

Roberto Adachi

List of Publications by Year in descending order

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51
papers

3,678
citations

218592

26
h-index

182361

51
g-index

56
all docs

56
docs citations

56
times ranked

5415
citing authors

#	ARTICLE	IF	CITATIONS
1	Muc5b is required for airway defence. <i>Nature</i> , 2014, 505, 412-416.	13.7	617
2	A dual-Ca ²⁺ -sensor model for neurotransmitter release in a central synapse. <i>Nature</i> , 2007, 450, 676-682.	13.7	321
3	A new short-term mouse model of chronic obstructive pulmonary disease identifies a role for mast cell tryptase in pathogenesis. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 752-762.e7.	1.5	210
4	Ca ²⁺ and calmodulin initiate all forms of endocytosis during depolarization at a nerve terminal. <i>Nature Neuroscience</i> , 2009, 12, 1003-1010.	7.1	204
5	Synaptotagmin-2 Is Essential for Survival and Contributes to Ca ²⁺ Triggering of Neurotransmitter Release in Central and Neuromuscular Synapses. <i>Journal of Neuroscience</i> , 2006, 26, 13493-13504.	1.7	193
6	The Mast Cell-restricted Tryptase mMCP-6 Has a Critical Immunoprotective Role in Bacterial Infections. <i>Journal of Biological Chemistry</i> , 2007, 282, 20809-20815.	1.6	157
7	Central Role of Muc5ac Expression in Mucous Metaplasia and Its Regulation by Conserved 5' Elements. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 273-290.	1.4	155
8	Mast Cells Contribute to Autoimmune Inflammatory Arthritis via Their Tryptase/Heparin Complexes. <i>Journal of Immunology</i> , 2009, 182, 647-656.	0.4	153
9	Protease-proteoglycan complexes of mouse and human mast cells and importance of their tryptase-heparin complexes in inflammation and innate immunity. <i>Immunological Reviews</i> , 2007, 217, 155-167.	2.8	126
10	Compound vesicle fusion increases quantal size and potentiates synaptic transmission. <i>Nature</i> , 2009, 459, 93-97.	13.7	119
11	Synaptotagmin II Negatively Regulates Ca ²⁺ -triggered Exocytosis of Lysosomes in Mast Cells. <i>Journal of Experimental Medicine</i> , 1999, 189, 1649-1658.	4.2	105
12	Essential role for mast cell tryptase in acute experimental colitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 290-295.	3.3	105
13	Stimulation of Lung Innate Immunity Protects against Lethal Pneumococcal Pneumonia in Mice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 1322-1330.	2.5	103
14	Mast Cell-restricted Tryptases: Structure and Function in Inflammation and Pathogen Defense. <i>Journal of Biological Chemistry</i> , 2007, 282, 20785-20789.	1.6	88
15	Mast Cell Tryptase Deficiency Attenuates Mouse Abdominal Aortic Aneurysm Formation. <i>Circulation Research</i> , 2011, 108, 1316-1327.	2.0	70
16	The mouse mast cell-restricted tetramer-forming tryptases mouse mast cell protease 6 and mouse mast cell protease 7 are critical mediators in inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2008, 58, 2338-2346.	6.7	68
17	Inhaled corticosteroids stabilize constrictive bronchiolitis after hematopoietic stem cell transplantation. <i>Bone Marrow Transplantation</i> , 2008, 41, 63-67.	1.3	63
18	The Inflammatory Response after an Epidermal Burn Depends on the Activities of Mouse Mast Cell Proteases 4 and 5. <i>Journal of Immunology</i> , 2010, 185, 7681-7690.	0.4	62

