Eugenio Monti

List of Publications by Year
in descending order

83 papers	3,007 citations	201674 27 h-index	175258 52 g-index
83 all docs	83 docs citations	83 times ranked	3139 citing authors

#	Article	IF	Citations
1	A novel variant of VEGFR2 identified by a pan-cancer screening of recurrent somatic mutations in the catalytic domain of tyrosine kinase receptors enhances tumor growth and metastasis. Cancer Letters, 2021, 496, 84-92.	7.2	7
2	High-mobility group box-1 protein as a novel biomarker to diagnose healthcare-associated ventriculitis and meningitis: a pilot study. Minerva Anestesiologica, 2021, 87, 43-51.	1.0	3
3	Development of BCR-ABL1 Transgenic Zebrafish Model Reproducing Chronic Myeloid Leukemia (CML) Like-Disease and Providing a New Insight into CML Mechanisms. Cells, 2021, 10, 445.	4.1	4
4	Caveolin-1 promotes radioresistance in rhabdomyosarcoma through increased oxidative stress protection and DNA repair. Cancer Letters, 2021, 505, 1-12.	7.2	21
5	Expression of activated VEGFR2 by R1051Q mutation alters the energy metabolism of Sk-Mel-31 melanoma cells by increasing glutamine dependence. Cancer Letters, 2021, 507, 80-88.	7.2	8
6	Characterization of three sialidases from Danio rerio. Biochimie, 2021, 187, 57-66.	2.6	1
7	Insights into Cadmium-Induced Carcinogenesis through an In Vitro Study Using C3H10T1/2Cl8 Cells: The Multifaceted Role of Mitochondria. International Journal of Molecular Sciences, 2021, 22, 10837.	4.1	2
8	Agro-Industrial Wastes: A Substrate for Multi-Enzymes Production by Cryphonectria parasitica. Fermentation, 2021, 7, 279.	3.0	7
9	Role of NEU3 Overexpression in the Prediction of Efficacy of EGFR-Targeted Therapies in Colon Cancer Cell Lines. International Journal of Molecular Sciences, 2020, 21, 8805.	4.1	5
10	The Downregulation of c19orf12 Negatively Affects Neuronal and Musculature Development in Zebrafish Embryos. Frontiers in Cell and Developmental Biology, 2020, 8, 596069.	3.7	11
11	Animal models of well-differentiated/dedifferentiated liposarcoma: utility and limitations . OncoTargets and Therapy, 2019, Volume 12, 5257-5268.	2.0	10
12	C9orf72 Intermediate Alleles in Patients with Amyotrophic Lateral Sclerosis, Systemic Lupus Erythematosus, and Rheumatoid Arthritis. NeuroMolecular Medicine, 2019, 21, 150-159.	3.4	19
13	Zebrafish disease models in hematology: Highlights on biological and translational impact. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 620-633.	3.8	18
14	Overexpression of sialidase NEU3 increases the cellular radioresistance potential of U87MG glioblastoma cells. Biochemical and Biophysical Research Communications, 2019, 508, 31-36.	2.1	5
15	Deregulation of sialidases in human normal and tumor tissues. Cancer Biomarkers, 2018, 21, 591-601.	1.7	17
16	Sialic acid as a target for the development of novel antiangiogenic strategies. Future Medicinal Chemistry, 2018, 10, 2835-2854.	2.3	15
17	7-Hydroxymatairesinol improves body weight, fat and sugar metabolism in C57BJ/6 mice on a high-fat diet. British Journal of Nutrition, 2018, 120, 751-762.	2.3	9
18	Focus on the role of Caveolin and Cavin protein families in liposarcoma. Differentiation, 2017, 94, 21-26.	1.9	5

