> Oscillations in Endothelial Progenitor Cells Isolated from Umbilical Cord Blood. <i>Stem Cells and Development</i> , 2013, 22, 2561-2580.	1.1	74
12	Thiamine uptake in human intestinal biopsy specimens, including observations from a patient with acute thiamine deficiency. <i>American Journal of Clinical Nutrition</i> , 1997, 66, 320-326.	2.2	71
13	Further studies on erythrocyte thiamin transport and phosphorylation in seven patients with thiamin-responsive megaloblastic anaemia. <i>Journal of Inherited Metabolic Disease</i> , 1994, 17, 667-677.	1.7	66
14	Expression and immunolocalization of aquaporin-7 in rat gastrointestinal tract. <i>Biology of the Cell</i> , 2005, 97, 605-613.	0.7	62
15	EFFECTS OF ACUTE AND CHRONIC ETHANOL ADMINISTRATION ON THIAMINE METABOLIZING ENZYMES IN SOME BRAIN AREAS AND IN OTHER ORGANS OF THE RAT. <i>Alcohol and Alcoholism</i> , 1990, 25, 591-603.	0.9	61
16	Ca <sup>2+</sup> Signalling in Endothelial Progenitor Cells: A Novel Means to Improve Cell-Based Therapy and Impair Tumour Vascularisation. <i>Current Vascular Pharmacology</i> , 2014, 12, 87-105.	0.8	61
17	Granular Layer Neurons Control Cerebellar Neurovascular Coupling Through an NMDA Receptor/NO-Dependent System. <i>Journal of Neuroscience</i> , 2017, 37, 1340-1351.	1.7	61
18	Enhanced Expression of Stim, Orai, and TRPC Transcripts and Proteins in Endothelial Progenitor Cells Isolated from Patients with Primary Myelofibrosis. <i>PLoS ONE</i> , 2014, 9, e91099.	1.1	60

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19	Post-Transcriptional Regulation of HSP70 Expression Following Oxidative Stress in SH-SY5Y Cells: The Potential Involvement of the RNA-Binding Protein HuR. <i>Current Pharmaceutical Design</i> , 2008, 14, 2651-2658.	0.9	59
20	Parameter tuning differentiates granule cell subtypes enriching transmission properties at the cerebellum input stage. <i>Communications Biology</i> , 2020, 3, 222.	2.0	59
21	SOD1 mRNA expression in sporadic amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2010, 39, 198-203.	2.1	57
22	Post-transcriptional Regulation of Neuro-oncological Ventral Antigen 1 by the Neuronal RNA-binding Proteins ELAV. <i>Journal of Biological Chemistry</i> , 2008, 283, 7531-7541.	1.6	56
23	Mammalian aquaglyceroporin function in metabolism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1-11.	1.4	54
24	Aquaporin-Mediated Water and Hydrogen Peroxide Transport Is Involved in Normal Human Spermatozoa Functioning. <i>International Journal of Molecular Sciences</i> , 2017, 18, 66.	1.8	54
25	Store-Operated Ca <sup>2+</sup> Entry Does Not Control Proliferation in Primary Cultures of Human Metastatic Renal Cellular Carcinoma. <i>BioMed Research International</i> , 2014, 2014, 1-19.	0.9	51
26	Constitutive Store-Operated Ca <sup>2+</sup> Entry Leads to Enhanced Nitric Oxide Production and Proliferation in Infantile Hemangioma-Derived Endothelial Colony-Forming Cells. <i>Stem Cells and Development</i> , 2016, 25, 301-319.	1.1	51
27	Aquaporin-8 Is Involved in Water Transport in Isolated Superficial Colonocytes from Rat Proximal Colon. <i>Journal of Nutrition</i> , 2005, 135, 2329-2336.	1.3	45
28	A Functional Transient Receptor Potential Vanilloid 4 (TRPV4) Channel Is Expressed in Human Endothelial Progenitor Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 95-104.	2.0	45
