

Paulo C Rodriguez

List of Publications by Citations

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122
papers

11,944
citations

45
h-index

109
g-index

145
ext. papers

14,483
ext. citations

10.1
avg, IF

6.22
L-index

#	Paper	IF	Citations
122	Recommendations for myeloid-derived suppressor cell nomenclature and characterization standards. <i>Nature Communications</i> , 2016 , 7, 12150	17.4	1388
121	Arginase I production in the tumor microenvironment by mature myeloid cells inhibits T-cell receptor expression and antigen-specific T-cell responses. <i>Cancer Research</i> , 2004 , 64, 5839-49	10.1	829
120	Arginase-producing myeloid suppressor cells in renal cell carcinoma patients: a mechanism of tumor evasion. <i>Cancer Research</i> , 2005 , 65, 3044-8	10.1	668
119	Arginase I-producing myeloid-derived suppressor cells in renal cell carcinoma are a subpopulation of activated granulocytes. <i>Cancer Research</i> , 2009 , 69, 1553-60	10.1	602
118	Myeloid-derived suppressor cells inhibit T-cell activation by depleting cystine and cysteine. <i>Cancer Research</i> , 2010 , 70, 68-77	10.1	588
117	L-arginine availability regulates T-lymphocyte cell-cycle progression. <i>Blood</i> , 2007 , 109, 1568-73	2.2	583
116	B7-H4 expression identifies a novel suppressive macrophage population in human ovarian carcinoma. <i>Journal of Experimental Medicine</i> , 2006 , 203, 871-81	16.6	548
115	Arginine regulation by myeloid derived suppressor cells and tolerance in cancer: mechanisms and therapeutic perspectives. <i>Immunological Reviews</i> , 2008 , 222, 180-91	11.3	481
114	Arginase I in myeloid suppressor cells is induced by COX-2 in lung carcinoma. <i>Journal of Experimental Medicine</i> , 2005 , 202, 931-9	16.6	464
113	Arginase, prostaglandins, and myeloid-derived suppressor cells in renal cell carcinoma. <i>Clinical Cancer Research</i> , 2007 , 13, 721s-726s	12.9	372
112	L-arginine consumption by macrophages modulates the expression of CD3 zeta chain in T lymphocytes. <i>Journal of Immunology</i> , 2003 , 171, 1232-9	5.3	354
111	Bone marrow myeloid-derived suppressor cells (MDSCs) inhibit graft-versus-host disease (GVHD) via an arginase-1-dependent mechanism that is up-regulated by interleukin-13. <i>Blood</i> , 2010 , 116, 5738-47 ²	7.2	339
110	Regulation of T cell receptor CD3zeta chain expression by L-arginine. <i>Journal of Biological Chemistry</i> , 2002 , 277, 21123-9	5.4	337
109	Inhibition of Fatty Acid Oxidation Modulates Immunosuppressive Functions of Myeloid-Derived Suppressor Cells and Enhances Cancer Therapies. <i>Cancer Immunology Research</i> , 2015 , 3, 1236-47	12.5	260
108	Tumor-infiltrating regulatory dendritic cells inhibit CD8+ T cell function via L-arginine metabolism. <i>Cancer Research</i> , 2009 , 69, 3086-94	10.1	202
107	Metabolism of L-arginine by myeloid-derived suppressor cells in cancer: mechanisms of T cell suppression and therapeutic perspectives. <i>Immunological Investigations</i> , 2012 , 41, 614-34	2.9	183
106	Subpopulations of myeloid-derived suppressor cells impair T cell responses through independent nitric oxide-related pathways. <i>International Journal of Cancer</i> , 2014 , 134, 2853-64	7.5	160