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19	Exosomes Secreted by HeLa Cells Shuttle on Their Surface the Plasma Membrane-Associated Sialidase NEU3. Biochemistry, 2017, 56, 6401-6408.	2.5	29
20	Genomic and biochemical characterization of sialic acid acetylesterase (siae) in zebrafish. Glycobiology, 2017, 27, 938-946.	2.5	5
21	Non-small cell lung cancer (NSCLC), EGFR downstream pathway activation and TKI targeted therapies sensitivity: Effect of the plasma membrane-associated NEU3. PLoS ONE, 2017, 12, e0187289.	2.5	20
22	Cavin-2 is a specific marker for detection of well-differentiated liposarcoma. Biochemical and Biophysical Research Communications, 2017, 493, 660-665.	2.1	5
23	Detecting Î²-Casein Variation in Bovine Milk. Molecules, 2016, 21, 141.	3.8	28
24	Down-regulation of coasy, the gene associated with NBIA-VI, reduces Bmp signaling, perturbs dorso-ventral patterning and alters neuronal development in zebrafish. Scientific Reports, 2016, 6, 37660.	3.3	42
25	Identification of p53-target genes in Danio rerio. Scientific Reports, 2016, 6, 32474.	3.3	10
26	Knock-down of pantothenate kinase 2 severely affects the development of the nervous and vascular system in zebrafish, providing new insights into PKAN disease. Neurobiology of Disease, 2016, 85, 35-48.	4.4	55
27	Caveolin-1, Caveolin-2 and Cavin-1 are strong predictors of adipogenic differentiation in human tumors and cell lines of liposarcoma. European Journal of Cell Biology, 2016, 95, 252-264.	3.6	19
28	Uncovering metabolism in rhabdomyosarcoma. Cell Cycle, 2016, 15, 184-195.	2.6	17
29	MURC/cavin-4 Is Co-Expressed with Caveolin-3 in Rhabdomyosarcoma Tumors and Its Silencing Prevents Myogenic Differentiation in the Human Embryonal RD Cell Line. PLoS ONE, 2015, 10, e0130287.	2.5	2
30	Human sialic acid acetyl esterase: Towards a better understanding of a puzzling enzyme. Glycobiology, 2015, 25, 992-1006.	2.5	17
31	Melatonin decreases cell proliferation, impairs myogenic differentiation and triggers apoptotic cell death in rhabdomyosarcoma cell lines. Oncology Reports, 2015, 34, 279-287.	2.6	19
32	NEU3 activity enhances EGFR activation without affecting EGFR expression and acts on its sialylation levels. Glycobiology, 2015, 25, 855-868.	2.5	48
33	Cavin-1 and Caveolin-1 are both required to support cell proliferation, migration and anchorage-independent cell growth in rhabdomyosarcoma. Laboratory Investigation, 2015, 95, 585-602.	3.7	37
34	Sialidase NEU3 Dynamically Associates to Different Membrane Domains Specifically Modifying Their Ganglioside Pattern and Triggering Akt Phosphorylation. PLoS ONE, 2014, 9, e99405.	2.5	20
35	Analysis of three Î¼1â€AP1 subunits during zebrafish development. Developmental Dynamics, 2014, 243, 299-314.	1.8	9
36	Molecular cloning and knockdown of galactocerebrosidase in zebrafish: New insights into the pathogenesis of Krabbe's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 665-675.	3.8	26

