Ovidio Bussolati

List of Publications by Citations

128 papers	3,602 citations	36 h-index	54 g-index
135 ext. papers	4,101 ext. citations	4.4 avg, IF	4.79 L-index

#	Paper	IF	Citations
128	Copper binding agents acting as copper ionophores lead to caspase inhibition and paraptotic cell death in human cancer cells. *Journal of the American Chemical Society*, **2011**, 133, 6235-42	16.4	185
127	Copper-dependent cytotoxicity of 8-hydroxyquinoline derivatives correlates with their hydrophobicity and does not require caspase activation. *Journal of Medicinal Chemistry*, **2012**, 55, 10448-59	8.3	138
126	Comprehensive In Vitro Toxicity Testing of a Panel of Representative Oxide Nanomaterials: First Steps towards an Intelligent Testing Strategy. *PLoS ONE*, **2015**, 10, e0127174	3.7	117
125	Toxicity determinants of multi-walled carbon nanotubes: The relationship between functionalization and agglomeration. *Toxicology Reports*, **2016**, 3, 230-243	4.8	116
124	The thioxotriazole copper(II) complex A0 induces endoplasmic reticulum stress and paraptotic death in human cancer cells. *Journal of Biological Chemistry*, **2009**, 284, 24306-19	5.4	102
123	In human endothelial cells rapamycin causes mTORC2 inhibition and impairs cell viability and function. *Cardiovascular Research*, **2008**, 78, 563-71	9.9	88
122	Amino acid starvation induces the SNAT2 neutral amino acid transporter by a mechanism that involves eukaryotic initiation factor 2alpha phosphorylation and cap-independent translation. *Journal of Biological Chemistry*, **2006**, 281, 17929-40	5.4	87
121	Comparison of annexin V and calcein-AM as early vital markers of apoptosis in adherent cells by confocal laser microscopy. *Journal of Histochemistry and Cytochemistry*, **1998**, 46, 895-900	3.4	85
120	Dependence on glutamine uptake and glutamine addiction characterize myeloma cells: a new attractive target. *Blood*, **2016**, 128, 667-79	2.2	85
119	Non-functionalized multi-walled carbon nanotubes alter the paracellular permeability of human airway epithelial cells. *Toxicology Letters*, **2008**, 178, 95-102	4.4	81
118	A self-defeating anabolic program leads to β-cell apoptosis in endoplasmic reticulum stress-induced diabetes via regulation of amino acid flux. *Journal of Biological Chemistry*, **2013**, 288, 17202-13	5.4	80
117	HIF-independent role of prolyl hydroxylases in the cellular response to amino acids. *Oncogene*, **2013**, 32, 4549-56	9.2	79
116	The adaptive regulation of amino acid transport system A is associated to changes in ATA2 expression. *FEBS Letters*, **2001**, 490, 11-4	3.8	73
115	The stimulation of Na,K,Cl cotransport and of system A for neutral amino acid transport is a mechanism for cell volume increase during the cell cycle. *FASEB Journal*, **1996**, 10, 920-6	0.9	72
114	Expanding targets for a metabolic therapy of cancer: L-asparaginase. *Recent Patents on Anti-Cancer Drug Discovery*, **2012**, 7, 4-13	2.6	69
113	Oxidative stress induced by copper and iron complexes with 8-hydroxyquinoline derivatives causes paraptotic death of HeLa cancer cells. *Molecular Pharmaceutics*, **2014**, 11, 1151-63	5.6	63
112	Thioamido coordination in a thioxo-1,2,4-triazole copper(II) complex enhances nonapoptotic programmed cell death associated with copper accumulation and oxidative stress in human cancer cells. *Journal of Medicinal Chemistry*, **2007**, 50, 1916-24	8.3	63

111	Adaptive increase of amino acid transport system A requires ERK1/2 activation. *Journal of Biological Chemistry*, **1999**, 274, 28922-8	5.4	63
110	hERG1 channels modulate integrin signaling to trigger angiogenesis and tumor progression in colorectal cancer. *Scientific Reports*, **2013**, 3, 3308	4.9	58
