

# Gustavo Egea

## List of Publications by Year in descending order

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109  
papers

7,137  
citations

94433

37  
h-index

58581

82  
g-index

113  
all docs

113  
docs citations

113  
times ranked

14367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Delivery of gold nanoparticles to the brain by conjugation with a peptide that recognizes the transferrin receptor. <i>Biomaterials</i> , 2012, 33, 7194-7205.	11.4	220
3	Actin dynamics at the Golgi complex in mammalian cells. <i>Current Opinion in Cell Biology</i> , 2006, 18, 168-178.	5.4	158
4	Mutant Huntingtin Impairs Post-Golgi Trafficking to Lysosomes by Delocalizing Optineurin/Rab8 Complex from the Golgi Apparatus. <i>Molecular Biology of the Cell</i> , 2009, 20, 1478-1492.	2.1	145
5	Regulation of Protein Transport from the Golgi Complex to the Endoplasmic Reticulum by CDC42 and N-WASP. <i>Molecular Biology of the Cell</i> , 2002, 13, 866-879.	2.1	144
6	Actin microfilaments are essential for the cytological positioning and morphology of the Golgi complex. <i>European Journal of Cell Biology</i> , 1998, 76, 9-17.	3.6	125
7	Vascular Smooth Muscle Cell Phenotypic Changes in Patients With Marfan Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 960-972.	2.4	116
8	Overactivation of the TGF- $\beta$ 2 pathway confers a mesenchymal-like phenotype and CXCR4-dependent migratory properties to liver tumor cells. <i>Hepatology</i> , 2013, 58, 2032-2044.	7.3	113
9	Applying the Retro-Enantio Approach To Obtain a Peptide Capable of Overcoming the Blood-Brain Barrier. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3967-3972.	13.8	96
10	Actin Microfilaments Facilitate the Retrograde Transport from the Golgi Complex to the Endoplasmic Reticulum in Mammalian Cells. <i>Traffic</i> , 2001, 2, 717-726.	2.7	95
11	Changing Patterns of Transcriptional and Post-transcriptional Control of $\beta$ -F1-ATPase Gene Expression during Mitochondrial Biogenesis in Liver. <i>Journal of Biological Chemistry</i> , 1995, 270, 10342-10350.	3.4	94
12	Diacylglycerol Is Required for the Formation of COPI Vesicles in the Golgi-to-ER Transport Pathway. <i>Molecular Biology of the Cell</i> , 2007, 18, 3250-3263.	2.1	92
13	Activation of H-Ras in the Endoplasmic Reticulum by the RasGRF Family Guanine Nucleotide Exchange Factors. <i>Molecular and Cellular Biology</i> , 2004, 24, 1516-1530.	2.3	87
14	Myosin Motors and Not Actin Comets Are Mediators of the Actin-based Golgi-to-Endoplasmic Reticulum Protein Transport. <i>Molecular Biology of the Cell</i> , 2003, 14, 445-459.	2.1	84
15	Association of Cdc42/N-WASP/Arp2/3 Signaling Pathway with Golgi Membranes. <i>Traffic</i> , 2004, 5, 838-846.	2.7	79
16	Mutant huntingtin Impairs the Post-Golgi Trafficking of Brain-Derived Neurotrophic Factor But Not Its Val66Met Polymorphism. <i>Journal of Neuroscience</i> , 2006, 26, 12748-12757.	3.6	71
17	Glycosyl phosphatidylinositol membrane anchoring of melanotransferrin (p97): apical compartmentalization in intestinal epithelial cells. <i>Journal of Cell Science</i> , 1993, 104, 1155-1162.	2.0	69
18	The Golgi-associated COPI-coated buds and vesicles contain beta /gamma -actin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 1560-1565.	7.1	68

