Claudia Cantoni

List of Publications by Citations

99 papers	10,894 citations	50 h-index	100 g-index
100 ext. papers	11,999 ext. citations	7.5 avg, IF	5.37 L-index

#	Paper	IF	Citations
99	Activating receptors and coreceptors involved in human natural killer cell-mediated cytolysis. *Annual Review of Immunology*, **2001**, 19, 197-223	34.7	1446
98	Identification of PVR (CD155) and Nectin-2 (CD112) as cell surface ligands for the human DNAM-1 (CD226) activating molecule. *Journal of Experimental Medicine*, **2003**, 198, 557-67	16.6	658
97	Molecular clones of the p58 NK cell receptor reveal immunoglobulin-related molecules with diversity in both the extra- and intracellular domains. *Immunity*, **1995**, 2, 439-49	32.3	525
96	Transforming growth factor beta 1 inhibits expression of NKp30 and NKG2D receptors: consequences for the NK-mediated killing of dendritic cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4120-5	11.5	496
95	NKp44, a triggering receptor involved in tumor cell lysis by activated human natural killer cells, is a novel member of the immunoglobulin superfamily. *Journal of Experimental Medicine*, **1999**, 189, 787-96	16.6	369
94	Inhibitory receptors sensing HLA-G1 molecules in pregnancy: decidua-associated natural killer cells express LIR-1 and CD94/NKG2A and acquire p49, an HLA-G1-specific receptor. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 5674-9	11.5	316
93	The natural killer cell receptor specific for HLA-A allotypes: a novel member of the p58/p70 family of inhibitory receptors that is characterized by three immunoglobulin-like domains and is expressed as a 140-kD disulphide-linked dimer. *Journal of Experimental Medicine*, **1996**, 184, 505-18	16.6	313
92	The human leukocyte antigen (HLA)-C-specific "activatory" or "inhibitory" natural killer cell receptors display highly homologous extracellular domains but differ in their transmembrane and intracytoplasmic portions. *Journal of Experimental Medicine*, **1996**, 183, 645-50	16.6	299
91	Role of NKG2D in tumor cell lysis mediated by human NK cells: cooperation with natural cytotoxicity receptors and capability of recognizing tumors of nonepithelial origin. *European Journal of Immunology*, **2001**, 31, 1076-1086	6.1	273
90	The tryptophan catabolite L-kynurenine inhibits the surface expression of NKp46- and NKG2D-activating receptors and regulates NK-cell function. *Blood*, **2006**, 108, 4118-25	2.2	266
89	Revisiting human natural killer cell subset function revealed cytolytic CD56(dim)CD16+ NK cells as rapid producers of abundant IFN-gamma on activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 728-32	11.5	258
88	Human natural killer cell receptors and co-receptors. *Immunological Reviews*, **2001**, 181, 203-14	11.3	245
87	Effect of tumor cells and tumor microenvironment on NK-cell function. *European Journal of Immunology*, **2014**, 44, 1582-92	6.1	237
86	The CD94 and NKG2-A C-type lectins covalently assemble to form a natural killer cell inhibitory receptor for HLA class I molecules. *European Journal of Immunology*, **1997**, 27, 563-7	6.1	228
85	Melanoma cells inhibit natural killer cell function by modulating the expression of activating receptors and cytolytic activity. *Cancer Research*, **2012**, 72, 1407-15	10.1	222
84	Identification of 4Ig-B7-H3 as a neuroblastoma-associated molecule that exerts a protective role from an NK cell-mediated lysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 12640-5	11.5	208
83	DNAM-1 and PVR regulate monocyte migration through endothelial junctions. *Journal of Experimental Medicine*, **2004**, 199, 1331-41	16.6	207