105	The stress-response sensor chop regulates the function and accumulation of myeloid-derived suppressor cells in tumors. <i>Immunity</i> , 2014 , 41, 389-401	32.3	155
104	L-Arginine depletion blunts antitumor T-cell responses by inducing myeloid-derived suppressor cells. <i>Cancer Research</i> , 2015 , 75, 275-83	10.1	150
103	L-Arginine modulates CD3zeta expression and T cell function in activated human T lymphocytes. <i>Cellular Immunology</i> , 2004 , 232, 21-31	4.4	147
102	Arginine Metabolism in Myeloid Cells Shapes Innate and Adaptive Immunity. <i>Frontiers in Immunology</i> , 2017 , 8, 93	8.4	145
101	Arginase: A Multifaceted Enzyme Important in Health and Disease. <i>Physiological Reviews</i> , 2018 , 98, 641-669	6.5	143
100	IRE1XBP1 controls T cell function in ovarian cancer by regulating mitochondrial activity. <i>Nature</i> , 2018 , 562, 423-428	50.4	139
99	Crystal structure of human arginase I at 1.29-A resolution and exploration of inhibition in the immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13058-63	11.5	137
98	Exogenous lipid uptake induces metabolic and functional reprogramming of tumor-associated myeloid-derived suppressor cells. <i>OncImmunity</i> , 2017 , 6, e1344804	7.2	130
97	Helicobacter pylori arginase inhibits T cell proliferation and reduces the expression of the TCR zeta-chain (CD3zeta). <i>Journal of Immunology</i> , 2004 , 173, 586-93	5.3	99
96	Macrophage arginase-1 controls bacterial growth and pathology in hypoxic tuberculosis granulomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4024-32	11.5	87
95	Tumor derived stress triggers C/EBP homologous protein (Chop) expression in myeloid derived suppressor cells (MDSC) and mediates immunosuppressive activity 2014 , 2,		78
94	Antigen-specific T cells conditioned with MDSC display a surprising increased anti-tumor activity after adoptive T cell-based immunotherapy 2015 , 3, P413		78
93	Independent mechanisms of T cell-suppression by subpopulations of myeloid-derived suppressor cells (MDSC) in tumor-bearing hosts 2013 , 1, P193		78
92	OTME-17. Single cell characterization of the immune microenvironment of melanoma brain and leptomenigeal metastases. <i>Neuro-Oncology Advances</i> , 2021 , 3, ii17-ii17	0.9	78
91	LMD-03. Single cell analysis reveals how therapy remodels the tumor microenvironment in melanoma CNS metastases and uncovers a novel predictor of improved survival. <i>Neuro-Oncology Advances</i> , 2021 , 3, iii7-iii8	0.9	78
90	Pegylated arginase I: a potential therapeutic approach in T-ALL. <i>Blood</i> , 2010 , 115, 5214-21	2.2	75
89	The central role of arginine catabolism in T-cell dysfunction and increased susceptibility to infection after physical injury. <i>Annals of Surgery</i> , 2014 , 259, 171-8	7.8	68
88	Activation of p53 in Immature Myeloid Precursor Cells Controls Differentiation into Ly6cCD103 Monocytic Antigen-Presenting Cells in Tumors. <i>Immunity</i> , 2018 , 48, 91-106.e6	32.3	63