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19	Dynamics of an F-actin aggresome generated by the actin-stabilizing toxin jasplakinolide. <i>Journal of Cell Science</i> , 2008, 121, 1415-1425.	2.0	68
20	Direct Cytoskeleton Forces Cause Membrane Softening in Red Blood Cells. <i>Biophysical Journal</i> , 2015, 108, 2794-2806.	0.5	67
21	Detection of the MUC2 apomucin tandem repeat with a mouse monoclonal antibody. <i>Gastroenterology</i> , 1993, 104, 93-102.	1.3	63
22	Actin filaments are involved in the maintenance of Golgi cisternae morphology and intra-Golgi pH. <i>Cytoskeleton</i> , 2006, 63, 778-791.	4.4	60
23	Actin acting at the Golgi. <i>Histochemistry and Cell Biology</i> , 2013, 140, 347-360.	1.7	57
24	Redox stress in Marfan syndrome: Dissecting the role of the NADPH oxidase NOX4 in aortic aneurysm. <i>Free Radical Biology and Medicine</i> , 2018, 118, 44-58.	2.9	57
25	The homeostatic role of hydrogen peroxide, superoxide anion and nitric oxide in the vasculature. <i>Free Radical Biology and Medicine</i> , 2021, 162, 615-635.	2.9	57
26	cis-Golgi resident proteins and O-glycans are abnormally compartmentalized in the RER of colon cancer cells. <i>Journal of Cell Science</i> , 1993, 105, 819-830.	2.0	57
27	Vacuole Membrane Protein 1 Is an Endoplasmic Reticulum Protein Required for Organelle Biogenesis, Protein Secretion, and Development. <i>Molecular Biology of the Cell</i> , 2008, 19, 3442-3453.	2.1	54
28	mRNA encoding the $\beta$ -subunit of the mitochondrial F1-ATPase complex is a localized mRNA in rat hepatocytes. <i>Biochemical Journal</i> , 1997, 322, 557-565.	3.7	51
29	Morphological changes in the Golgi complex correlate with actin cytoskeleton rearrangements. <i>Cytoskeleton</i> , 1999, 43, 334-348.	4.4	50
30	Ceramide transport from endoplasmic reticulum to Golgi apparatus is not vesicle-mediated. <i>Biochemical Journal</i> , 1998, 333, 779-786.	3.7	48
31	PDMP Blocks Brefeldin A-induced Retrograde Membrane Transport from Golgi to ER: Evidence for Involvement of Calcium Homeostasis and Dissociation from Sphingolipid Metabolism. <i>Journal of Cell Biology</i> , 1998, 142, 25-38.	5.2	45
32	Variable actin dynamics requirement for the exit of different cargo from the trans-Golgi network. <i>FEBS Letters</i> , 2007, 581, 3875-3881.	2.8	43
33	gp74 a membrane glycoprotein of the cis-Golgi network that cycles through the endoplasmic reticulum and intermediate compartment. <i>Journal of Cell Biology</i> , 1994, 124, 649-665.	5.2	42
34	Protective effects of lysophosphatidic acid (LPA) on chronic ethanol-induced injuries to the cytoskeleton and on glucose uptake in rat astrocytes. <i>Journal of Neurochemistry</i> , 2003, 87, 220-229.	3.9	41
35	Silver Sub-nanoclusters Electrocatalyze Ethanol Oxidation and Provide Protection against Ethanol Toxicity in Cultured Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 6947-6954.	13.7	41
36	Structure and Dynamics of the Golgi Complex at 15 °C: Low Temperature Induces the Formation of Golgi-Derived Tubules. <i>Traffic</i> , 2005, 6, 32-44.	2.7	40

