

# R C Melo

## List of Publications by Citations

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114  
papers

3,653  
citations

34  
h-index

57  
g-index

131  
ext. papers

4,407  
ext. citations

4.7  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
114	Mycobacterium bovis bacillus Calmette-Guérin induces TLR2-mediated formation of lipid bodies: intracellular domains for eicosanoid synthesis in vivo. <i>Journal of Immunology</i> , <b>2006</b> , 176, 3087-97	5.3	221
113	Eosinophil extracellular DNA trap cell death mediates lytic release of free secretion-competent eosinophil granules in humans. <i>Blood</i> , <b>2013</b> , 121, 2074-83	2.2	196
112	Roles and origins of leukocyte lipid bodies: proteomic and ultrastructural studies. <i>FASEB Journal</i> , <b>2007</b> , 21, 167-78	0.9	168
111	Lipid bodies in inflammatory cells: structure, function, and current imaging techniques. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2011</b> , 59, 540-56	3.4	115
110	Modulation of lipid droplets by Mycobacterium leprae in Schwann cells: a putative mechanism for host lipid acquisition and bacterial survival in phagosomes. <i>Cellular Microbiology</i> , <b>2011</b> , 13, 259-73	3.9	109
109	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> , <b>2006</b> , 103, 3333-8	11.5	104
108	Eosinophil granules function extracellularly as receptor-mediated secretory organelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18478-83	11.5	98
107	Eosinophils Promote Antiviral Immunity in Mice Infected with Influenza A Virus. <i>Journal of Immunology</i> , <b>2017</b> , 198, 3214-3226	5.3	92
106	Leukocyte lipid bodies regulation and function: contribution to allergy and host defense <b>2007</b> , 113, 30-49		91
105	Macrophage lipid body induction by Chagas disease in vivo: putative intracellular domains for eicosanoid formation during infection. <i>Tissue and Cell</i> , <b>2003</b> , 35, 59-67	2.7	86
104	Host cell lipid bodies triggered by Trypanosoma cruzi infection and enhanced by the uptake of apoptotic cells are associated with prostaglandin E <sub>2</sub> generation and increased parasite growth. <i>Journal of Infectious Diseases</i> , <b>2011</b> , 204, 951-61	7	84
103	Mechanisms of eosinophil secretion: large vesiculotubular carriers mediate transport and release of granule-derived cytokines and other proteins. <i>Journal of Leukocyte Biology</i> , <b>2008</b> , 83, 229-36	6.5	83
102	Eosinophils release extracellular DNA traps in response to Aspergillus fumigatus. <i>Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 141, 571-585.e7	11.5	80
101	Intragranular vesiculotubular compartments are involved in piecemeal degranulation by activated human eosinophils. <i>Traffic</i> , <b>2005</b> , 6, 866-79	5.7	80
100	Lipid body-phagosome interaction in macrophages during infectious diseases: host defense or pathogen survival strategy?. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002729	7.6	79
99	Human eosinophils secrete preformed, granule-stored interleukin-4 through distinct vesicular compartments. <i>Traffic</i> , <b>2005</b> , 6, 1047-57	5.7	78
98	Eosinophil secretion of granule-derived cytokines. <i>Frontiers in Immunology</i> , <b>2014</b> , 5, 496	8.4	77