87	L-arginine deprivation regulates cyclin D3 mRNA stability in human T cells by controlling HuR expression. <i>Journal of Immunology</i> , 2010 , 185, 5198-204	5.3	63
86	Differential PI3K Signaling in CD4 T-cell Subsets Enables Selective Targeting of T Regulatory Cells to Enhance Cancer Immunotherapy. <i>Cancer Research</i> , 2017 , 77, 1892-1904	10.1	60
85	CD73 on cancer-associated fibroblasts enhanced by the A-mediated feedforward circuit enforces an immune checkpoint. <i>Nature Communications</i> , 2020 , 11, 515	17.4	56
84	Rescue of notch-1 signaling in antigen-specific CD8+ T cells overcomes tumor-induced T-cell suppression and enhances immunotherapy in cancer. <i>Cancer Immunology Research</i> , 2014 , 2, 800-11	12.5	53
83	T cell dysfunction in cancer: role of myeloid cells and tumor cells regulating amino acid availability and oxidative stress. <i>Seminars in Cancer Biology</i> , 2006 , 16, 66-72	12.7	53
82	Unfolding anti-tumor immunity: ER stress responses sculpt tolerogenic myeloid cells in cancer 2017 , 5, 5		49
81	Endoplasmic reticulum stress regulates tumor growth and anti-tumor immunity: a promising opportunity for cancer immunotherapy. <i>Cancer Immunology, Immunotherapy</i> , 2017 , 66, 1069-1078	7.4	46
80	Requirement for inducible nitric oxide synthase in chronic allergen exposure-induced pulmonary fibrosis but not inflammation. <i>Journal of Immunology</i> , 2010 , 185, 3076-85	5.3	46
79	Trp53 inactivation in the tumor microenvironment promotes tumor progression by expanding the immunosuppressive lymphoid-like stromal network. <i>Cancer Research</i> , 2013 , 73, 1668-75	10.1	45
78	Mechanisms of tumor evasion. <i>Cancer Treatment and Research</i> , 2005 , 123, 61-88	3.5	45
77	Sildenafil Suppresses Inflammation-Driven Colorectal Cancer in Mice. <i>Cancer Prevention Research</i> , 2017 , 10, 377-388	3.2	43
76	Anti-Jagged Immunotherapy Inhibits MDSCs and Overcomes Tumor-Induced Tolerance. <i>Cancer Research</i> , 2017 , 77, 5628-5638	10.1	43
75	Targeting sphingosine kinase induces apoptosis and tumor regression for KSHV-associated primary effusion lymphoma. <i>Molecular Cancer Therapeutics</i> , 2014 , 13, 154-64	6.1	43
74	Citrulline can preserve proliferation and prevent the loss of CD3 zeta chain under conditions of low arginine. <i>Journal of Parenteral and Enteral Nutrition</i> , 2004 , 28, 423-30	4.2	43
73	ER stress-induced mediator C/EBP homologous protein thwarts effector T cell activity in tumors through T-bet repression. <i>Nature Communications</i> , 2019 , 10, 1280	17.4	42
72	Anti-leukemic mechanisms of pegylated arginase I in acute lymphoblastic T-cell leukemia. <i>Leukemia</i> , 2013 , 27, 569-77	10.7	42
71	TLR9 engagement on CD4 T lymphocytes represses gamma-radiation-induced apoptosis through activation of checkpoint kinase response elements. <i>Blood</i> , 2008 , 111, 2704-13	2.2	38
70	The Unfolded Protein Response Mediator PERK Governs Myeloid Cell-Driven Immunosuppression in Tumors through Inhibition of STING Signaling. <i>Immunity</i> , 2020 , 52, 668-682.e7	32.3	38