82	Melanoma-associated fibroblasts modulate NK cell phenotype and antitumor cytotoxicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20847-52	11.5	202
81	Role of amino acid position 70 in the binding affinity of p50.1 and p58.1 receptors for HLA-Cw4 molecules. *European Journal of Immunology*, **1997**, 27, 3095-9	6.1	187
80	Crosstalk between decidual NK and CD14+ myelomonocytic cells results in induction of Tregs and immunosuppression. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 11918-23	11.5	171
79	NKp46 and NKG2D recognition of infected dendritic cells is necessary for NK cell activation in the human response to influenza infection. *Journal of Immunology*, **2007**, 178, 2688-98	5.3	165
78	IL-21 induces both rapid maturation of human CD34+ cell precursors towards NK cells and acquisition of surface killer Ig-like receptors. *European Journal of Immunology*, **2003**, 33, 3439-47	6.1	151
77	NCR(+)ILC3 concentrate in human lung cancer and associate with intratumoral lymphoid structures. *Nature Communications*, **2015**, 6, 8280	17.4	147
76	CD34+ hematopoietic precursors are present in human decidua and differentiate into natural killer cells upon interaction with stromal cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2402-7	11.5	145
75	Interleukin-15-induced maturation of human natural killer cells from early thymic precursors: selective expression of CD94/NKG2-A as the only HLA class I-specific inhibitory receptor. *European Journal of Immunology*, **1997**, 27, 1374-80	6.1	140
74	p49, a putative HLA class I-specific inhibitory NK receptor belonging to the immunoglobulin superfamily. *European Journal of Immunology*, **1998**, 28, 1980-90	6.1	134
73	Molecular and functional characterization of IRp60, a member of the immunoglobulin superfamily that functions as an inhibitory receptor in human NK cells. *European Journal of Immunology*, **1999**, 29, 3148-59	6.1	128
72	Killer Ig-Like Receptors (KIRs): Their Role in NK Cell Modulation and Developments Leading to Their Clinical Exploitation. *Frontiers in Immunology*, **2019**, 10, 1179	8.4	127
71	A novel surface molecule homologous to the p58/p50 family of receptors is selectively expressed on a subset of human natural killer cells and induces both triggering of cell functions and proliferation. *European Journal of Immunology*, **1996**, 26, 1816-24	6.1	116
70	PVR (CD155) and Nectin-2 (CD112) as ligands of the human DNAM-1 (CD226) activating receptor: involvement in tumor cell lysis. *Molecular Immunology*, **2005**, 42, 463-9	4.3	108
69	CD4(+) cutaneous T-cell lymphoma cells express the p140-killer cell immunoglobulin-like receptor. *Blood*, **2001**, 97, 1388-91	2.2	97
68	Expression of HLA class I-specific inhibitory natural killer cell receptors in HIV-specific cytolytic T lymphocytes: impairment of specific cytolytic functions. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 10285-8	11.5	95
67	Human natural killer cell receptors: insights into their molecular function and structure. *Journal of Cellular and Molecular Medicine*, **2003**, 7, 376-87	5.6	93
66	B7-H6-mediated downregulation of NKp30 in NK cells contributes to ovarian carcinoma immune escape. *OncoImmunology*, **2015**, 4, e1001224	7.2	92
65	The activating form of CD94 receptor complex: CD94 covalently associates with the Kp39 protein that represents the product of the NKG2-C gene. *European Journal of Immunology*, **1998**, 28, 327-38	6.1	92

64	Regulatory role of NKp44, NKp46, DNAM-1 and NKG2D receptors in the interaction between NK cells and trophoblast cells. Evidence for divergent functional profiles of decidual versus peripheral NK cells. *International Immunology*, **2008**, 20, 1395-405	4.9	84
63	The three-dimensional structure of the human NK cell receptor NKp44, a triggering partner in natural cytotoxicity. *Structure*, **2003**, 11, 725-34	5.2	84
62	DNase I mediates internucleosomal DNA degradation in human cells undergoing drug-induced apoptosis. *European Journal of Immunology*, **2001**, 31, 743-51	6.1	81
61	Human NK Cells induce neutrophil apoptosis via an NKp46- and Fas-dependent mechanism. *Journal of Immunology*, **2012**, 188, 1668-74	5.3	77
60	The corticosteroid-induced inhibitory effect on NK cell function reflects down-regulation and/or dysfunction of triggering receptors involved in natural cytotoxicity. *European Journal of Immunology*, **2004**, 34, 3028-38	6.1	70
59	Selective cross-talk among natural cytotoxicity receptors in human natural killer cells. *European Journal of Immunology*, **2003**, 33, 1235-41	6.1	70
58	Human natural killer cell function and receptors. *Current Opinion in Pharmacology*, **2001**, 1, 387-91	5.1	69
57	Uptake of CCR7 and acquisition of migratory properties by human KIR+ NK cells interacting with monocyte-derived DC or EBV cell lines: regulation by KIR/HLA-class I interaction. *Blood*, **2009**, 114, 4108-16	2.2	68
56	HLA-class I-specific inhibitory receptors in human cytolytic T lymphocytes: molecular characterization, distribution in lymphoid tissues and co-expression by individual T cells. *International Immunology*, **1997**, 9, 485-91	4.9	65
55	M-CSF induces the expression of a membrane-bound form of IL-18 in a subset of human monocytes differentiating in vitro toward macrophages. *European Journal of Immunology*, **2012**, 42, 1618-26	6.1	64
54	Human NK cells and their receptors. *Microbes and Infection*, **2002**, 4, 1539-44	9.3	58
53	Identification, molecular cloning and functional characterization of NKp46 and NKp30 natural cytotoxicity receptors in Macaca fascicularis NK cells. *European Journal of Immunology*, **2001**, 31, 3546-56	6.1	56
52	Expression and function of the insulin-like growth factor I system in human non-small-cell lung cancer and normal lung cell lines. *International Journal of Cancer*, **1994**, 56, 858-66	7.5	55
51	The immune inhibitory receptor LAIR-1 is highly expressed by plasmacytoid dendritic cells and acts complementary with NKp44 to control IFN□production. *PLoS ONE*, **2010**, 5, e15080	3.7	54
50	NK Cells, Tumor Cell Transition, and Tumor Progression in Solid Malignancies: New Hints for NK-Based Immunotherapy?. *Journal of Immunology Research*, **2016**, 2016, 4684268	4.5	53
49	Human CAR NK Cells: A New Non-viral Method Allowing High Efficient Transfection and Strong Tumor Cell Killing. *Frontiers in Immunology*, **2019**, 10, 957	8.4	50
48	Expression of human NKRP1A by CD34+ immature thymocytes: NKRP1A-mediated regulation of proliferation and cytolytic activity. *European Journal of Immunology*, **1996**, 26, 1266-72	6.1	49
47	Identification of the rat homologue of the human NKp46 triggering receptor. *Immunology Letters*, **1999**, 68, 411-4	4.1	44