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37	Activating Transcription Factor 6 Limits Intracellular Accumulation of Mutant $\alpha_1$ -Antitrypsin Z and Mitochondrial Damage in Hepatoma Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 41563-41577.	3.4	40
38	Ethanol perturbs the secretory pathway in astrocytes. <i>Neurobiology of Disease</i> , 2005, 20, 773-784.	4.4	39
39	Cardiovascular Benefits of Moderate Exercise Training in Marfan Syndrome: Insights From an Animal Model. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	39
40	Caveolin-1 is required for TGF- $\beta$ 2-induced transactivation of the EGF receptor pathway in hepatocytes through the activation of the metalloprotease TACE/ADAM17. <i>Cell Death and Disease</i> , 2014, 5, e1326-e1326.	6.3	38
41	Ethanol impairs monosaccharide uptake and glycosylation in cultured rat astrocytes. <i>Journal of Neurochemistry</i> , 2002, 83, 601-612.	3.9	35
42	Phospholipid Synthesis Participates in the Regulation of Diacylglycerol Required for Membrane Trafficking at the Golgi Complex. <i>Journal of Biological Chemistry</i> , 2011, 286, 28632-28643.	3.4	34
43	Mutations in <i>TRAPPC11</i> are associated with a congenital disorder of glycosylation. <i>Human Mutation</i> , 2017, 38, 148-151.	2.5	34
44	Intracellular Location of SNAP-25 in Human Neutrophils. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 592-597.	2.1	33
45	Lipid phosphate phosphatase 3 participates in transport carrier formation and protein trafficking in the early secretory pathway. <i>Journal of Cell Science</i> , 2013, 126, 2641-55.	2.0	32
46	Subcellular structure containing mRNA for $\beta$ 2 subunit of mitochondrial H <sup>+</sup> -ATP synthase in rat hepatocytes is translationally active. <i>Biochemical Journal</i> , 1997, 324, 635-643.	3.7	31
47	Elevated expression levels of lysyl oxidases protect against aortic aneurysm progression in Marfan syndrome. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 48-57.	1.9	30
48	ATP release from pure cholinergic synaptosomes is not blocked by tetanus toxin. <i>FEBS Letters</i> , 1987, 213, 337-340.	2.8	29
49	Light and electron microscopic detection of (3 Gal $\beta$ 1,4 GlcNAc $\beta$ 1) sequences in asparagine-linked oligosaccharides with the <i>Datura stramonium</i> lectin. <i>Histochemistry</i> , 1989, 92, 515-522.	1.9	28
50	N-Ras induces alterations in Golgi complex architecture and in constitutive protein transport. <i>Journal of Cell Science</i> , 1999, 112, 477-489.	2.0	28
51	Association of the regulatory beta-adrenergic receptor kinase with rat liver microsomal membranes. <i>Journal of Biological Chemistry</i> , 1994, 269, 1348-55.	3.4	27
52	Botulinum toxin type A blocks the morphological changes induced by chemical stimulation on the presynaptic membrane of <i>Torpedo</i> synaptosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 372-376.	7.1	24
53	Differences in the Thoracic Aorta by Region and Sex in a Murine Model of Marfan Syndrome. <i>Frontiers in Physiology</i> , 2017, 8, 933.	2.8	24
54	High-Resolution Morphological Approach to Analyse Elastic Laminae Injuries of the Ascending Aorta in a Murine Model of Marfan Syndrome. <i>Scientific Reports</i> , 2017, 7, 1505.	3.3	23

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55	cis-Golgi resident proteins and O-glycans are abnormally compartmentalized in the RER of colon cancer cells. <i>Journal of Cell Science</i> , 1993, 105 ( Pt 3), 819-30.	2.0	23
56	Lysophosphatidic acid rescues RhoA activation and phosphoinositides levels in astrocytes exposed to ethanol. <i>Journal of Neurochemistry</i> , 2007, 102, 1044-1052.	3.9	22
57	Structural changes at pure cholinergic synaptosomes during the transmitter release induced by A-23187 in <i>Torpedo marmorata</i> . <i>Cell and Tissue Research</i> , 1987, 248, 207-214.	2.9	21
58	PRENATAL ETHANOL EXPOSURE ALTERS THE CYTOSKELETON AND INDUCES GLYCOPROTEIN MICROHETEROGENEITY IN RAT NEWBORN HEPATOCYTES. <i>Alcohol and Alcoholism</i> , 2004, 39, 203-212.	1.6	21
59	Cytoskeleton and Golgi-apparatus interactions: a two-way road of function and structure. <i>Cell Health and Cytoskeleton</i> , 0, , 37.	0.7	21
60	Caveolin-1 dependent activation of the metalloprotease TACE/ADAM17 by TGF- $\beta$ 2 in hepatocytes requires activation of Src and the NADPH oxidase NOX1. <i>FEBS Journal</i> , 2016, 283, 1300-1310.	4.7	21
61	Reactive Oxygen Species and Oxidative Stress in the Pathogenesis and Progression of Genetic Diseases of the Connective Tissue. <i>Antioxidants</i> , 2020, 9, 1013.	5.1	21
62	Early Impairment of Lung Mechanics in a Murine Model of Marfan Syndrome. <i>PLoS ONE</i> , 2016, 11, e0152124.	2.5	21
63	Endocytosis of NBD-Sphingolipids in Neurons: Exclusion from Degradative Compartments and Transport to the Golgi Complex. <i>Traffic</i> , 2001, 2, 395-405.	2.7	19
64	Fluorescent analogues of plasma membrane sphingolipids are sorted to different intracellular compartments in astrocytes. <i>FEBS Letters</i> , 2004, 563, 59-65.	2.8	19
65	The AE2 anion exchanger is necessary for the structural integrity of the Golgi apparatus in mammalian cells. <i>FEBS Letters</i> , 2004, 564, 97-103.	2.8	19
66	$\beta$ III Spectrin Regulates the Structural Integrity and the Secretory Protein Transport of the Golgi Complex. <i>Journal of Biological Chemistry</i> , 2013, 288, 2157-2166.	3.4	19
67	Mechanisms regulating cell membrane localization of the chemokine receptor CXCR4 in human hepatocarcinoma cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1205-1218.	4.1	18
68	A FBN1 3'UTR mutation variant is associated with endoplasmic reticulum stress in aortic aneurysm in Marfan syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 107-114.	3.8	18
69	Human colon adenocarcinomas express a MUC1-associated novel carbohydrate epitope on core mucin glycans defined by a monoclonal antibody (A10) raised against murine Ehrlich tumor cells. <i>Cancer Research</i> , 1999, 59, 1061-70.	0.9	18
70	Novel Molecular Targets for the Prevention of Fetal Alcohol Syndrome. <i>Recent Patents on CNS Drug Discovery</i> , 2007, 2, 23-35.	0.9	17
71	MicroCT imaging reveals differential 3D micro-scale remodelling of the murine aorta in ageing and Marfan syndrome. <i>Theranostics</i> , 2018, 8, 6038-6052.	10.0	17
72	Membrane trafficking at the ER/Golgi interface: Functional implications of RhoA and Rac1. <i>European Journal of Cell Biology</i> , 2005, 84, 699-707.	3.6	16