69	Enhanced Therapeutic Efficacy and Memory of Tumor-Specific CD8 T Cells by PI3K- α Inhibition. <i>Cancer Research</i> , 2017 , 77, 4135-4145	10.1	36
68	Energy metabolic pathways control the fate and function of myeloid immune cells. <i>Journal of Leukocyte Biology</i> , 2017 , 102, 369-380	6.5	34
67	BTN3A1 governs antitumor responses by coordinating α and β T cells. <i>Science</i> , 2020 , 369, 942-949	33.3	33
66	Notch Signaling in Myeloid Cells as a Regulator of Tumor Immune Responses. <i>Frontiers in Immunology</i> , 2018 , 9, 1288	8.4	31
65	Expression of arginase I in myeloid cells limits control of residual disease after radiation therapy of tumors in mice. <i>Radiation Research</i> , 2014 , 182, 182-90	3.1	31
64	MEK inhibition reprograms CD8 T lymphocytes into memory stem cells with potent antitumor effects. <i>Nature Immunology</i> , 2021 , 22, 53-66	19.1	31
63	Effects of cigarette smoke extract on primary activated T cells. <i>Cellular Immunology</i> , 2013 , 282, 38-43	4.4	29
62	PARP inhibition by olaparib or gene knockout blocks asthma-like manifestation in mice by modulating CD4(+) T cell function. <i>Journal of Translational Medicine</i> , 2015 , 13, 225	8.5	28
61	IgA transcytosis and antigen recognition govern ovarian cancer immunity. <i>Nature</i> , 2021 , 591, 464-470	50.4	28
60	IDO, PTEN-expressing Tregs and control of antigen-presentation in the murine tumor microenvironment. <i>Cancer Immunology, Immunotherapy</i> , 2017 , 66, 1049-1058	7.4	27
59	Adenosine A2A Receptor Stimulation Inhibits TCR-Induced Notch1 Activation in CD8+T-Cells. <i>Frontiers in Immunology</i> , 2019 , 10, 162	8.4	26
58	Mechanisms of tumor evasion from the immune response. <i>Cancer Chemotherapy and Biological Response Modifiers</i> , 2003 , 21, 351-64		26
57	Metabolic reprogramming of myeloid-derived suppressor cells (MDSC) in cancer. <i>Oncotmunology</i> , 2016 , 5, e1200771	7.2	26
56	Arginase 1 promotes retinal neurovascular protection from ischemia through suppression of macrophage inflammatory responses. <i>Cell Death and Disease</i> , 2018 , 9, 1001	9.8	26
55	PARP is activated in human asthma and its inhibition by olaparib blocks house dust mite-induced disease in mice. <i>Clinical Science</i> , 2015 , 129, 951-62	6.5	25
54	Canonical NF κ B signaling in myeloid cells is required for the glioblastoma growth. <i>Scientific Reports</i> , 2017 , 7, 13754	4.9	24
53	Polycyclic aromatic hydrocarbons-induced ROS accumulation enhances mutagenic potential of T-antigen from human polyomavirus JC. <i>Journal of Cellular Physiology</i> , 2013 , 228, 2127-38	7	24
52	Tumor interferon signaling and suppressive myeloid cells are associated with CAR T-cell failure in large B-cell lymphoma. <i>Blood</i> , 2021 , 137, 2621-2633	2.2	23

51	DNA-dependent protein kinase inhibition blocks asthma in mice and modulates human endothelial and CD4+ T-cell function without causing severe combined immunodeficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 135, 425-40	11.5	21
50	AMPK Alpha-1 Intrinsically Regulates the Function and Differentiation of Tumor Myeloid-Derived Suppressor Cells. <i>Cancer Research</i> , 2019 , 79, 5034-5047	10.1	20
49	Fuelling the mechanisms of asthma: Increased fatty acid oxidation in inflammatory immune cells may represent a novel therapeutic target. <i>Clinical and Experimental Allergy</i> , 2017 , 47, 1170-1184	4.1	18
48	Minocycline blocks asthma-associated inflammation in part by interfering with the T cell receptor-nuclear factor B-GATA-3-IL-4 axis without a prominent effect on poly(ADP-ribose) polymerase. <i>Journal of Biological Chemistry</i> , 2013 , 288, 1458-68	5.4	18
47	The inhibitory receptor TIM-3 limits activation of the cGAS-STING pathway in intra-tumoral dendritic cells by suppressing extracellular DNA uptake. <i>Immunity</i> , 2021 , 54, 1154-1167.e7	32.3	18
46	IL-7R α deficiency in p53null mice exacerbates thymocyte telomere erosion and lymphomagenesis. <i>Cell Death and Differentiation</i> , 2012 , 19, 1139-51	12.7	17
45	ABC294640, A Novel Sphingosine Kinase 2 Inhibitor, Induces Oncogenic Virus-Infected Cell Autophagic Death and Represses Tumor Growth. <i>Molecular Cancer Therapeutics</i> , 2017 , 16, 2724-2734	6.1	16
44	Role of c-Myb in the survival of pre B-cell acute lymphoblastic leukemia and leukemogenesis. <i>American Journal of Hematology</i> , 2012 , 87, 969-76	7.1	16
43	The cellular metabolic landscape in the tumor milieu regulates the activity of myeloid infiltrates. <i>Cellular and Molecular Immunology</i> , 2018 , 15, 421-427	15.4	14
42	Single-Cell Characterization of the Immune Microenvironment of Melanoma Brain and Leptomeningeal Metastases. <i>Clinical Cancer Research</i> , 2021 , 27, 4109-4125	12.9	14
41	Detection of alloantibodies against non-HLA antigens in kidney transplantation by flow cytometry. <i>Clinical Transplantation</i> , 2000 , 14, 472-8	3.8	13
40	T cells conditioned with MDSC show an increased anti-tumor activity after adoptive T cell based immunotherapy. <i>Oncotarget</i> , 2016 , 7, 17565-78	3.3	13
39	Inhibition of Human Dendritic Cell ER Stress Response Reduces T Cell Alloreactivity Yet Spares Donor Anti-tumor Immunity. <i>Frontiers in Immunology</i> , 2018 , 9, 2887	8.4	13
38	Polyphenol-rich extract induces apoptosis with immunogenic markers in melanoma cells through the ER stress-associated kinase PERK. <i>Cell Death Discovery</i> , 2019 , 5, 134	6.9	12
37	Corneal neovascularization: a review of the molecular biology and current therapies. <i>Expert Review of Ophthalmology</i> , 2013 , 8, 167-189	1.5	9
36	Effective antitumor peptide vaccines can induce severe autoimmune pathology. <i>Oncotarget</i> , 2017 , 8, 70317-70331	3.3	9
35	Arginase I levels are decreased in the plasma of pediatric patients with atopic dermatitis. <i>Annals of Allergy, Asthma and Immunology</i> , 2014 , 113, 271-5	3.2	8
34	Innate immune cells in the tumor microenvironment. <i>Cancer Cell</i> , 2021 , 39, 725-729	24.3	5