29	Honey-Mediated Wound Healing: H <sub>2</sub> O <sub>2</sub> Entry through AQP3 Determines Extracellular Ca <sup>2+</sup> Influx. <i>International Journal of Molecular Sciences</i> , 2019, 20, 764.	1.8	44
30	Solute transporters and aquaporins are impaired in celiac disease. <i>Biology of the Cell</i> , 2010, 102, 457-467.	0.7	43
31	Thiamine transport by erythrocytes and ghosts in thiamine-responsive megaloblastic anaemia. <i>Journal of Inherited Metabolic Disease</i> , 1992, 15, 231-242.	1.7	42
32	Hematopoietic Progenitor and Stem Cells Circulate by Surfing on Intracellular Ca <sup>2+</sup> Waves: A Novel Target for Cell-based Therapy and Anti-cancer Treatment?. <i>Current Signal Transduction Therapy</i> , 2012, 7, 161-176.	0.3	41
33	VEGF-induced intracellular Ca <sup>2+</sup> oscillations are down-regulated and do not stimulate angiogenesis in breast cancer-derived endothelial colony forming cells. <i>Oncotarget</i> , 2017, 8, 95223-95246.	0.8	41
34	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Induces Intracellular Ca <sup>2+</sup> Release through the Two-Pore Channel TPC1 in Metastatic Colorectal Cancer Cells. <i>Cancers</i> , 2019, 11, 542.	1.7	41
35	Posttranscriptional regulation of SOD1 gene expression under oxidative stress: Potential role of ELAV proteins in sporadic ALS. <i>Neurobiology of Disease</i> , 2013, 60, 51-60.	2.1	40
36	Muscarinic M5 receptors trigger acetylcholine-induced Ca <sup>2+</sup> signals and nitric oxide release in human brain microvascular endothelial cells. <i>Journal of Cellular Physiology</i> , 2019, 234, 4540-4562.	2.0	38

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37	Stim and Orai mediate constitutive Ca <sup>2+</sup> entry and control endoplasmic reticulum Ca <sup>2+</sup> refilling in primary cultures of colorectal carcinoma cells. <i>Oncotarget</i> , 2018, 9, 31098-31119.	0.8	36
38	Transport of thiamin in rat renal brush border membrane vesicles. <i>Kidney International</i> , 2000, 57, 2043-2054.	2.6	35
39	Thiamine outflow from the enterocyte: a study using basolateral membrane vesicles from rat small intestine.. <i>Journal of Physiology</i> , 1993, 468, 401-412.	1.3	32
40	Regulation of Aquaporin Functional Properties Mediated by the Antioxidant Effects of Natural Compounds. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2665.	1.8	32
41	Group 1 metabotropic glutamate receptors trigger glutamate-induced intracellular Ca <sup>2+</sup> signals and nitric oxide release in human brain microvascular endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2235-2253.	2.4	32
42	A Thiamine/H + Antiport Mechanism for Thiamine Entry into Brush Border Membrane Vesicles from Rat Small Intestine. <i>Journal of Membrane Biology</i> , 1998, 161, 151-161.	1.0	31
43	Aquaporin-6 is expressed along the rat gastrointestinal tract and upregulated by feeding in the small intestine. <i>BMC Physiology</i> , 2009, 9, 18.	3.6	31
44	Blood?Brain Transport of Thiamine Monophosphate in the Rat: A Kinetic Study In Vivo. <i>Journal of Neurochemistry</i> , 1988, 50, 90-93.	2.1	29
45	Cardiac Microvascular Endothelial Cells Express a Functional Ca <sup>2+</sup> -Sensing Receptor. <i>Journal of Vascular Research</i> , 2009, 46, 73-82.	0.6	29