109	The role of the neutral amino acid transporter SNAT2 in cell volume regulation. *Acta Physiologica*, **2006**, 187, 273-83	5.6	57
108	Characterization of apoptotic phenomena induced by treatment with L-asparaginase in NIH3T3 cells. *Experimental Cell Research*, **1995**, 220, 283-91	4.2	55
107	Membrane potential changes visualized in complete growth media through confocal laser scanning microscopy of bis-oxonol-loaded cells. *Experimental Cell Research*, **1997**, 231, 260-8	4.2	54
106	Two-way arginine transport in human endothelial cells: TNF-alpha stimulation is restricted to system y(+). *American Journal of Physiology - Cell Physiology*, **2002**, 282, C134-43	5.4	53
105	Changes in the expression of the glutamate transporter EAAT3/EAAC1 in health and disease. *Cellular and Molecular Life Sciences*, **2014**, 71, 2001-15	10.3	50
104	Amino acids are compatible osmolytes for volume recovery after hypertonic shrinkage in vascular endothelial cells. *American Journal of Physiology - Cell Physiology*, **1999**, 276, C865-72	5.4	50
103	Proinflammatory Effects of Pyrogenic and Precipitated Amorphous Silica Nanoparticles in Innate Immunity Cells. *Toxicological Sciences*, **2016**, 150, 40-53	4.4	48
102	Arginine transport through system y(+)L in cultured human fibroblasts: normal phenotype of cells from LPI subjects. *American Journal of Physiology - Cell Physiology*, **2000**, 279, C1829-37	5.4	48
101	Non-apoptotic programmed cell death induced by a copper(II) complex in human fibrosarcoma cells. *Histochemistry and Cell Biology*, **2006**, 126, 473-82	2.4	45
100	In Lysinuric Protein Intolerance system y+L activity is defective in monocytes and in GM-CSF-differentiated macrophages. *Orphanet Journal of Rare Diseases*, **2010**, 5, 32	4.2	42
99	Asparagine Synthetase in Cancer: Beyond Acute Lymphoblastic Leukemia. *Frontiers in Oncology*, **2019**, 9, 1480	5.3	41
98	Glutamine depletion by crisantaspase hinders the growth of human hepatocellular carcinoma xenografts. *British Journal of Cancer*, **2014**, 111, 1159-67	8.7	39
97	Inhibition of glutamine synthetase triggers apoptosis in asparaginase-resistant cells. *Cellular Physiology and Biochemistry*, **2005**, 15, 281-92	3.9	39
96	Shape-Related Toxicity of Titanium Dioxide Nanofibres. *PLoS ONE*, **2016**, 11, e0151365	3.7	39
95	GPNA inhibits the sodium-independent transport system L for neutral amino acids. *Amino Acids*, **2017**, 49, 1365-1372	3.5	36
94	L-Asparaginase and inhibitors of glutamine synthetase disclose glutamine addiction of β-catenin-mutated human hepatocellular carcinoma cells. *Current Cancer Drug Targets*, **2011**, 11, 929-43	2.8	36

93	C6 glioma cells differentiated by retinoic acid overexpress the glutamate transporter excitatory amino acid carrier 1 (EAAC1). *Neuroscience*, **2008**, 151, 1042-52	3.9	36
92	Thermal treatment to increase titanium wettability induces selective proteins adsorption from blood serum thus affecting osteoblasts adhesion. *Materials Science and Engineering C*, **2020**, 107, 110250	8.3	35
91	The synthesis of SNAT2 transporters is required for the hypertonic stimulation of system A transport activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1667, 157-66	3.8	34
90	Role of Amino Acid Transport System A in the Control of Cell Volume in Cultured Human Fibroblasts. *Cellular Physiology and Biochemistry*, **1991**, 1, 131-142	3.9	33
89	The role of system A for neutral amino acid transport in the regulation of cell volume. *Molecular Membrane Biology*, **2001**, 18, 27-38	3.4	31
88	Arginine transport in human monocytic leukemia THP-1 cells during macrophage differentiation. *Journal of Leukocyte Biology*, **2011**, 90, 293-303	6.5	30