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19	Signal Transducer and Activator of Transcription 3 (STAT3) Regulates Collagen-Induced Platelet Aggregation Independently of Its Transcription Factor Activity. <i>Circulation</i> , 2013, 127, 476-485.	1.6	61
20	Synaptotagmin 2 Couples Mucin Granule Exocytosis to Ca ²⁺ Signaling from Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2009, 284, 9781-9787.	1.6	59
21	Cholinergic efferent synaptic transmission regulates the maturation of auditory hair cell ribbon synapses. <i>Open Biology</i> , 2013, 3, 130163.	1.5	56
22	Rab3D, a Small GTPase, Is Localized on Mast Cell Secretory Granules and Translocates to the Plasma Membrane upon Exocytosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1999, 20, 79-89.	1.4	54
23	Synaptotagmin-2 Controls Regulated Exocytosis but Not Other Secretory Responses of Mast Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 19445-19451.	1.6	51
24	Mast Cell Restricted Mouse and Human Tryptase-Heparin Complexes Hinder Thrombin-induced Coagulation of Plasma and the Generation of Fibrin by Proteolytically Destroying Fibrinogen. <i>Journal of Biological Chemistry</i> , 2012, 287, 7834-7844.	1.6	46
25	Munc18b is an essential gene in mice whose expression is limiting for secretion by airway epithelial and mast cells. <i>Biochemical Journal</i> , 2012, 446, 383-394.	1.7	36
26	Mast Cell-Restricted, Tetramer-Forming Tryptases Induce Aggrecanlysis in Articular Cartilage by Activating Matrix Metalloproteinase-3 and -13 Zymogens. <i>Journal of Immunology</i> , 2013, 191, 1404-1412.	0.4	32
27	Syntaxin 3, but not syntaxin 4, is required for mast cell-regulated exocytosis, where it plays a primary role mediating compound exocytosis. <i>Journal of Biological Chemistry</i> , 2019, 294, 3012-3023.	1.6	28
28	Calmodulin Binding to the C-Terminus of the Small-Conductance Ca ²⁺ -Activated K ⁺ Channel hSK1 Is Affected by Alternative Splicing. <i>Biochemistry</i> , 2001, 40, 3189-3195.	1.2	26
29	Urokinase-type plasminogen activator is a preferred substrate of the human epithelium serine protease tryptase /PRSS22. <i>Blood</i> , 2005, 105, 3893-3901.	0.6	25
30	Diagnosis of invasive aspergillus tracheobronchitis facilitated by endobronchial ultrasound-guided transbronchial needle aspiration: a case report. <i>Journal of Medical Case Reports</i> , 2009, 3, 9290.	0.4	24
31	Munc13 proteins control regulated exocytosis in mast cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 345-358.	1.6	24
32	Ras Guanine Nucleotide-releasing Protein-4 (RasGRP4) Involvement in Experimental Arthritis and Colitis. <i>Journal of Biological Chemistry</i> , 2012, 287, 20047-20055.	1.6	21
33	Munc18-2, but not Munc18-1 or Munc18-3, controls compound and single-vesicle-regulated exocytosis in mast cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 7148-7159.	1.6	20
34	Bronchoscopic Laser Interstitial Thermal Therapy. <i>Journal of Bronchology and Interventional Pulmonology</i> , 2018, 25, 322-329.	0.8	18
35	Platelet Munc13-4 regulates hemostasis, thrombosis and airway inflammation. <i>Haematologica</i> , 2018, 103, 1235-1244.	1.7	17
36	Different Munc18 proteins mediate baseline and stimulated airway mucin secretion. <i>JCI Insight</i> , 2019, 4, .	2.3	15

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37	Expression and transcriptional regulation of Munc18 isoforms in mast cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2005, 1728, 77-83.	2.4	14
38	The Diacylglycerol-dependent Translocation of Ras Guanine Nucleotide-releasing Protein 4 inside a Human Mast Cell Line Results in Substantial Phenotypic Changes, Including Expression of Interleukin 13 Receptor $\beta 2$. <i>Journal of Biological Chemistry</i> , 2008, 283, 1610-1621.	1.6	14
39	Atrial natriuretic peptide modulates alveolar type 2 cell adenylyl and guanylyl cyclases and inhibits surfactant secretion. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1403, 115-125.	1.9	13
40	Pathogenic STX3 variants affecting the retinal and intestinal transcripts cause an early-onset severe retinal dystrophy in microvillus inclusion disease subjects. <i>Human Genetics</i> , 2021, 140, 1143-1156.	1.8	13
41	Syntaxin-3 is dispensable for basal neurotransmission and synaptic plasticity in postsynaptic hippocampal CA1 neurons. <i>Scientific Reports</i> , 2020, 10, 709.	1.6	11
42	Breast and Lung Effusion Survival Score Models. <i>Chest</i> , 2021, 160, 1075-1094.	0.4	10
43	Defective Regulated Exocytosis in Mast Cells from Synaptotagmin-2 Knockout Mice.. <i>Blood</i> , 2005, 106, 3090-3090.	0.6	9
44	Genomic Organization, Chromosomal Localization, and Expression of the Murine RAB3D Gene. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 877-883.	1.0	8
45	Gene Structure and Promoter Function of Murine Munc18-2, a Nonneuronal Exocytic Sec1 Homolog. <i>Biochemical and Biophysical Research Communications</i> , 2000, 276, 817-822.	1.0	8
46	A Design-Based Stereologic Method to Quantify the Tissue Changes Associated with a Novel Drug-Eluting Tracheobronchial Stent. <i>Respiration</i> , 2019, 98, 60-69.	1.2	7
47	Munc18-2, but not Munc18-1 or Munc18-3, regulates platelet exocytosis, hemostasis, and thrombosis. <i>Journal of Biological Chemistry</i> , 2019, 294, 4784-4792.	1.6	5
48	SNAP23 is essential for platelet and mast cell development and required in connective tissue mast cells for anaphylaxis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100268.	1.6	4
49	Premature Coronary Artery Disease [CAD] in the Asian Immigrant Population: Data from a New York City Hospital. <i>Chest</i> , 2004, 126, 790S.	0.4	3
50	Megakaryocyte Specific Cre Transgenic Mouse.. <i>Blood</i> , 2004, 104, 3521-3521.	0.6	0
51	Mast Cell-Specific Gene Targeting.. <i>Blood</i> , 2005, 106, 3876-3876.	0.6	0