97	Charcot-Leyden crystal formation is closely associated with eosinophil extracellular trap cell death. <i>Blood</i> , <b>2018</b> , 132, 2183-2187	2.2	76
96	Neutrophils recruited to the site of Mycobacterium bovis BCG infection undergo apoptosis and modulate lipid body biogenesis and prostaglandin E production by macrophages. <i>Cellular Microbiology</i> , <b>2008</b> , 10, 2589-604	3.9	71
95	Mycobacterium leprae intracellular survival relies on cholesterol accumulation in infected macrophages: a potential target for new drugs for leprosy treatment. <i>Cellular Microbiology</i> , <b>2014</b> , 16, 797-815	3.9	62
94	Vesicle-mediated secretion of human eosinophil granule-derived major basic protein. <i>Laboratory Investigation</i> , <b>2009</b> , 89, 769-81	5.9	58
93	Lipid bodies: Structural markers of inflammatory macrophages in innate immunity. <i>Inflammation Research</i> , <b>2006</b> , 55, 342-8	7.2	53
92	Piecemeal degranulation in human eosinophils: a distinct secretion mechanism underlying inflammatory responses. <i>Histology and Histopathology</i> , <b>2010</b> , 25, 1341-54	1.4	53
91	Pre-embedding immunogold labeling to optimize protein localization at subcellular compartments and membrane microdomains of leukocytes. <i>Nature Protocols</i> , <b>2014</b> , 9, 2382-94	18.8	52
90	Lipid droplet hijacking by intracellular pathogens. <i>Cellular Microbiology</i> , <b>2017</b> , 19, e12688	3.9	51
89	LQB-118, an orally active pterocarpanquinone, induces selective oxidative stress and apoptosis in Leishmania amazonensis. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2013</b> , 68, 789-99	5.1	51
88	Trypanosoma cruzi: peripheral blood monocytes and heart macrophages in the resistance to acute experimental infection in rats. <i>Experimental Parasitology</i> , <b>2001</b> , 97, 15-23	2.1	50
87	Lipid droplets in leukocytes: Organelles linked to inflammatory responses. <i>Experimental Cell Research</i> , <b>2016</b> , 340, 193-7	4.2	46
86	Contemporary understanding of the secretory granules in human eosinophils. <i>Journal of Leukocyte Biology</i> , <b>2018</b> , 104, 85-93	6.5	44
85	Eosinophil-derived cytokines in health and disease: unraveling novel mechanisms of selective secretion. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2013</b> , 68, 274-84	9.3	43
84	Production of hydrogen peroxide by peripheral blood monocytes and specific macrophages during experimental infection with Trypanosoma cruzi in vivo. <i>Cell Biology International</i> , <b>2003</b> , 27, 853-61	4.5	39
83	Imaging lipid bodies within leukocytes with different light microscopy techniques. <i>Methods in Molecular Biology</i> , <b>2011</b> , 689, 149-61	1.4	36
82	CCL11 elicits secretion of RNases from mouse eosinophils and their cell-free granules. <i>FASEB Journal</i> , <b>2012</b> , 26, 2084-93	0.9	36
81	CD63 is tightly associated with intracellular, secretory events chaperoning piecemeal degranulation and compound exocytosis in human eosinophils. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 100, 391-401	6.5	35
80	Mature human eosinophils express functional Notch ligands mediating eosinophil autocrine regulation. <i>Blood</i> , <b>2009</b> , 113, 3092-101	2.2	34