87	Amino acid depletion activates TonEBP and sodium-coupled inositol transport. *American Journal of Physiology - Cell Physiology*, **2001**, 280, C1465-74	5.4	30
86	Impaired phagocytosis in macrophages from patients affected by lysinuric protein intolerance. *Molecular Genetics and Metabolism*, **2012**, 105, 585-9	3.7	29
85	INFgamma stimulates arginine transport through system y+L in human monocytes. *FEBS Letters*, **2004**, 571, 177-81	3.8	28
84	The inhibition of glutamine synthetase sensitizes human sarcoma cells to L-asparaginase. *Cancer Chemotherapy and Pharmacology*, **2007**, 60, 751-8	3.5	27
83	Identifying contact-mediated, localized toxic effects of MWCNT aggregates on epithelial monolayers: a single-cell monitoring toxicity assay. *Nanotoxicology*, **2015**, 9, 230-41	5.3	26
82	Effect of insulin on the activity of amino acid transport systems in cultured human fibroblasts. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1985**, 844, 216-23	4.9	26
81	Effect of extracellular potassium on amino acid transport and membrane potential in fetal human fibroblasts. *Biochimica Et Biophysica Acta - Biomembranes*, **1986**, 854, 240-50	3.8	26
80	Imogolite: an aluminosilicate nanotube endowed with low cytotoxicity and genotoxicity. *Chemical Research in Toxicology*, **2014**, 27, 1142-54	4	25
79	Glutamine stimulates mTORC1 independent of the cell content of essential amino acids. *Amino Acids*, **2012**, 43, 2561-7	3.5	24
78	Airway barrier dysfunction induced by exposure to carbon nanotubes in vitro: which role for fiber length?. *Human and Experimental Toxicology*, **2009**, 28, 361-8	3.4	24
77	Hypertonicity induces injury to cultured human endothelium: attenuation by glutamine. *Annals of Thoracic Surgery*, **1997**, 64, 1770-5	2.7	24
76	The transport of L-glutamine into cultured human fibroblasts. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1990**, 1052, 106-12	4.9	24

75	The transport of cationic amino acids in human airway cells: expression of system y+L activity and transepithelial delivery of NOS inhibitors. *FASEB Journal*, **2005**, 19, 810-2	0.9	23
74	SNAT2 silencing prevents the osmotic induction of transport system A and hinders cell recovery from hypertonic stress. *FEBS Letters*, **2005**, 579, 3376-80	3.8	22
73	Platelet gel in the treatment of cutaneous ulcers: the experience of the Immunohaematology and Transfusion Centre of Parma. *Blood Transfusion*, **2010**, 8, 237-47	3.6	22
72	Arginine transport in human erythroid cells: discrimination of CAT1 and 4F2hc/y+LAT2 roles. *Pflugers Archiv European Journal of Physiology*, **2009**, 458, 1163-73	4.6	21
71	Titanium dioxide nanoparticles enhance macrophage activation by LPS through a TLR4-dependent intracellular pathway. *Toxicology Research*, **2015**, 4, 385-398	2.6	20
70	Cerium Oxide Nanoparticles Rescue □Synuclein-Induced Toxicity in a Yeast Model of Parkinson□s Disease. *Nanomaterials*, **2020**, 10,	5.4	20
69	Treatment of chronic venous leg ulcers by platelet gel. *Dermatologic Therapy*, **2008**, 21 Suppl 1, S13-7	2.2	20
68	Rapamycin stimulates arginine influx through CAT2 transporters in human endothelial cells. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 1479-87	3.8	20
67	Lipopolysaccharide Adsorbed to the Bio-Corona of TiO Nanoparticles Powerfully Activates Selected Pro-inflammatory Transduction Pathways. *Frontiers in Immunology*, **2017**, 8, 866	8.4	19
66	Alveolar macrophages from normal subjects lack the NOS-related system y+ for arginine transport. *American Journal of Respiratory Cell and Molecular Biology*, **2007**, 37, 105-12	5.7	17
