

Francesca Granucci

List of Publications by Year in descending order

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129
papers

11,068
citations

50276

46
h-index

30922

102
g-index

135
all docs

135
docs citations

135
times ranked

14817
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic cells express tight junction proteins and penetrate gut epithelial monolayers to sample bacteria. <i>Nature Immunology</i> , 2001, 2, 361-367.	14.5	2,239
2	Maturation Stages of Mouse Dendritic Cells in Growth Factor-dependent Long-Term Cultures. <i>Journal of Experimental Medicine</i> , 1997, 185, 317-328.	8.5	793
3	CD14 Controls the LPS-Induced Endocytosis of Toll-like Receptor 4. <i>Cell</i> , 2011, 147, 868-880.	28.9	765
4	Molecular Mimicry by Herpes Simplex Virus-Type 1: Autoimmune Disease After Viral Infection. <i>Science</i> , 1998, 279, 1344-1347.	12.6	482
5	Inducible IL-2 production by dendritic cells revealed by global gene expression analysis. <i>Nature Immunology</i> , 2001, 2, 882-888.	14.5	449
6	Type III interferons disrupt the lung epithelial barrier upon viral recognition. <i>Science</i> , 2020, 369, 706-712.	12.6	301
7	CD14 regulates the dendritic cell life cycle after LPS exposure through NFAT activation. <i>Nature</i> , 2009, 460, 264-268.	27.8	279
8	Infection of dendritic cells by murine cytomegalovirus induces functional paralysis. <i>Nature Immunology</i> , 2001, 2, 1077-1084.	14.5	244
9	Role of CD14 in host protection against infections and in metabolism regulation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 32.	3.9	201
10	A Contribution of Mouse Dendritic Cell-Derived IL-2 for NK Cell Activation. <i>Journal of Experimental Medicine</i> , 2004, 200, 287-295.	8.5	200
11	The European dimension for the mouse genome mutagenesis program. <i>Nature Genetics</i> , 2004, 36, 925-927.	21.4	195
12	IFN- γ suppresses intestinal inflammation by non-translational regulation of neutrophil function. <i>Nature Immunology</i> , 2017, 18, 1084-1093.	14.5	195
13	Coordinated events during bacteria-induced DC maturation. <i>Trends in Immunology</i> , 1999, 20, 200-203.	7.5	194
14	Glial TLR4 receptor as new target to treat neuropathic pain: Efficacy of a new receptor antagonist in a model of peripheral nerve injury in mice. <i>Glia</i> , 2008, 56, 1312-1319.	4.9	173
15	Early IL-2 Production by Mouse Dendritic Cells Is the Result of Microbial-Induced Priming. <i>Journal of Immunology</i> , 2003, 170, 5075-5081.	0.8	161
16	Deciphering the complexity of Toll-like receptor signaling. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 4109-4134.	5.4	133
17	Transcriptional reprogramming of dendritic cells by differentiation stimuli. <i>European Journal of Immunology</i> , 2001, 31, 2539-2546.	2.9	129
18	Analysis of the Relationship between Viral Infection and Autoimmune Disease. <i>Immunity</i> , 2001, 15, 137-147.	14.3	120