46	Modulation of CD112 by the alphaherpesvirus gD protein suppresses DNAM-1-dependent NK cell-mediated lysis of infected cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16118-23	11.5	43
45	NK cells provide helper signal for CD8+ T cells by inducing the expression of membrane-bound IL-15 on DCs. *International Immunology*, **2009**, 21, 599-606	4.9	41
44	Nidogen-1 is a novel extracellular ligand for the NKp44 activating receptor. *OncoImmunology*, **2018**, 7, e1470730	7.2	40
43	An Historical Overview: The Discovery of How NK Cells Can Kill Enemies, Recruit Defense Troops, and More. *Frontiers in Immunology*, **2019**, 10, 1415	8.4	37
42	NK-cell Editing Mediates Epithelial-to-Mesenchymal Transition via Phenotypic and Proteomic Changes in Melanoma Cell Lines. *Cancer Research*, **2018**, 78, 3913-3925	10.1	37
41	Molecular and functional characterization of NKG2D, NKp80, and NKG2C triggering NK cell receptors in rhesus and cynomolgus macaques: monitoring of NK cell function during simian HIV infection. *Journal of Immunology*, **2005**, 174, 5695-705	5.3	37
40	Human natural killer cell activating receptors. *Molecular Immunology*, **2000**, 37, 1015-24	4.3	34
39	Human natural killer cells: news in the therapy of solid tumors and high-risk leukemias. *Cancer Immunology, Immunotherapy*, **2016**, 65, 465-76	7.4	33
38	NKp44-NKp44 Ligand Interactions in the Regulation of Natural Killer Cells and Other Innate Lymphoid Cells in Humans. *Frontiers in Immunology*, **2019**, 10, 719	8.4	29
37	Structure of the human NK cell triggering receptor NKp46 ectodomain. *Biochemical and Biophysical Research Communications*, **2003**, 309, 317-23	3.4	29
36	Reciprocal expression of CD70 and of its receptor, CD27, in human long term-activated T and natural killer (NK) cells: inverse regulation by cytokines and role in induction of cytotoxicity. *Clinical and Experimental Immunology*, **1997**, 107, 608-13	6.2	29
35	Natural Killer (NK)/melanoma cell interaction induces NK-mediated release of chemotactic High Mobility Group Box-1 (HMGB1) capable of amplifying NK cell recruitment. *OncoImmunology*, **2015**, 4, e1052353	7.2	27
34	Bispecific monoclonal antibodies directed to CD16 and to a tumor-associated antigen induce target-cell lysis by resting NK cells and by a subset of NK clones. *International Journal of Cancer*, **1991**, 48, 227-33	7.5	27
33	Functional characterization of natural killer cells in type I leukocyte adhesion deficiency. *Blood*, **2007**, 109, 4873-81	2.2	26
32	Cultured human NK cells express the Ki-1/CD30 antigen. *British Journal of Haematology*, **1993**, 85, 270-6	4.5	22
31	The Innate Immune Cross Talk between NK Cells and Eosinophils Is Regulated by the Interaction of Natural Cytotoxicity Receptors with Eosinophil Surface Ligands. *Frontiers in Immunology*, **2017**, 8, 510	8.4	21
30	Direct involvement of CD56 in cytokine-induced killer-mediated lysis of CD56+ hematopoietic target cells. *Experimental Hematology*, **2014**, 42, 1013-21.e1	3.1	20
29	P49, a putative HLA-G1 specific inhibitory NK receptor belonging to the immunoglobulin Superfamily. *Journal of Reproductive Immunology*, **1999**, 43, 157-65	4.2	20