65	The stimulation of arginine transport by TNFalpha in human endothelial cells depends on NF-kappaB activation. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1664, 45-52	3.8	17
64	PKC-dependent stimulation of EAAT3 glutamate transporter does not require the integrity of actin cytoskeleton. *Neurochemistry International*, **2006**, 48, 341-9	4.4	16
63	CFTR expression in C127 cells is associated with enhanced cell shrinkage and ATP extrusion in Cl(-)-free medium. *Biochemical and Biophysical Research Communications*, **1996**, 227, 755-61	3.4	16
62	Regulatory volume decrease of cultured human fibroblasts involves changes in intracellular amino-acid pool. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1994**, 1220, 139-45	4.9	16
61	Involvement of protein kinase Cepsilon in the stimulation of anionic amino acid transport in cultured human fibroblasts. *Journal of Biological Chemistry*, **1996**, 271, 26124-30	5.4	15
60	Coordinated Regulation of the Neutral Amino Acid Transporter SNAT2 and the Protein Phosphatase Subunit GADD34 Promotes Adaptation to Increased Extracellular Osmolarity. *Journal of Biological Chemistry*, **2015**, 290, 17822-17837	5.4	14
59	Valproic acid induces the glutamate transporter excitatory amino acid transporter-3 in human oligodendroglioma cells. *Neuroscience*, **2012**, 227, 260-70	3.9	14
58	Regulation of arginine transport and metabolism by protein kinase Calpha in endothelial cells: stimulation of CAT2 transporters and arginase activity. *Journal of Molecular and Cellular Cardiology*, **2010**, 49, 260-70	5.8	14

57	Phorbol esters stimulate the transport of anionic amino acids in cultured human fibroblasts. *Biochemical and Biophysical Research Communications*, **1990**, 173, 1304-10	3.4	14
56	Titanium dental implants hydrophilicity promotes preferential serum fibronectin over albumin competitive adsorption modulating early cell response. *Materials Science and Engineering C*, **2020**, 117, 111307	8.3	14
55	Catechin and Procyanidin B Modulate the Expression of Tight Junction Proteins but Do Not Protect from Inflammation-Induced Changes in Permeability in Human Intestinal Cell Monolayers. *Nutrients*, **2019**, 11,	6.7	13
54	Differences in toxicity, mitochondrial function and miRNome in human cells exposed in vitro to Cd as CdS quantum dots or ionic Cd. *Journal of Hazardous Materials*, **2020**, 393, 122430	12.8	13
53	Comparative in Vitro Cytotoxicity of Realistic Doses of Benchmark Multi-Walled Carbon Nanotubes towards Macrophages and Airway Epithelial Cells. *Nanomaterials*, **2019**, 9,	5.4	13
52	Oligodendroglioma Cells Lack Glutamine Synthetase and Are Auxotrophic for Glutamine, but Do not Depend on Glutamine Anaplerosis for Growth. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
51	Employment of confocal microscopy for the dynamic visualization of domes in intact epithelial cell cultures. *Cells Tissues Organs*, **2002**, 170, 237-45	2.1	12
50	Membrane potential and amino acid transport in a mutant Chinese hamster ovary cell line. *Journal of Cellular Physiology*, **1991**, 146, 417-24	7	12
49	Post-translational control by carrier availability of amino acid transport in fetal human fibroblasts. *Biochemical and Biophysical Research Communications*, **1984**, 120, 172-8	3.4	12
48	Perturbation of Na+ and K+ gradients in human fibroblasts incubated in unsupplemented saline solutions. *Biochimica Et Biophysica Acta - Biomembranes*, **1986**, 860, 1-8	3.8	12
47	The ATRA-dependent overexpression of the glutamate transporter EAAC1 requires RARbeta induction. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 1861-8	3.8	11
46	□Glutamyltransferase enzyme activity of cancer cells modulates L-□glutamyl-p-nitroanilide (GPNA) cytotoxicity. *Scientific Reports*, **2019**, 9, 891	4.9	10