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37	Looking at Human Cytosolic Sialidase NEU2 Structural Features with an Interdisciplinary Approach. Biochemistry, 2014, 53, 5343-5355.	2.5	3
38	Phosphocaveolin-1 Enforces Tumor Growth and Chemoresistance in Rhabdomyosarcoma. PLoS ONE, 2014, 9, e84618.	2.5	17
39	In Silico Identification of New Putative Pathogenic Variants in the Neu1 Sialidase Gene Affecting Enzyme Function and Subcellular Localization. PLoS ONE, 2014, 9, e104229.	2.5	6
40	Muscular dystrophies share pathogenetic mechanisms with muscle sarcomas. Trends in Molecular Medicine, 2013, 19, 546-554.	6.7	22
41	Identification of lysosomal sialidase NEU1 and plasma membrane sialidase NEU3 in human erythrocytes. Journal of Cellular Biochemistry, 2013, 114, 204-211.	2.6	16
42	A proline-rich loop mediates specific functions of human sialidase NEU4 in SK-N-BE neuronal differentiation. Glycobiology, 2013, 23, 1499-1509.	2.5	8
43	Substrate-Immobilized HIV-1 Tat Drives VEGFR2/Î± _v Î² ₃ â€“Integrin Complex Formation and Polarization in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e25-34.	2.4	15
44	Structure and Function of Mammalian Sialidases. Topics in Current Chemistry, 2012, 366, 183-208.	4.0	51
45	Implications for the mammalian sialidases in the physiopathology of skeletal muscle. Skeletal Muscle, 2012, 2, 23.	4.2	29
46	Rhabdomyosarcomas: an overview on the experimental animal models. Journal of Cellular and Molecular Medicine, 2012, 16, 1377-1391.	3.6	27
47	New Insights on the Sialidase Protein Family Revealed by a Phylogenetic Analysis in Metazoa. PLoS ONE, 2012, 7, e44193.	2.5	48
48	A Fish-Specific Transposable Element Shapes the Repertoire of p53 Target Genes in Zebrafish. PLoS ONE, 2012, 7, e46642.	2.5	17
49	Molecular insight into substrate recognition by human cytosolic sialidase NEU2. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1123-1132.	2.6	14
50	MmNEU3 sialidase overâ€expression in C2C12 myoblasts delays differentiation and induces hypertrophic myotube formation. Journal of Cellular Biochemistry, 2012, 113, 2967-2978.	2.6	23
51	Caveolin 1 is a marker of poor differentiation in Rhabdomyosarcoma. European Journal of Cancer, 2011, 47, 761-772.	2.8	21
52	Point mutated caveolin-3 form (P104L) impairs myoblast differentiation via Akt and p38 signalling reduction, leading to an immature cell signature. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 468-479.	3.8	21
53	Cystatin C is released in association with exosomes: A new tool of neuronal communication which is unbalanced in Alzheimer's disease. Neurobiology of Aging, 2011, 32, 1435-1442.	3.1	90
54	Caveolins in rhabdomyosarcoma. Journal of Cellular and Molecular Medicine, 2011, 15, 2553-2568.	3.6	13