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19	Early events in dendritic cell maturation induced by LPS. <i>Microbes and Infection</i> , 1999, 1, 1079-1084.	1.9	117
20	Microglia induce myelin basic protein-specific T cell anergy or T cell activation, according to their state of activation. <i>European Journal of Immunology</i> , 1999, 29, 3063-3076.	2.9	112
21	Upon dendritic cell (DC) activation chemokines and chemokine receptor expression are rapidly regulated for recruitment and maintenance of DC at the inflammatory site. <i>International Immunology</i> , 1999, 11, 979-986.	4.0	111
22	Interpretation of the complexity of innate immune responses by functional genomics. <i>Nature Reviews Immunology</i> , 2002, 2, 881-888.	22.7	105
23	A power law global error model for the identification of differentially expressed genes in microarray data. <i>BMC Bioinformatics</i> , 2004, 5, 203.	2.6	105
24	The scavenger receptor MARCO mediates cytoskeleton rearrangements in dendritic cells and microglia. <i>Blood</i> , 2003, 102, 2940-2947.	1.4	104
25	Granulocyte-Macrophage Colony-Stimulating Factor Induces an Expression Program in Neonatal Microglia That Primes Them for Antigen Presentation. <i>Journal of Immunology</i> , 2002, 169, 2264-2273.	0.8	101
26	Type III interferons: Balancing tissue tolerance and resistance to pathogen invasion. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	101
27	NEW EMBO MEMBER'S REVIEW: Dendritic cell regulation of immune responses: a new role for interleukin 2 at the intersection of innate and adaptive immunity. <i>EMBO Journal</i> , 2003, 22, 2546-2551.	7.8	100
28	Below the surface: The inner lives of TLR4 and TLR9. <i>Journal of Leukocyte Biology</i> , 2019, 106, 147-160.	3.3	97
29	Interferon (IFN)- γ Takes the Helm: Immunomodulatory Roles of Type III IFNs. <i>Frontiers in Immunology</i> , 2017, 8, 1661.	4.8	96
30	Dendritic cell-derived IL-2 production is regulated by IL-15 in humans and in mice. <i>Blood</i> , 2005, 105, 697-702.	1.4	88
31	Migratory, and not lymphoid-resident, dendritic cells maintain peripheral self-tolerance and prevent autoimmunity via induction of iTreg cells. <i>Blood</i> , 2012, 120, 1237-1245.	1.4	79
32	Central role of dendritic cells in the regulation and deregulation of immune responses. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 1683-1697.	5.4	78
33	Drug nanocarriers to treat autoimmunity and chronic inflammatory diseases. <i>Seminars in Immunology</i> , 2017, 34, 61-67.	5.6	69
34	IL-15 cis Presentation Is Required for Optimal NK Cell Activation in Lipopolysaccharide-Mediated Inflammatory Conditions. <i>Cell Reports</i> , 2013, 4, 1235-1249.	6.4	66
35	Molecular events of bacterial-induced maturation of dendritic cells. <i>Journal of Clinical Immunology</i> , 2000, 20, 161-166.	3.8	65
36	Dendritic Cell Biology. <i>Advances in Immunology</i> , 2005, 88, 193-233.	2.2	65

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37	A Type I IFN-Dependent Pathway Induced by <i>Schistosoma mansoni</i> Eggs in Mouse Myeloid Dendritic Cells Generates an Inflammatory Signature. <i>Journal of Immunology</i> , 2004, 172, 3011-3017.	0.8	63
38	TLR-Dependent Activation Stimuli Associated with Th1 Responses Confer NK Cell Stimulatory Capacity to Mouse Dendritic Cells. <i>Journal of Immunology</i> , 2005, 175, 286-292.	0.8	62
39	Differential Expression Regulation of the $\hat{1}$ and $\hat{2}$ Subunits of the PA28 Proteasome Activator in Mature Dendritic Cells. <i>Journal of Immunology</i> , 2005, 174, 7815-7822.	0.8	60
40	Regulation and dysregulation of innate immunity by NFAT signaling downstream of pattern recognition receptors (PRRs). <i>European Journal of Immunology</i> , 2012, 42, 1924-1931.	2.9	60
41	A central role for tissue-resident dendritic cells in innate responses. <i>Trends in Immunology</i> , 2004, 25, 650-654.	6.8	56
42	Differential activation of $\text{NF-}\hat{\text{B}}$ subunits in dendritic cells in response to Gram-negative bacteria and to lipopolysaccharide. <i>Microbes and Infection</i> , 2001, 3, 259-265.	1.9	53
43	Regulation of antigen uptake, migration, and lifespan of dendritic cell by Toll-like receptors. <i>Journal of Molecular Medicine</i> , 2010, 88, 873-880.	3.9	53
44	Effects of dexamethazone on LPS-induced activation and migration of mouse dendritic cells revealed by a genome-wide transcriptional analysis. <i>European Journal of Immunology</i> , 2006, 36, 1504-1515.	2.9	51
45	Microbe- and danger-induced inflammation. <i>Molecular Immunology</i> , 2015, 63, 127-133.	2.2	49
46	Vaccination with filamentous bacteriophages targeting DEC-205 induces DC maturation and potent anti-tumor T cell responses in the absence of adjuvants. <i>European Journal of Immunology</i> , 2011, 41, 2573-2584.	2.9	48
47	Increased frequency of activated CD8+ T cell effectors in patients with psoriatic arthritis. <i>Scientific Reports</i> , 2019, 9, 10870.	3.3	48
48	IL-2 mediates adjuvant effect of dendritic cells. <i>Trends in Immunology</i> , 2002, 23, 169-171.	6.8	47
49	Modulation of cytokine expression in mouse dendritic cell clones. <i>European Journal of Immunology</i> , 1994, 24, 2522-2526.	2.9	46
50	Interactions of bacterial pathogens with dendritic cells during invasion of mucosal surfaces. <i>Current Opinion in Microbiology</i> , 2003, 6, 72-76.	5.1	45
51	Uniform Lipopolysaccharide (LPS)-Loaded Magnetic Nanoparticles for the Investigation of LPS- TLR4 Signaling. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 622-626.	13.8	44
52	Modulation of CD14 and TLR4 Activities by a Synthetic Lipid A Mimetic. <i>ChemBioChem</i> , 2014, 15, 250-258.	2.6	44
53	Gene Expression Profiles Identify Inflammatory Signatures in Dendritic Cells. <i>PLoS ONE</i> , 2010, 5, e9404.	2.5	44
54	A critical role for lipophosphoglycan in proinflammatory responses of dendritic cells to <i>Leishmania mexicana</i> . <i>European Journal of Immunology</i> , 2005, 35, 476-486.	2.9	43