45	Comparative effects of metal oxide nanoparticles on human airway epithelial cells and macrophages. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	10
44	CFTR protein is involved in the efflux of neutral amino acids. *Biochemical and Biophysical Research Communications*, **1994**, 204, 653-8	3.4	10
43	The non-proteinogenic amino acids L-methionine sulfoximine and DL-phosphinothricin activate mTOR. *Amino Acids*, **2012**, 42, 2507-12	3.5	8
42	Ethanol increases the paracellular permeability of monolayers of CAPAN-1 pancreatic duct cells. *Journal of Molecular Histology*, **2004**, 35, 355-62	3.3	8
41	Secretin increases the paracellular permeability of CAPAN-1 pancreatic duct cells. *Cellular Physiology and Biochemistry*, **2000**, 10, 13-25	3.9	8
40	The transport of L-arginine in Chinese hamster ovary cells. *Biochemical and Biophysical Research Communications*, **1989**, 164, 1093-8	3.4	8

39	The preferential interaction of L-threonine with transport system ASC in cultured human fibroblasts. *Biochimica Et Biophysica Acta - Biomembranes*, **1991**, 1070, 305-12	3.8	8
38	Length-dependent toxicity of TiO nanofibers: mitigation via shortening. *Nanotoxicology*, **2020**, 14, 433-452	5.3	8
37	Down-regulation of HOXA4, HOXA7, HOXA10, HOXA11 and MEIS1 during monocyte-macrophage differentiation in THP-1 cells. *Molecular Medicine Reports*, **2009**, 2, 241-4	2.9	7
36	Suppression of anionic amino acid transport impairs the maintenance of intracellular glutamate in Ha-ras-expressing cells. *Biochemical and Biophysical Research Communications*, **1995**, 211, 878-84	3.4	7
35	The relationship between sodium-dependent transport of anionic amino acids and cell proliferation. *Biochimica Et Biophysica Acta - Biomembranes*, **1993**, 1151, 153-60	3.8	7
34	PACT-mediated PKR activation acts as a hyperosmotic stress intensity sensor weakening osmoadaptation and enhancing inflammation. *ELife*, **2020**, 9,	8.9	7
33	Myeloma Cells Deplete Bone Marrow Glutamine and Inhibit Osteoblast Differentiation Limiting Asparagine Availability. *Cancers*, **2020**, 12,	6.6	7
32	Radiochemical high-performance liquid chromatography detection of arginine metabolism in human endothelial cells. *Analytical Biochemistry*, **2012**, 424, 156-61	3.1	6
31	Modulation of transport systems for neutral and anionic amino acids in mesenchymal cells. *Biochemical Society Transactions*, **1996**, 24, 864-9	5.1	6
30	Amino acid and sugar transport in mouse 3T3 cells expressing activated ras and neu oncogenes. *Annals of the New York Academy of Sciences*, **1988**, 551, 374-7	6.5	6
29	Plasma Proteins at the Interface of Dental Implants Modulate Osteoblasts Focal Adhesions Expression and Cytoskeleton Organization. *Nanomaterials*, **2019**, 9,	5.4	5
28	The glutamate transporter excitatory amino acid carrier 1 associates with the actin-binding protein alpha-adducin. *Neuroscience*, **2010**, 169, 584-95	3.9	5
27	Endothelial cell injury induced by preservation solutions: a confocal microscopy study. *Annals of Thoracic Surgery*, **2002**, 73, 1606-14; discussion 1614-5	2.7	5
26	The regulation of sodium-dependent transport of anionic amino acids in cultured human fibroblasts. *FEBS Letters*, **1994**, 352, 109-12	3.8	5
25	Functional Consequences of Low Activity of Transport System A for Neutral Amino Acids in Human Bone Marrow Mesenchymal Stem Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
24	Chlorpromazine, clozapine and olanzapine inhibit anionic amino acid transport in cultured human fibroblasts. *Amino Acids*, **2006**, 31, 93-9	3.5	4
23	Data on miRNome changes in human cells exposed to nano- or ionic- forms of Cadmium. *Data in Brief*, **2020**, 30, 105636	1.2	3
