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Piecemeal degranulation of peripheral blood eosinophils: a study of allergic subjects during and out of the pollen season

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American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 521-9.

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#	Paper	IF	Citations
59	Cutting edge: eotaxin elicits rapid vesicular transport-mediated release of preformed IL-4 from human eosinophils. <i>Journal of Immunology</i> , 2001 , 166, 4813-7	5.3	84
58	Translocation of the tetraspanin CD63 in association with human eosinophil mediator release. <i>Blood</i> , 2002 , 99, 4039-47	2.2	72
57	Specific granules of human eosinophils have lysosomal characteristics: presence of lysosome-associated membrane proteins and acidification upon cellular activation. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 844-54	3.4	17
56	Granule changes of human and murine endocrine cells in the gastrointestinal epithelia are characteristic of piecemeal degranulation. <i>The Anatomical Record</i> , 2002 , 268, 353-9		17
55	Nasal challenges with recombinant derivatives of the major birch pollen allergen Bet v 1 induce fewer symptoms and lower mediator release than rBet v 1 wild-type in patients with allergic rhinitis. <i>Clinical and Experimental Allergy</i> , 2002 , 32, 1448-53	4.1	31
54	Eosinophil cationic protein is stored in, but not produced by, peripheral blood neutrophils. <i>Clinical and Experimental Allergy</i> , 2002 , 32, 1082-91	4.1	23
53	Helper T cells regulate type-2 innate immunity in vivo. <i>Nature</i> , 2002 , 420, 825-9	50.4	169
52	Chloroplast avoidance movement reduces photodamage in plants. <i>Nature</i> , 2002 , 420, 829-32	50.4	422
51	Ultrastructural morphology of adrenal chromaffin cells indicative of a process of piecemeal degranulation. <i>The Anatomical Record</i> , 2003 , 270, 103-8		21
50	Piecemeal degranulation as a general secretory mechanism?. <i>The Anatomical Record</i> , 2003 , 274, 778-84		62
49	The stimulus-dependent release of eosinophil cationic protein and eosinophil protein x increases in apoptotic eosinophils. <i>Scandinavian Journal of Immunology</i> , 2003 , 58, 312-20	3.4	4
48	Local release of eosinophil peroxidase following segmental allergen provocation in asthma. <i>Clinical and Experimental Allergy</i> , 2003 , 33, 331-6	4.1	12
47	Inhibition of prostate cancer cell growth by activated eosinophils. <i>Prostate</i> , 2003 , 57, 165-75	4.2	22
46	Piecemeal degranulation (PMD) morphology in feline circulating eosinophils. <i>Research in Veterinary Science</i> , 2003 , 75, 127-32	2.5	5
45	Eosinophil degranulation in the allergic lung of mice primarily occurs in the airway lumen. <i>Journal of Leukocyte Biology</i> , 2004 , 75, 1001-9	6.5	43
44	Chromaffin granules in the rat adrenal medulla release their secretory content in a particulate fashion. <i>The Anatomical Record</i> , 2004 , 277, 204-8		20
43	Circulating eosinophils in asthma, allergic rhinitis, and atopic dermatitis lack morphological signs of degranulation. <i>Clinical and Experimental Allergy</i> , 2005 , 35, 1334-40	4.1	38