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55	Similarities and differences of innate immune responses elicited by smooth and rough LPS. <i>Immunology Letters</i> , 2012, 142, 41-47.	2.5	42
56	Toll-like receptor 4 modulation influences human neural stem cell proliferation and differentiation. <i>Cell Death and Disease</i> , 2018, 9, 280.	6.3	39
57	CD14 and NFAT mediate lipopolysaccharide-induced skin edema formation in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 1747-1757.	8.2	36
58	Differences in lipopolysaccharide-induced signaling between conventional dendritic cells and macrophages. <i>Immunobiology</i> , 2010, 215, 709-712.	1.9	35
59	A Dairy Bacterium Displays <i>in vivo</i> Probiotic Properties for the Pharyngeal Mucosa by Antagonizing Group A Streptococci and Modulating the Immune Response. <i>Infection and Immunity</i> , 2010, 78, 4734-4743.	2.2	34
60	Dendritic cells in pathogen recognition and induction of immune responses: a functional genomics approach. <i>Journal of Leukocyte Biology</i> , 2006, 79, 913-916.	3.3	33
61	Inflammatory role of dendritic cells in Amyotrophic Lateral Sclerosis revealed by an analysis of patients' peripheral blood. <i>Scientific Reports</i> , 2017, 7, 7853.	3.3	33
62	Toll-like receptor 4 is not required for the full maturation of dendritic cells or for the degradation of Gram-negative bacteria. <i>European Journal of Immunology</i> , 2002, 32, 2800-2806.	2.9	30
63	Prolonged contact with dendritic cells turns lymph node-resident NK cells into anti-tumor effectors. <i>EMBO Molecular Medicine</i> , 2016, 8, 1039-1051.	6.9	30
64	Induction of Peripheral T Cell Tolerance by Antigen-Presenting B Cells. II. Chronic Antigen Presentation Overrides Antigen-Presenting B Cell Activation. <i>Journal of Immunology</i> , 2006, 176, 4021-4028.	0.8	29
65	The dendritic cell life cycle. <i>Cell Cycle</i> , 2009, 8, 3816-3821.	2.6	29
66	Wiskott-Aldrich syndrome protein deficiency in natural killer and dendritic cells affects antitumor immunity. <i>European Journal of Immunology</i> , 2014, 44, 1039-1045.	2.9	29
67	Inhibition of Lipid A Stimulated Activation of Human Dendritic Cells and Macrophages by Amino and Hydroxylamino Monosaccharides. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3308-3312.	13.8	28
68	The regulatory role of dendritic cells in the induction and maintenance of T-cell tolerance. <i>Autoimmunity</i> , 2011, 44, 23-32.	2.6	28
69	The Family of LPS Signal Transducers Increases: the Arrival of Chanzymes. <i>Immunity</i> , 2018, 48, 4-6.	14.3	28
70	Rabbit monoclonal Fab derived from a phage display library. <i>Journal of Immunological Methods</i> , 1998, 213, 201-212.	1.4	27
71	Murein Lytic Enzyme TgaA of <i>Bifidobacterium bifidum</i> MIMBb75 Modulates Dendritic Cell Maturation through Its Cysteine- and Histidine-Dependent Amidohydrolase/Peptidase (CHAP) Amidase Domain. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5170-5177.	3.1	27
72	A role for CCR5+CD4 T cells in cutaneous psoriasis and for CD103+ CCR4+ CD8 T _H 17 cells in the associated systemic inflammation. <i>Journal of Autoimmunity</i> , 2016, 70, 80-90.	6.5	27