46	Impaired aquaporins expression in the gastrointestinal tract of rat after mercury exposure. <i>Journal of Applied Toxicology</i> , 2016, 36, 113-120.	1.4	28
47	Histamine induces intracellular Ca <sup>2+</sup> oscillations and nitric oxide release in endothelial cells from brain microvascular circulation. <i>Journal of Cellular Physiology</i> , 2020, 235, 1515-1530.	2.0	28
48	Osmotic water permeability of rat intestinal brush border membrane vesicles: involvement of aquaporin-7 and aquaporin-8 and effect of metal ions. <i>Biochemistry and Cell Biology</i> , 2007, 85, 675-684.	0.9	27
49	Propolis Induces AQP3 Expression: A Possible Way of Action in Wound Healing. <i>Molecules</i> , 2019, 24, 1544.	1.7	27
50	Riboflavin Phosphorylation Is the Crucial Event in Riboflavin Transport by Isolated Rat Enterocytes. <i>Journal of Nutrition</i> , 2000, 130, 2556-2561.	1.3	26
51	Distribution of Thiamine, Thiamine Phosphates, and Thiamine Metabolizing Enzymes in Neuronal and Glial Cell Enriched Fractions of Rat Brain. <i>Journal of Neurochemistry</i> , 1988, 51, 730-735.	2.1	25
52	Lipophilic thiamine treatment in long-standing insulin-dependent diabetes mellitus. <i>Acta Diabetologica</i> , 1999, 36, 73-76.	1.2	22
53	Nicotinic acid adenine dinucleotide phosphate activates two-pore channel TPC1 to mediate lysosomal Ca <sup>2+</sup> release in endothelial colony-forming cells. <i>Journal of Cellular Physiology</i> , 2021, 236, 688-705.	2.0	22
54	HPV Infection Affects Human Sperm Functionality by Inhibition of Aquaporin-8. <i>Cells</i> , 2020, 9, 1241.	1.8	21

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55	Jejunal Creatine Absorption: What is the Role of the Basolateral Membrane?. <i>Journal of Membrane Biology</i> , 2005, 207, 183-195.	1.0	20
56	NMDA receptors elicit flux-independent intracellular Ca <sup>2+</sup> signals via metabotropic glutamate receptors and flux-dependent nitric oxide release in human brain microvascular endothelial cells. <i>Cell Calcium</i> , 2021, 99, 102454.	1.1	18
57	Thiamin Contents of Cerebrospinal Fluid, Plasma and Erythrocytes in Cerebellar Ataxias. <i>European Neurology</i> , 1992, 32, 154-158.	0.6	17
58	Age-related thiamin transport by small intestinal microvillous vesicles of rat. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1105, 271-277.	1.4	16
59	Transglutaminase 2 in the enterocytes is coeliac specific and gluten dependent. <i>Digestive and Liver Disease</i> , 2006, 38, 652-658.	0.4	16
60	EFFECT OF ETHANOL ADMINISTRATION ON THE IN VIVO KINETICS OF THIAMINE PHOSPHORYLATION AND DEPHOSPHORYLATION IN DIFFERENT ORGANS. I. CHRONIC EFFECTS. <i>Alcohol and Alcoholism</i> , 1991, 26, 285-301.	0.9	14
61	Energy Depletion Differently Affects Membrane Transport and Intracellular Metabolism of Riboflavin Taken up by Isolated Rat Enterocytes. <i>Journal of Nutrition</i> , 1999, 129, 406-409.	1.3	14
62	Molecular characteristics of small intestinal and renal brush border thiamin transporters in rats. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1558, 187-197.	1.4	13
63	Aquaporin-6 May Increase the Resistance to Oxidative Stress of Malignant Pleural Mesothelioma Cells. <i>Cells</i> , 2022, 11, 1892.	1.8	13
64	Facilitated Transport of Lactate by Rat Jejunal Enterocyte. <i>Journal of Membrane Biology</i> , 1997, 158, 257-264.	1.0	12