79	Lipid Body Organelles within the Parasite <i>Trypanosoma cruzi</i> : A Role for Intracellular Arachidonic Acid Metabolism. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160433	3.7	31
78	Histological assessment of granulomas in natural and experimental <i>Schistosoma mansoni</i> infections using whole slide imaging. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184696	3.7	30
77	Unraveling the complexity of lipid body organelles in human eosinophils. <i>Journal of Leukocyte Biology</i> , <b>2014</b> , 96, 703-12	6.5	28
76	The internal architecture of leukocyte lipid body organelles captured by three-dimensional electron microscopy tomography. <i>PLoS ONE</i> , <b>2013</b> , 8, e59578	3.7	26
75	Subcellular fractionation of human eosinophils: isolation of functional specific granules on isoosmotic density gradients. <i>Journal of Immunological Methods</i> , <b>2009</b> , 344, 64-72	2.5	24
74	Type 2 iodothyronine deiodinase is highly expressed in germ cells of adult rat testis. <i>Journal of Endocrinology</i> , <b>2007</b> , 194, 47-54	4.7	24
73	Noradrenergic and acetylcholinesterase-positive nerve fibres of the uterus in sexually immature and cycling rats. <i>The Histochemical Journal</i> , <b>1993</b> , 25, 213-8		24
72	Host Lipid Bodies as Platforms for Intracellular Survival of Protozoan Parasites. <i>Frontiers in Immunology</i> , <b>2016</b> , 7, 174	8.4	23
71	Antimicrobial <i>Annona muricata</i> L. (soursop) extract targets the cell membranes of Gram-positive and Gram-negative bacteria. <i>Industrial Crops and Products</i> , <b>2017</b> , 107, 332-340	5.9	22
70	Antibacterial and Antibiofilm Activities of Psychorubrin, a Pyranonaphthoquinone Isolated From (Rubiaceae). <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 724	5.7	22
69	Contributions of electron microscopy to understand secretion of immune mediators by human eosinophils. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 653-60	0.5	22
68	Extracellular Microvesicle Production by Human Eosinophils Activated by "Inflammatory" Stimuli. <i>Frontiers in Cell and Developmental Biology</i> , <b>2016</b> , 4, 117	5.7	22
67	MHC Class II and CD9 in human eosinophils localize to detergent-resistant membrane microdomains. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2012</b> , 46, 188-95	5.7	21
66	Trib1 regulates eosinophil lineage commitment and identity by restraining the neutrophil program. <i>Blood</i> , <b>2019</b> , 133, 2413-2426	2.2	20
65	Acute heart inflammation: ultrastructural and functional aspects of macrophages elicited by <i>Trypanosoma cruzi</i> infection. <i>Journal of Cellular and Molecular Medicine</i> , <b>2009</b> , 13, 279-94	5.6	20
64	Depletion of radiosensitive leukocytes exacerbates the heart sympathetic denervation and parasitism in experimental Chagas disease in rats. <i>Journal of Neuroimmunology</i> , <b>1998</b> , 84, 151-7	3.5	20
63	EliCell assay for the detection of released cytokines from eosinophils. <i>Journal of Immunological Methods</i> , <b>2003</b> , 276, 227-37	2.5	20
62	Whole Slide Imaging and Its Applications to Histopathological Studies of Liver Disorders. <i>Frontiers in Medicine</i> , <b>2019</b> , 6, 310	4.9	19

61	Increased production of outer membrane vesicles by cultured freshwater bacteria in response to ultraviolet radiation. <i>Microbiological Research</i> , <b>2017</b> , 194, 38-46	5.3	19
60	Natural <i>Schistosoma mansoni</i> Infection in the Wild Reservoir <i>Nectomys squamipes</i> Leads to Excessive Lipid Droplet Accumulation in Hepatocytes in the Absence of Liver Functional Impairment. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166979	3.7	19
59	Galectin-10, the protein that forms Charcot-Leyden crystals, is not stored in granules but resides in the peripheral cytoplasm of human eosinophils. <i>Journal of Leukocyte Biology</i> , <b>2020</b> , 108, 139-149	6.5	18
58	Potential effects of UV radiation on photosynthetic structures of the bloom-forming cyanobacterium <i>Cylindrospermopsis raciborskii</i> CYRF-01. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1202	5.7	18
57	Virus-bacterium coupling driven by both turbidity and hydrodynamics in an Amazonian floodplain lake. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 7194-201	4.8	18
56	Porins facilitate nitric oxide-mediated killing of mycobacteria. <i>Microbes and Infection</i> , <b>2009</b> , 11, 868-75	9.3	18
55	Relationship of sertoli-sertoli tight junctions to ectoplasmic specialization in conventional and en face views. <i>Biology of Reproduction</i> , <b>2002</b> , 67, 1232-41	3.9	18
54	Depletion of immune effector cells induces myocardial damage in the acute experimental <i>Trypanosoma cruzi</i> infection: ultrastructural study in rats. <i>Tissue and Cell</i> , <b>1999</b> , 31, 281-90	2.7	18
53	Visualizing aquatic bacteria by light and transmission electron microscopy. <i>Antonie Van Leeuwenhoek</i> , <b>2014</b> , 105, 1-14	2.1	17
52	The Cyanobacterium (CYRF-01) Responds to Environmental Stresses with Increased Vesiculation Detected at Single-Cell Resolution. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 272	5.7	16
51	Lipid bodies: inflammatory organelles implicated in host- <i>Trypanosoma cruzi</i> interplay during innate immune responses. <i>Mediators of Inflammation</i> , <b>2012</b> , 2012, 478601	4.3	16
50	Leukocyte lipid bodies: inflammation-related organelles are rapidly detected by wet scanning electron microscopy. <i>Journal of Lipid Research</i> , <b>2006</b> , 47, 2589-94	6.3	16
49	Peripheral blood monocytes show morphological pattern of activation and decreased nitric oxide production during acute Chagas disease in rats. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2004</b> , 11, 166-74	5	16
48	Antifungal Activity of the Natural Coumarin Scopoletin Against Planktonic Cells and Biofilms From a Multidrug-Resistant Strain. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1525	5.7	16
47	Activated human eosinophils. <i>International Archives of Allergy and Immunology</i> , <b>2005</b> , 138, 347-9	3.7	15
46	Cytotoxicity and bacterial membrane destabilization induced by <i>Annona squamosa</i> L. extracts. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2017</b> , 89, 2053-2073	1.4	14
45	Revisiting the human seminiferous epithelium cycle. <i>Human Reproduction</i> , <b>2017</b> , 32, 1170-1182	5.7	12
44	Vesicular trafficking of immune mediators in human eosinophils revealed by immunoelectron microscopy. <i>Experimental Cell Research</i> , <b>2016</b> , 347, 385-90	4.2	12