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55	Gallus gallus NEU3 sialidase as model to study protein evolution mechanism based on rapid evolving loops. BMC Biochemistry, 2011, 12, 45.	4.4	8
56	Human sialidase NEU4 long and short are extrinsic proteins bound to outer mitochondrial membrane and the endoplasmic reticulum, respectively. Glycobiology, 2010, 20, 148-157.	2.5	55
57	Sialidases in Vertebrates. Advances in Carbohydrate Chemistry and Biochemistry, 2010, 64, 403-479.	0.9	152
58	Complexity in Influenza Virus Targeted Drug Design: Interaction with Human Sialidases. Journal of Medicinal Chemistry, 2010, 53, 2998-3002.	6.4	62
59	Over-expression of mammalian sialidase NEU3 reduces Newcastle disease virus entry and propagation in COS7 cells. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 504-512.	2.4	9
60	NEU3 Sialidase Strictly Modulates GM3 Levels in Skeletal Myoblasts C2C12 Thus Favoring Their Differentiation and Protecting Them from Apoptosis. Journal of Biological Chemistry, 2008, 283, 36265-36271.	3.4	44
61	Expression of Sialidase Neu2 in Leukemic K562 Cells Induces Apoptosis by Impairing Bcr-Abl/Src Kinases Signaling. Journal of Biological Chemistry, 2007, 282, 14364-14372.	3.4	47
62	Sialidase NEU3 is a peripheral membrane protein localized on the cell surface and in endosomal structures. Biochemical Journal, 2007, 408, 211-219.	3.7	81
63	Molecular cloning and biochemical characterization of sialidases from zebrafish (<i>Danio) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.7	28
64	Gangliosides play an important role in the organization of CD82-enriched microdomains. Biochemical Journal, 2006, 400, 315-325.	3.7	81
65	Reversine-treated fibroblasts acquire myogenic competence in vitro and in regenerating skeletal muscle. Cell Death and Differentiation, 2006, 13, 2042-2051.	11.2	89
66	Modification of sialidase levels and sialoglycoconjugate pattern during erythroid and erytroleukemic cell differentiation. Glycoconjugate Journal, 2006, 24, 67-79.	2.7	17
67	Crystal Structure of the Human Cytosolic Sialidase Neu2. Journal of Biological Chemistry, 2005, 280, 469-475.	3.4	148
68	Cellular expression and alternative splicing of SLC25A23, a member of the mitochondrial Ca2+-dependent solute carrier gene family. Gene, 2005, 345, 173-182.	2.2	27
69	Properties of Recombinant Human Cytosolic Sialidase HsNEU2. Journal of Biological Chemistry, 2004, 279, 3169-3179.	3.4	72
70	The Plasma Membrane-associated Sialidase MmNEU3 Modifies the Ganglioside Pattern of Adjacent Cells Supporting Its Involvement in Cell-to-Cell Interactions. Journal of Biological Chemistry, 2004, 279, 16989-16995.	3.4	130
71	Overexpression of wild-type and mutant mucolipin proteins in mammalian cells: effects on the late endocytic compartment organization. FEBS Letters, 2004, 567, 219-224.	2.8	73
72	Molecular cloning and characterization of NEU4, the fourth member of the human sialidase gene family. Genomics, 2004, 83, 445-453.	2.9	103

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73	Recent development in mammalian sialidase molecular biology. Neurochemical Research, 2002, 27, 649-663.	3.3	142
74	Identification and expression of NEU3, a novel human sialidase associated to the plasma membrane. Biochemical Journal, 2000, 349, 343.	3.7	95
75	Identification and expression of NEU3, a novel human sialidase associated to the plasma membrane. Biochemical Journal, 2000, 349, 343-351.	3.7	141
76	Cloning of the Gene Encoding a Novel Integral Membrane Protein, Mucolipidinâ€"and Identification of the Two Major Founder Mutations Causing Mucolipidosis Type IV. American Journal of Human Genetics, 2000, 67, 1110-1120.	6.2	230
77	Cloning and Characterization of NEU2, a Human Gene Homologous to Rodent Soluble Sialidases. Genomics, 1999, 57, 137-143.	2.9	95
78	Cytosolic sialidase from pig brain: a â€˜protein complexâ€™ containing catalytic and protective units. BBA - Proteins and Proteomics, 1994, 1208, 229-237.	2.1	5
79	High-titre antibodies to a foreign epitope elicited by affinity-purified hybrid LamB proteins. Vaccine, 1993, 11, 1093-1096.	3.8	1
80	Inhibition of the Biological Activity of Human Interferon-Î³ by Antipeptide Antibodies. Journal of Interferon Research, 1992, 12, 49-54.	1.2	11
81	Uptake and metabolism of a fluorescent sulfatide analogue in cultured skin fibroblasts. Lipids and Lipid Metabolism, 1992, 1124, 80-87.	2.6	23
82	Occurrence in Brain Lysosomes of a Sialidase Active on Ganglioside. Journal of Neurochemistry, 1989, 53, 672-680.	3.9	19
83	Identification of a phosphorylated form of phosphoenolpyruvate carboxykinase from the yeast Saccharomyces cerevisiae. Biochimica Et Biophysica Acta - Molecular Cell Research, 1987, 930, 220-229.	4.1	3