33	Detection of allo- and autoantibodies in kidney transplantation by flow cytometry. <i>Transplantation Proceedings</i> , 1999 , 31, 282-4	1.1	4
32	Inhibition of the BTK-IDO-mTOR axis promotes differentiation of monocyte-lineage dendritic cells and enhances anti-tumor T cell immunity. <i>Immunity</i> , 2021 , 54, 2354-2371.e8	32.3	4
31	Inhibition of fatty acid oxidation modulates immunosuppressive functions of myeloid-derived suppressor cells and enhances cancer therapies 2015 , 3,		3
30	c-Maf: a bad influence in the education of macrophages. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1629-1631	15.3	3
29	Targeted Therapy Given after Anti-PD-1 Leads to Prolonged Responses in Mouse Melanoma Models through Sustained Antitumor Immunity. <i>Cancer Immunology Research</i> , 2021 , 9, 554-567	12.5	3
28	Genomic and single-cell landscape reveals novel drivers and therapeutic vulnerabilities of transformed cutaneous T-cell lymphoma.. <i>Cancer Discovery</i> , 2022 ,	24.4	3
27	The antimicrobial agent C31G is effective for therapy for HSV-1 ocular keratitis in the rabbit eye model. <i>Antiviral Research</i> , 2013 , 100, 14-9	10.8	2
26	TGF-β-mediated silencing of genomic organizer SATB1 promotes Tfh cell differentiation and formation of intra-tumoral tertiary lymphoid structures.. <i>Immunity</i> , 2022 , 55, 115-128.e9	32.3	2
25	Ovarian cancer immunogenicity is governed by a narrow subset of progenitor tissue-resident memory T cells.. <i>Cancer Cell</i> , 2022 ,	24.3	2
24	Arginine Metabolism, a Major Pathway for the Suppressive Function of Myeloid-Derived Suppressor Cells 2014 , 369-386		1
23	Modulation of T cell function through L-arginine metabolism: a new therapy from an old enemy 2013 , 1, O10		1
22	P-189 Pegylated Arginase-1 Mediates Suppression of Mouse and Human CD4 T CellsL-arginine Catabolism as a Potential Therapy for IBD. <i>Inflammatory Bowel Diseases</i> , 2013 , 19, S101	4.5	1
21	PARADOXICAL ROLES OF PARP-1 IN COLON INFLAMMATION AND TUMORIGENESIS. <i>FASEB Journal</i> , 2015 , 29, 629.11	0.9	1
20	Myeloid-Derived Suppressor Cells in Cancer: Mechanisms and Therapeutic Perspectives 2013 , 315-333		1
19	Olaparib, a PARP inhibitor approved for human testing, prevents allergen-induced airway inflammation and hyperresponsiveness in a mouse model of asthma and reduces proliferation of human CD3/C28-stimulated CD4+ T cells. <i>FASEB Journal</i> , 2013 , 27, 1107.1	0.9	1
18	Tumor-related stress regulates functional plasticity of MDSCs. <i>Cellular Immunology</i> , 2021 , 363, 104312	4.4	1
17	Methyltransferase inhibitors restore SATB1 protective activity against cutaneous T cell lymphoma in mice. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
16	Increased inflammatory low-density neutrophils in severe obesity and effect of bariatric surgery: Results from case-control and prospective cohort studies.. <i>EBioMedicine</i> , 2022 , 77, 103910	8.8	1