43	The intriguing ultrastructure of lipid body organelles within activated macrophages. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 869-78	0.5	12
42	Human Eosinophil Leukocytes Express Protein Disulfide Isomerase in Secretory Granules and Vesicles: Ultrastructural Studies. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2014</b> , 62, 450-459	3.4	12
41	Electron tomography and immunogold electron microscopy for investigating intracellular trafficking and secretion in human eosinophils. <i>Journal of Cellular and Molecular Medicine</i> , <b>2008</b> , 12, 1416-9	5.6	12
40	Identification of Piecemeal Degranulation and Vesicular Transport of MBP-1 in Liver-Infiltrating Mouse Eosinophils During Acute Experimental Infection. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 3019	8.4	12
39	Mitracarpus frigidus: A promising antifungal in the treatment of vulvovaginal candidiasis. <i>Industrial Crops and Products</i> , <b>2018</b> , 123, 731-739	5.9	11
38	Rat models to investigate host macrophage defense against Trypanosoma cruzi. <i>Journal of Innate Immunity</i> , <b>2011</b> , 3, 71-82	6.9	11
37	Expression and subcellular localization of the Qa-SNARE syntaxin17 in human eosinophils. <i>Experimental Cell Research</i> , <b>2015</b> , 337, 129-135	4.2	10
36	Rab7 controls lipid droplet-phagosome association during mycobacterial infection. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 158703	5	10
35	Spermatozoon and its relationship with the ovarian lamellae in the internally inseminating catfish Trachelyopterus galeatus. <i>Microscopy Research and Technique</i> , <b>2009</b> , 72, 889-97	2.8	10
34	The Charcot-Leyden crystal protein revisited-A lysopalmitoylphospholipase and more. <i>Journal of Leukocyte Biology</i> , <b>2020</b> , 108, 105-112	6.5	9
33	Single-Cell Analyses of Human Eosinophils at High Resolution to Understand Compartmentalization and Vesicular Trafficking of Interferon-Gamma. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1542	8.4	9
32	Histoplasma capsulatum-induced extracellular DNA trap release in human neutrophils. <i>Cellular Microbiology</i> , <b>2020</b> , 22, e13195	3.9	8
31	Characterization of neutrophil adhesion to different titanium surfaces. <i>Bulletin of Materials Science</i> , <b>2014</b> , 37, 157-166	1.7	8
30	Mice spermatogonial stem cells transplantation induces macrophage migration into the seminiferous epithelium and lipid body formation: high-resolution light microscopy and ultrastructural studies. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 1002-14	0.5	8
29	Structural and Signaling Events Driving -Induced Human Eosinophil Extracellular Trap Release. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 633696	5.7	8
28	Eosinophil ETosis-Mediated Release of Galectin-10 in Eosinophilic Granulomatosis With Polyangiitis. <i>Arthritis and Rheumatology</i> , <b>2021</b> , 73, 1683-1693	9.5	7
27	Mitracarpus frigidus is active against Salmonella enterica species including the biofilm form. <i>Industrial Crops and Products</i> , <b>2019</b> , 141, 111793	5.9	6
26	Histological approaches for high-quality imaging of zooplanktonic organisms. <i>Micron</i> , <b>2007</b> , 38, 714-21	2.3	6