42	Intragranular vesiculotubular compartments are involved in piecemeal degranulation by activated human eosinophils. <i>Traffic</i> , 2005 , 6, 866-79	5.7	80
41	Human eosinophils secrete preformed, granule-stored interleukin-4 through distinct vesicular compartments. <i>Traffic</i> , 2005 , 6, 1047-57	5.7	78
40	Piecemeal degranulation in human tumour pheochromocytes. <i>Journal of Anatomy</i> , 2005 , 206, 47-53	2.9	12
39	Ultrastructure of bronchial biopsies from patients with allergic and non-allergic asthma. <i>Respiratory Medicine</i> , 2005 , 99, 429-43	4.6	47
38	The eosinophil: the cell and its weapons, the cytokines, its locations. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2006 , 27, 117-27	3.9	62
37	Cytokine receptor-mediated trafficking of preformed IL-4 in eosinophils identifies an innate immune mechanism of cytokine secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3333-8	11.5	104
36	Ultrastructural examination of the host cellular response in the gills of Atlantic salmon, <i>Salmo salar</i> , with amoebic gill disease. <i>Veterinary Pathology</i> , 2007 , 44, 663-71	2.8	18
35	Mechanisms of eosinophil secretion: large vesiculotubular carriers mediate transport and release of granule-derived cytokines and other proteins. <i>Journal of Leukocyte Biology</i> , 2008 , 83, 229-36	6.5	83
34	The immune system and atopic dermatitis. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2008 , 27, 138-43	1.4	33
33	Differential expression and activation of Rab27A in human eosinophils: relationship to blood eosinophilia. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 373, 382-6	3.4	7
32	A new paradigm for eosinophil granule-dependent secretion. <i>Communicative and Integrative Biology</i> , 2009 , 2, 482-484	1.7	1
31	Eosinophil cationic protein (ECP) is processed during secretion. <i>Journal of Immunology</i> , 2009 , 183, 3949-53	5.3	43
30	Subcellular fractionation of human eosinophils: isolation of functional specific granules on isoosmotic density gradients. <i>Journal of Immunological Methods</i> , 2009 , 344, 64-72	2.5	24
29	Vesicle-mediated secretion of human eosinophil granule-derived major basic protein. <i>Laboratory Investigation</i> , 2009 , 89, 769-81	5.9	58
28	Functional extracellular eosinophil granules: novel implications in eosinophil immunobiology. <i>Current Opinion in Immunology</i> , 2009 , 21, 694-9	7.8	60
27	The human eosinophil proteome. Changes induced by birch pollen allergy. <i>Journal of Proteome Research</i> , 2009 , 8, 2720-32	5.6	7
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23	Patients with allergic rhinitis and allergic asthma share the same pattern of eosinophil and neutrophil degranulation after allergen challenge. <i>Clinical and Molecular Allergy</i> , 2011 , 9, 3	3.7	18
22	Ultrastructural changes in lactotrophs and somatotrophs of alloxan-induced diabetic rats and the possible protective effect of Elipoic acid. <i>Egyptian Journal of Histology</i> , 2012 , 35, 660-671	0.8	1
21	Altered secretory activity in rat adrenal chromaffin cells after experimentally induced bronchial asthma and dexamethasone treatment. <i>Egyptian Journal of Histology</i> , 2012 , 35, 117-126	0.8	1
20	Eosinophil crystalloid granules: structure, function, and beyond. <i>Journal of Leukocyte Biology</i> , 2012 , 92, 281-8	6.5	55
19	PI3-kinase regulates eosinophil and neutrophil degranulation in patients with allergic rhinitis and allergic asthma irrespective of allergen challenge model. <i>Inflammation</i> , 2012 , 35, 230-9	5.1	19
18	Eosinophils in Human Disease. 2013 , 431-536		2
17	Eosinophil Structure and Cell Surface Receptors. 2013 , 19-38		
16	Eosinophil Signal Transduction. 2013 , 167-227		
15	An extragranular compartment of blood eosinophils contains eosinophil protein X/eosinophil-derived neurotoxin (EPX/EDN). <i>Inflammation</i> , 2013 , 36, 320-9	5.1	3
14	Multifaceted roles of cysteinyl leukotrienes in eliciting eosinophil granule protein secretion. <i>BioMed Research International</i> , 2015 , 2015, 848762	3	7
13	Expression and subcellular localization of the Qa-SNARE syntaxin17 in human eosinophils. <i>Experimental Cell Research</i> , 2015 , 337, 129-135	4.2	10
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10	Eosinophil Cytokines in Allergy. 2017 , 173-218		7
9	Interleukin-13 in Asthma and Other Eosinophilic Disorders. <i>Frontiers in Medicine</i> , 2017 , 4, 139	4.9	54
8	Identification of Piecemeal Degranulation and Vesicular Transport of MBP-1 in Liver-Infiltrating Mouse Eosinophils During Acute Experimental Infection. <i>Frontiers in Immunology</i> , 2018 , 9, 3019	8.4	12
7	The Enigma of Eosinophil Degranulation. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4

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- 4 Eosinophil activation. **2022**, 107-157
- 3 Eosinophils as secretory cells. **2022**, 61-105
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- 1 Flow cytometric detection and microscopic observation of activated eosinophils in peripheral blood. ○