- 15 IgA-dominated humoral immune responses govern patients' outcome in endometrial cancer.. *Cancer Research*, **2021**, 10.1 1
- 14 Cavity macrophages stop anti-tumor T cells. *Cancer Cell*, **2021**, 39, 900-902 24.3 0
- 13 Arginine Availability Regulates T-Cell Function in Cancer **2008**, 219-233
- 12 Immune Defects in T Cells From Cancer Patients **2004**, 35-48
- 11 Tumors induce regulatory dendritic cells that suppress CD8+ T cell antitumor immunity. *FASEB Journal*, **2008**, 22, 1078.4 0.9
- 10 DNA-Dependent Protein Kinase Inhibition Blocks Asthma in Mice and Modulates Human Endothelial and CD4+T Cell Function Without Causing SCID. *FASEB Journal*, **2015**, 29, 626.6 0.9
- 9 PARP Inhibition Blocks Asthma Manifestation in a Chronic House Dust Mite (HDM) Asthma Model and Differentially Modulates Human CD4+T cell Function. *FASEB Journal*, **2015**, 29, 1027.5 0.9
- 8 Soluble Mediators of Immune Suppression in the Tumor Microenvironment **2016**, 526-533
- 7 Requirement for iNOS in chronic allergen exposure-induced pulmonary fibrosis but not inflammation or mucus production: Specific implications of TGF- β , TIMP-2, and arginase-2 expression. *FASEB Journal*, **2010**, 24, 31.7 0.9
- 6 Bone Marrow Myeloid-Derived Suppressor Cells (MDSC) Inhibit Graft Versus Host Disease (GVHD) Via An Arginase-1 Dependant Mechanism That Is Upregulated by IL-13. *Blood*, **2010**, 116, 241-241 2.2
- 5 Myeloid-Derived Suppressor Cells in Cancer: Mechanisms and Therapeutic Perspectives **2012**, 319-334
- 4 L-arginine depletion by PEG-arginase I, a new potential therapy for acute lymphoblastic leukemia.. *Journal of Clinical Oncology*, **2012**, 30, 6580-6580 2.2
- 3 MINOCYCLINE BLOCKS ALLERGEN-INDUCED EOSINOPHILIA AND PRODUCTION OF TH2 CYTOKINES AND IGE BY INTERFERING WITH THE T CELL RECEPTOR-NF-kB-GATA-3-INTERLEUKIN (IL)-4 AXIS IN A MURINE ASTHMA MODEL WITHOUT AN EFFECT ON PARP. *FASEB Journal*, **2013**, 27, 254.2 0.9
- 2 Modulation Of T Cell Function Through L-Arginine Metabolism: A New Therapy From An Old Enemy. *Blood*, **2013**, 122, 1039-1039 2.2
- 1 Notch Signaling: A Pivot Regulator of Adaptive and Innate Immunity **2018**, 127-151