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73	Cloned microglial cells but not macrophages synthesize β -endorphin in response to CRH activation. <i>Glia</i> , 1993, 9, 305-310.	4.9	26
74	Gene Expression Profiling in Immune Cells Using Microarray. <i>International Archives of Allergy and Immunology</i> , 2001, 126, 257-266.	2.1	26
75	Blood to skin recirculation of CD4 + memory T cells associates with cutaneous and systemic manifestations of psoriatic disease. <i>Clinical Immunology</i> , 2017, 180, 84-94.	3.2	26
76	CCR4+ Skin-Tropic Phenotype as a Feature of Central Memory CD8+ T Cells in Healthy Subjects and Psoriasis Patients. <i>Frontiers in Immunology</i> , 2020, 11, 529.	4.8	26
77	Synthesis and biological evaluation of novel lipid A antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 190-199.	3.0	24
78	Induction of Peripheral T Cell Tolerance by Antigen-Presenting B Cells. I. Relevance of Antigen Presentation Persistence. <i>Journal of Immunology</i> , 2006, 176, 4012-4020.	0.8	24
79	The Immune Response Is Initiated by Dendritic Cells via Interaction with Microorganisms and Interleukin-2 Production. <i>Journal of Infectious Diseases</i> , 2003, 187, S346-S350.	4.0	23
80	Self-tolerance, dendritic cell (DC)-mediated activation and tissue distribution of natural killer (NK) cells. <i>Immunology Letters</i> , 2007, 110, 6-17.	2.5	23
81	DC-ATLAS: a systems biology resource to dissect receptor specific signal transduction in dendritic cells. <i>Immunome Research</i> , 2010, 6, 10.	0.1	23
82	Skin infections are eliminated by cooperation of the fibrinolytic and innate immune systems. <i>Science Immunology</i> , 2017, 2, .	11.9	22
83	Maturation signatures of conventional dendritic cell subtypes in COVID-19 suggest direct viral sensing. <i>European Journal of Immunology</i> , 2022, 52, 109-122.	2.9	22
84	The Timing of IFN γ Production Affects Early Innate Responses to <i>Listeria monocytogenes</i> and Determines the Overall Outcome of Lethal Infection. <i>PLoS ONE</i> , 2012, 7, e43455.	2.5	22
85	Image filtering for two-photon deep imaging of lymphonodes. <i>European Biophysics Journal</i> , 2008, 37, 979-987.	2.2	20
86	Cream Formulation Impact on Topical Administration of Engineered Colloidal Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0126366.	2.5	20
87	The Regulatory Role of Dendritic Cells in the Immune Response. <i>International Archives of Allergy and Immunology</i> , 2004, 134, 179-185.	2.1	19
88	Synthesis and Biological Activity of Akt/PI3K Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 1127-1136.	2.4	17
89	Dendritic Cells in the Cross Hair for the Generation of Tailored Vaccines. <i>Frontiers in Immunology</i> , 2018, 9, 1484.	4.8	17
90	Dendritic Cells as Natural Adjuvants. <i>Methods</i> , 1999, 19, 142-147.	3.8	16

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91	Whole-Section Tumor Micro-Architecture Analysis by a Two-Dimensional Phasor-Based Approach Applied to Polarization-Dependent Second Harmonic Imaging. <i>Frontiers in Oncology</i> , 2019, 9, 527.	2.8	16
92	How dendritic cells sense and respond to viral infections. <i>Clinical Science</i> , 2021, 135, 2217-2242.	4.3	16
93	Cellular and molecular mechanisms of antifungal innate immunity at epithelial barriers: The role of Cé type lectin receptors. <i>European Journal of Immunology</i> , 2020, 50, 317-325.	2.9	15
94	Inositol 1,4,5-trisphosphate 3-kinase B promotes Ca ²⁺ mobilization and the inflammatory activity of dendritic cells. <i>Science Signaling</i> , 2021, 14, .	3.6	15
95	Migratory conventional dendritic cells in the induction of peripheral T cell tolerance. <i>Journal of Leukocyte Biology</i> , 2013, 94, 903-911.	3.3	13
96	To the Editor. <i>European Journal of Immunology</i> , 2006, 36, 2819-2820.	2.9	12
97	Preparation of Single-cell Suspensions for Cytofluorimetric Analysis from Different Mouse Skin Regions. <i>Journal of Visualized Experiments</i> , 2016, , e52589.	0.3	12
98	Effect of chemical modulation of toll-like receptor 4 in an animal model of ulcerative colitis. <i>European Journal of Clinical Pharmacology</i> , 2020, 76, 409-418.	1.9	12
99	Role of Toll like receptor-activated dendritic cells in the development of autoimmunity. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 4817.	3.0	11
100	Inhibition of transcription factor NFAT activity in activated platelets enhances their aggregation and exacerbates gram-negative bacterial septicemia. <i>Immunity</i> , 2022, 55, 224-236.e5.	14.3	11
101	Dendritic Cells and Macrophages: Same Receptors but Different Functions. <i>Current Immunology Reviews</i> , 2009, 5, 311-325.	1.2	10
102	rBet v 1 immunotherapy of sensitized mice with <i>Streptococcus thermophilus</i> as vehicle and adjuvant. <i>Human Vaccines and Immunotherapeutics</i> , 2014, 10, 1228-1237.	3.3	10
103	EFIS-EJI Ita Askonas Award. <i>European Journal of Immunology</i> , 2012, 42, 2824-2826.	2.9	9
104	Multiphoton Fabrication of Proteinaceous Nanocomposite Microstructures with Photothermal Activity in the Infrared. <i>Advanced Optical Materials</i> , 2020, 8, 2000584.	7.3	9
105	Generation of Murine Growth Factor-Dependent Long-Term Dendritic Cell Lines to Investigate Host-Parasite Interactions. <i>Methods in Molecular Biology</i> , 2009, 531, 17-27.	0.9	9
106	Are nanotechnological approaches the future of treating inflammatory diseases?. <i>Nanomedicine</i> , 2019, 14, 2379-2390.	3.3	8
107	Straightforward synthesis of novel Akt inhibitors based on a glucose scaffold. <i>Carbohydrate Research</i> , 2010, 345, 1291-1298.	2.3	7
108	Editorial. <i>Molecular Immunology</i> , 2015, 63, 125-126.	2.2	7