25	Improved anti-Cutibacterium acnes activity of tea tree oil-loaded chitosan-poly(ε-caprolactone) core-shell nanocapsules. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111371	6	6
24	Impression Cytology Is a Non-invasive and Effective Method for Ocular Cell Retrieval of Zika Infected Babies: Perspectives in OMIC Studies. <i>Frontiers in Molecular Neuroscience</i> , <b>2019</b> , 12, 279	6.1	6
23	Cellular Imprinting Proteomics Assay: A Novel Method for Detection of Neural and Ocular Disorders Applied to Congenital Zika Virus Syndrome. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 4496-4515	5.6	5
22	Changing our view of the Schistosoma granuloma to an ecological standpoint. <i>Biological Reviews</i> , <b>2021</b> , 96, 1404-1420	13.5	3
21	Whole slide imaging is a high-throughput method to assess Candida biofilm formation. <i>Microbiological Research</i> , <b>2021</b> , 250, 126806	5.3	3
20	Histological approaches to study tissue parasitism during the experimental Trypanosoma cruzi infection. <i>Methods in Molecular Biology</i> , <b>2011</b> , 689, 69-80	1.4	2
19	The induction of host cell autophagy triggers defense mechanisms against Trypanosoma cruzi infection in vitro. <i>European Journal of Cell Biology</i> , <b>2020</b> , 99, 151060	6.1	2
18	TEM as an Important Tool to Study Aquatic Microorganisms and their Relationships with Ecological Processes <b>2016</b> ,		2
17	Spilanthol as a promising antifungal alkylamide for the treatment of vulvovaginal candidiasis. <i>Medical Mycology</i> , <b>2021</b> , 59, 1210-1224	3.9	2
16	A new approach for optimal morphological identification and immunolabeling of spermatogonial cells. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1304-11	0.5	1
15	A new paradigm for eosinophil granule-dependent secretion. <i>Communicative and Integrative Biology</i> , <b>2009</b> , 2, 482-484	1.7	1
14	A gel-based dual antibody capture and detection method for assaying of extracellular cytokine secretion: EliCell. <i>Methods in Molecular Biology</i> , <b>2005</b> , 302, 297-314	1.4	1
13	Methanolic extract of Mitracarpus frigidus inhibits filamentation and biofilm mode of growth from multidrug resistant Candida albicans. <i>Industrial Crops and Products</i> , <b>2021</b> , 172, 114074	5.9	1
12	Mitochondrial Population in Mouse Eosinophils: Ultrastructural Dynamics in Cell Differentiation and Inflammatory Diseases.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 836755	5.7	0
11	Chagas Disease: in vivo Acute Infection Induces Morphological Changes in Monocytes/Macrophages But Not Nitric Oxide Production. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 1408-1409	0.5	
10	Immature eosinophils <b>2022</b> , 253-286		
9	Mature eosinophils: General morphology <b>2022</b> , 7-60		
8	Eosinophil-associated diseases (EADs) <b>2022</b> , 289-394		

7 Eosinophil cell death **2022**, 207-252

6 Eosinophil activation **2022**, 107-157

5 Subcellular localization of immune mediators and other proteins **2022**, 159-206

4 Eosinophils as secretory cells **2022**, 61-105

3 Ultrastructure of mouse eosinophils **2022**, 397-473

2 Functionalized 1,2,3-triazolium salts as potential agents against visceral leishmaniasis.. *Parasitology Research*, **2022**, 121, 1389 2.4

1 Global RNAseq of ocular cells reveals gene dysregulation in both asymptomatic and with Congenital Zika Syndrome infants exposed prenatally to Zika virus.. *Experimental Cell Research*, **2022**, 414, 113086 4.2