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73	Altered TGF- $\beta$ 2 endocytic trafficking contributes to the increased signaling in Marfan syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 554-562.	3.8	16
74	Chronic ethanol exposure induces alterations in the nucleocytoplasmic transport in growing astrocytes. <i>Journal of Neurochemistry</i> , 2008, 106, 1914-1928.	3.9	15
75	<scp>PLC $\beta$ 1</scp> Participates in Protein Transport and Diacylglycerol Production Triggered by cargo Arrival at the Golgi. <i>Traffic</i> , 2015, 16, 250-266.	2.7	15
76	NADPH oxidase 4 attenuates cerebral artery changes during the progression of Marfan syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1081-H1090.	3.2	13
77	Glycosyl phosphatidylinositol membrane anchoring of melanotransferrin (p97): apical compartmentalization in intestinal epithelial cells. <i>Journal of Cell Science</i> , 1993, 104 ( Pt 4), 1155-62.	2.0	13
78	Botulinum neurotoxin inhibits depolarization-stimulated protein phosphorylation in pure cholinergic synaptosomes. <i>FEBS Letters</i> , 1987, 219, 219-223.	2.8	12
79	Mucin production by colon cancer cells cultured in serum-free medium. <i>International Journal of Cancer</i> , 1991, 49, 787-795.	5.1	12
80	Anti-TGF $\beta$ 2 (Transforming Growth Factor $\beta$ 2) Therapy With Betaglycan-Derived P144 Peptide Gene Delivery Prevents the Formation of Aortic Aneurysm in a Mouse Model of Marfan Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, e440-e452.	2.4	12
81	Binding of botulinum neurotoxin to pure cholinergic nerve terminals isolated from the electric organ of Torpedo. <i>Journal of Neural Transmission</i> , 1992, 90, 87-102.	2.8	11
82	Clearance of a Hirano body-like F-actin aggresome generated by jasplakinolide. <i>Autophagy</i> , 2008, 4, 717-720.	9.1	11
83	Ethanol increases p190RhoGAP activity, leading to actin cytoskeleton rearrangements. <i>Journal of Neurochemistry</i> , 2011, 119, 1306-1316.	3.9	11
84	Cyclophilin A/EMMPRIN Axis Is Involved in Pro-Fibrotic Processes Associated with Thoracic Aortic Aneurysm of Marfan Syndrome Patients. <i>Cells</i> , 2020, 9, 154.	4.1	11
85	Nuclear location of phosphoglycerate mutase BB isozyme in rat tissues. <i>Histochemistry</i> , 1992, 97, 269-275.	1.9	10
86	Tetanus toxin blocks potassium-induced transmitter release and rearrangement of intramembrane particles at pure cholinergic synaptosomes. <i>Toxicon</i> , 1990, 28, 311-318.	1.6	9
87	High resolution labeling of cholinergic nerve terminals using a specific fully active biotinylated botulinum neurotoxin type A. <i>Journal of Neuroscience Research</i> , 1993, 36, 635-645.	2.9	9
88	Calcium channel antagonist omega-conotoxin binds to intramembrane particles of isolated nerve terminals. <i>Neuroscience</i> , 1993, 54, 745-752.	2.3	9
89	Artificially-induced organelles are optimal targets for optical trapping experiments in living cells. <i>Biomedical Optics Express</i> , 2014, 5, 1993.	2.9	9
90	Lysosomal $\beta$ -glucosidase: cell-specific processing and altered maturation in HT-29 colon cancer cells. <i>Biochemical Journal</i> , 1996, 314, 33-40.	3.7	8