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109	Systemically administered DNA and fowlpox recombinants expressing four vaccinia virus genes although immunogenic do not protect mice against the highly pathogenic IHD-J vaccinia strain. <i>Virus Research</i> , 2013, 178, 374-382.	2.2	6
110	Nanoparticles: "magic bullets" for targeting the immune system. <i>Seminars in Immunology</i> , 2017, 34, 1-2.	5.6	6
111	Gene Expression Profiling of Dendritic Cells by Microarray. <i>Methods in Molecular Biology</i> , 2007, 380, 215-224.	0.9	6
112	The Nature of Activatory and Tolerogenic Dendritic Cell-Derived Signal 2. <i>Frontiers in Immunology</i> , 2014, 5, 42.	4.8	5
113	Transcriptional reprogramming of dendritic cells by differentiation stimuli. <i>European Journal of Immunology</i> , 2001, 31, 2539.	2.9	5
114	Generation of mouse bone marrow-derived dendritic cells (BM-DCs). <i>Protocol Exchange</i> , 0, , .	0.3	5
115	Accumulative Difference Image Protocol for Particle Tracking in Fluorescence Microscopy Tested in Mouse Lymphonodes. <i>PLoS ONE</i> , 2010, 5, e12216.	2.5	5
116	Autoreactive isotype-specific T cells determine B cell frequency. <i>European Journal of Immunology</i> , 2001, 31, 215-224.	2.9	4
117	Deep Dermal Injection As a Model of <i>Candida albicans</i> Skin Infection for Histological Analyses. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
118	Melanin concentration maps by label-free super-resolution photo-thermal imaging on melanoma biopsies. <i>Biomedical Optics Express</i> , 2022, 13, 1173.	2.9	4
119	The Nature of Activatory and Tolerogenic Dendritic Cell-Derived Signal 2. <i>Frontiers in Immunology</i> , 2013, 4, 198.	4.8	3
120	Quantitative active super-resolution thermal imaging: The melanoma case study. <i>Biomolecular Concepts</i> , 2022, 13, 242-255.	2.2	3
121	Generation of mouse bone marrow-derived macrophages (BM-MFs). <i>Protocol Exchange</i> , 0, , .	0.3	2
122	Generation of Mouse Dendritic Cell Lines. , 2001, 64, 219-230.		1
123	UniVax Day 2018 "Outreach to high school students to improve vaccination rates. <i>European Journal of Immunology</i> , 2018, 48, 1266-1268.	2.9	1
124	Transcriptional Profiling of Dendritic Cells in Response to Pathogens. , 2006, , 461-486.		0
125	Two photon microscopy intravital study of DC-mediated anti-tumor response of NK cells. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
126	Modeling Leukocyte-Leukocyte Non-Contact Interactions in a Lymph Node. <i>PLoS ONE</i> , 2013, 8, e76756.	2.5	0

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127	CD14-dependent and TLR4-independent Ca ²⁺ /calcineurin pathway activation by LPS in dendritic cells leading to efficient COX ₂ production. FASEB Journal, 2008, 22, 672.11.	0.5	0
128	Real-time calcium transient measurement in mouse dendritic cells stimulated with LPS or ATP. Protocol Exchange, 0, , .	0.3	0
129	Drosophila Schneider 2 (S2) cell culture. Protocol Exchange, 0, , .	0.3	0