65	Intestinal transport of thiamin and thiamin monophosphate in rat everted jejunal sacs: A comparative study using some potential inhibitors. <i>Archives Internationales De Physiologie Et De Biochimie</i> , 1988, 96, 223-230.	0.2	11
66	Thiamin mono- and pyrophosphatase activities from brain homogenate of Guamanian amyotrophic lateral sclerosis and parkinsonism-dementia patients. <i>Journal of the Neurological Sciences</i> , 1992, 109, 156-161.	0.3	11
67	[14] In vitro systems for studying thiamin transport in mammals. <i>Methods in Enzymology</i> , 1997, 279, 118-131.	0.4	11
68	Altered expression of aquaporin 4 and H <sup>+</sup> /K <sup>+</sup> -ATPase in the stomachs of peptide YY (PYY) transgenic mice. <i>Biology of the Cell</i> , 2005, 97, 735-742.	0.7	11
69	Guanidine Transport across the Apical and Basolateral Membranes of Human Intestinal Caco-2 Cells Is Mediated by Two Different Mechanisms. <i>Journal of Nutrition</i> , 2002, 132, 1995-2003.	1.3	10
70	Sigma-1 Receptor Agonists Acting on Aquaporin-Mediated H <sub>2</sub> O <sub>2</sub> Permeability: New Tools for Counteracting Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9790.	1.8	10
71	Non-Linear Frequency Dependence of Neurovascular Coupling in the Cerebellar Cortex Implies Vasodilationâ€™Vasoconstriction Competition. <i>Cells</i> , 2022, 11, 1047.	1.8	10
72	Oxidative stress reduces transintestinal transports and (Na <sup>+</sup> , K <sup>+</sup> )-ATPase activity in rat jejunum. <i>Archives of Biochemistry and Biophysics</i> , 2007, 466, 300-307.	1.4	9

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73	Manuka Honey Induces Apoptosis of Epithelial Cancer Cells through Aquaporin-3 and Calcium Signaling. <i>Life</i> , 2020, 10, 256.	1.1	9
74	Human sperm functioning is related to the aquaporin-mediated water and hydrogen peroxide transport regulation. <i>Biochimie</i> , 2021, 188, 45-51.	1.3	9
75	Histamine H1 receptors are expressed in mouse and frog semicircular canal sensory epithelia. <i>NeuroReport</i> , 2008, 19, 425-429.	0.6	8
76	Aquaporin-6 Expression in the Cochlear Sensory Epithelium Is Downregulated by Salicylates. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-8.	3.0	7
77	Setup and Validation of a Reliable Docking Protocol for the Development of Neuroprotective Agents by Targeting the Sigma-1 Receptor (S1R). <i>International Journal of Molecular Sciences</i> , 2020, 21, 7708.	1.8	6
78	Acute and chronic acidosis influence on antioxidant equipment and transport proteins of rat jejunal enterocyte. <i>Cell Biology International</i> , 2011, 35, 345-353.	1.4	5
79	Proton-lactate co transport in basolateral membrane vesicles from rat jejunum. <i>Bioscience Reports</i> , 1996, 16, 521-527.	1.1	3
80	Protein Kinase C Regulation of Rat Jejunal Transport Systems: Mechanisms Involved in Bicarbonate Absorption. <i>Experimental Physiology</i> , 2002, 87, 299-309.	0.9	3
81	PYY-Tag Transgenic Mice Displaying Abnormal (H <sup>+</sup> -K <sup>+</sup> )ATPase Activity and Gastric Mucosal Barrier Impairment. <i>Laboratory Investigation</i> , 2003, 83, 47-54.	1.7	2
82	PKA Regulation of Bicarbonate and Lactate Movements Across Rat Jejunal Plasma Membranes. <i>Cellular Physiology and Biochemistry</i> , 2004, 14, 77-90.	1.1	2
83	Expression and Localization of Ryanodine Receptors in the Frog Semicircular Canal. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-6.	3.0	2