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91	PDMP blocks the BFA-induced ADP-ribosylation of BARS-50 in isolated Golgi membranes. FEBS Letters, 1999, 459, 310-312.	2.8	8
92	Changes in the internal organization of the cell by microstructured substrates. Soft Matter, 2010, 6, 582-590.	2.7	8
93	Actin Filaments Are Involved in the Coupling of V0-V1 Domains of Vacuolar H <sup>+</sup> -ATPase at the Golgi Complex. Journal of Biological Chemistry, 2016, 291, 7286-7299.	3.4	8
94	Location of phosphoglycerate mutase in rat skeletal muscle. An immunocytochemical and biochemical study. European Journal of Cell Biology, 1990, 51, 151-6.	3.6	8
95	Increased upper airway collapsibility in a mouse model of Marfan syndrome. Respiratory Physiology and Neurobiology, 2015, 207, 58-60.	1.6	7
96	N-Ras induces alterations in Golgi complex architecture and in constitutive protein transport. Journal of Cell Science, 1999, 112 ( Pt 4), 477-89.	2.0	7
97	Carbohydrate patterns of the pure cholinergic synapse of Torpedo electric organ: a cytochemical and immunocytochemical electron microscopic approach.. Journal of Histochemistry and Cytochemistry, 1992, 40, 513-521.	2.5	5
98	Morphological and biochemical analysis of the secretory pathway in melanoma cells with distinct metastatic potential. FEBS Letters, 1999, 451, 315-320.	2.8	5
99	± galnac is essential for recognition of EXO-1 epithelial antigen by mouse monoclonal antibody Pa-G-14. International Journal of Cancer, 1993, 55, 857-864.	5.1	4
100	Golgi Apparatus: Finally Mechanics Comes to Play in the Secretory Pathway. Current Biology, 2014, 24, R741-R743.	3.9	4
101	Possible roles of amyloids in malaria pathophysiology. Future Science OA, 2015, 1, FSO43.	1.9	4
102	The role of the cytoskeleton in the structure and function of the Golgi apparatus. , 2008, , 270-300.		4
103	Increase in reactive cholesterol in the presynaptic membrane of depolarized Torpedo synaptosomes: Blockade by botulinum toxin type a. Neuroscience, 1989, 31, 521-527.	2.3	2
104	Ultrastructural Changes Induced by 12-O-Tetradecanoylphorbol 13-Acetate in Pure Cholinergic Synaptosomes of Torpedo Electric Organ. Journal of Neurochemistry, 1991, 57, 1593-1598.	3.9	2
105	Arachnoid membrane as a source of sphingosine-1-phosphate that regulates mouse middle cerebral artery tone. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 162-174.	4.3	2
106	Lectin Cytochemistry Using Colloidal Gold Methodology. , 1993, , 215-233.		2
107	High-speed tracking of intracellular structures: understanding the transport mechanisms in living plant cells. , 2011, , .		0
108	P4552EMMPRIN is involved in thoracic aortic aneurysm of Marfan syndrome patients. European Heart Journal, 2018, 39, .	2.2	0

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109	The action of botulinum toxin on cholinergic nerve terminals isolated from the electric organ of <i>Torpedo marmorata</i> . Detection of a putative toxin receptor. <i>Journal De Physiologie</i> , 1990, 84, 174-9.	0.2	0