22	Asparagine levels in the bone marrow of patients with acute lymphoblastic leukemia during asparaginase therapy. *Pediatric Blood and Cancer*, **2013**, 60, 1915	3	2

21	Serum-dependent changes of intracellular Na+ and K+ concentrations in cultured human fibroblasts. *Cell Biology International Reports*, **1986**, 10, 156-156		2
20	Ammonium Production and Glutamine-Addiction of Myeloma Cells: New Attractive Targets in Multiple Myeloma. *Blood*, **2014**, 124, 2067-2067	2.2	2
19	[F](2,4)-4-Fluoroglutamine as a New Positron Emission Tomography Tracer in Myeloma. *Frontiers in Oncology*, **2021**, 11, 760732	5.3	2
18	Pyrogenic and Precipitated Amorphous Silica Nanoparticles Differentially Affect Cell Responses to LPS in Human Macrophages. *Nanomaterials*, **2020**, 10,	5.4	2
17	Hepatoblastoma: glutamine depletion hinders cell viability in the embryonal subtype but high GLUL expression is associated with better overall survival. *Journal of Cancer Research and Clinical Oncology*, **2021**, 147, 3169-3181	4.9	2
16	A toxicological approach to hazard assessment of carbon nanotubes: implications for workersR health protection. *International Journal of Environment and Health*, **2009**, 3, 249	1.3	1
15	ALL blasts drive primary mesenchymal stromal cells to increase asparagine availability during asparaginase treatment. *Blood Advances*, **2021**, 5, 5164-5178	7.8	1
14	The Role of Amino Acids in the Crosstalk Between Mesenchymal Stromal Cells and Neoplastic Cells in the Hematopoietic Niche. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 714755	5.7	1
13	Multi-walled carbon nanotubes induce airway hyperresponsiveness in human bronchi by stimulating sensory C-fibers and increasing the release of neuronal acetylcholine. *Expert Review of Respiratory Medicine*, **2021**, 15, 1473-1481	3.8	1
12	Evaluation of potential engineered nanomaterials impacts on human health: from risk for workers to impact on consumers **2019**, 263-287		0
11	Glycine transport by cultured human fibroblasts. *Biochemical and Biophysical Research Communications*, **1988**, 152, 617-22	3.4	
10	How do students approach the study of the History of Medicine? Some considerations after the final exams at the first year and fourth year. *Acta Biomedica*, **2021**, 92, e2021167	3.2	
9	Development and Validation of [18f](2 S,4 R)-4-Fluoroglutamine in Multiple Myeloma Mouse Models. *Blood*, **2021**, 138, 2674-2674	2.2	
8	Effects of taurine and other amino acids on the phenotype of F508-CFTR cells. *FASEB Journal*, **2006**, 20, A1039	0.9	
7	Chronic exposure to rapamycin induces endothelial dysfunction in vitro. *FASEB Journal*, **2007**, 21, A750	0.9	
6	The expression of the glutamate transporter EAAC1 is stimulated by all-trans retinoic acid in C6 rat glioma cells. *FASEB Journal*, **2008**, 22, 1168.3	0.9	
5	Myeloma-Induced Alterations of Glutamine Metabolism Impair Bone Microenvironment Niche in Multiple Myeloma Patients. *Blood*, **2018**, 132, 4481-4481	2.2	
4	Glutamine Depletion By Addicted Myeloma Cells Inhibits Osteoblastic Differentiation of Bone Marrow Mesenchymal Stromal Cells Limiting Asparagine Availability: A Possible New Mechanism for Myeloma Bone Disease. *Blood*, **2019**, 134, 4339-4339	2.2	

3	[18f]-(2S,4R)-4-Fluoroglutamine As a New Positron Emission Tomography Tracer in Multiple Myeloma. *Blood*, **2019**, 134, 5542-5542	2.2
2	Paraptotic Cell Death Induced by the Thioxotriazole Copper Complex A0: A New Tool to Kill Apoptosis-Resistant Cancer Cells **2009**, 201-207	
1	Glutamine Synthetase plays a dual role in the dependence of human cancer cells from glutamine. *FASEB Journal*, **2012**, 26, 145.18	0.9