28	Symptomatic Carotid Atherosclerotic Plaques Are Associated With Increased Infiltration of Natural Killer (NK) Cells and Higher Serum Levels of NK Activating Receptor Ligands. *Frontiers in Immunology*, **2019**, 10, 1503	8.4	18
27	Characterization of human afferent lymph dendritic cells from seroma fluids. *Journal of Immunology*, **2013**, 191, 4858-66	5.3	18
26	Human natural killer receptors and their ligands. *Current Protocols in Immunology*, **2002**, Chapter 14, Unit 14.10	4	18
25	Pseudorabies Virus US3 Protein Kinase Protects Infected Cells from NK Cell-Mediated Lysis via Increased Binding of the Inhibitory NK Cell Receptor CD300a. *Journal of Virology*, **2016**, 90, 1522-33	6.6	17
24	Role of the calpain-calpastatin system in the density-dependent growth arrest. *Archives of Biochemistry and Biophysics*, **2008**, 479, 145-52	4.1	17
23	Role of NK cells in immunotherapy and virotherapy of solid tumors. *Immunotherapy*, **2015**, 7, 861-82	3.8	16
22	Emergency exit of bone-marrow-resident CD34(+)DNAM-1(bright)CXCR4(+)-committed lymphoid precursors during chronic infection and inflammation. *Nature Communications*, **2015**, 6, 8109	17.4	16
21	Involvement of exon 6-mediated calpastatin intracellular movements in the modulation of calpain activation. *Biochimica Et Biophysica Acta - General Subjects*, **2009**, 1790, 182-7	4	16
20	NK cells and multiple myeloma-associated endothelial cells: molecular interactions and influence of IL-27. *Oncotarget*, **2017**, 8, 35088-35102	3.3	13
19	Characterization of the calpain/calpastatin system in human hemopoietic cell lines. *Archives of Biochemistry and Biophysics*, **2006**, 456, 48-57	4.1	12
18	A novel type of GABA receptor in rat spinal cord?. *Naunyn-Schmiedebergs Archives of Pharmacology*, **1989**, 340, 666-70	3.4	12
17	Structural Insights into the Inhibitory Mechanism of an Antibody against B7-H6, a Stress-Induced Cellular Ligand for the Natural Killer Cell Receptor NKp30. *Journal of Molecular Biology*, **2016**, 428, 4457-4466	6.5	9
16	Myeloma cells induce the accumulation of activated CD94low NK cells by cell-to-cell contacts involving CD56 molecules. *Blood Advances*, **2020**, 4, 2297-2307	7.8	9
15	Crystallization and preliminary crystallographic characterization of the extracellular Ig-like domain of human natural killer cell activating receptor NKp44. *Acta Crystallographica Section D: Biological Crystallography*, **2002**, 58, 1843-5		6
14	Expression and crystallographic characterization of the extracellular domain of human natural killer cell triggering receptor NKp46. *Acta Crystallographica Section D: Biological Crystallography*, **2003**, 59, 2259-61		6
13	A novel surface molecule expressed by long-term cultured T and natural killer cells is involved in cell activation. *European Journal of Immunology*, **1991**, 21, 1981-7	6.1	6
12	Expression of the Pseudorabies Virus gB Glycoprotein Triggers NK Cell Cytotoxicity and Increases Binding of the Activating NK Cell Receptor PILR. *Journal of Virology*, **2019**, 93,	6.6	5
11	Escape of tumor cells from the NK cell cytotoxic activity. *Journal of Leukocyte Biology*, **2020**, 108, 1339-1350	3.9	4

10	Physical and functional association of CD45 and CD3-TCR complex on CD1+ human thymocytes. Evidence that the engagement of CD45 molecules can prevent CD1+ thymocytes from apoptosis. *International Immunology*, **1996**, 8, 1947-53	4.9	3
9	Phenotypic, functional and molecular analysis of CD3- LGL expansions indicates a relationship to two different CD3- normal counterparts. *British Journal of Haematology*, **1994**, 86, 740-5	4.5	3
8	PKCInhibition as a Strategy to Sensitize Neuroblastoma Stem Cells to Etoposide by Stimulating Ferroptosis. *Antioxidants*, **2021**, 10,	7.1	3
7	Molecular Structures of HLA-Specific Human NK Cell Receptors. *Chemical Immunology and Allergy*, **1996**, 64, 88-103		2
6	Molecular Structures of HLA-Specific Human NK Cell Receptors. *Chemical Immunology and Allergy*, **1996**, 64, 88-103		2
5	Stromal-like Wilms tumor cells induce human Natural Killer cell degranulation and display immunomodulatory properties towards NK cells. *OncoImmunology*, **2021**, 10, 1879530	7.2	2
4	HLA class-I-specific NK receptors belong to two distinct molecular families and display inhibitory or activating function. *Research in Immunology*, **1997**, 148, 146-50		1
3	Recent Advances in the Role of Natural Killer Cells in Acute Kidney Injury. *Frontiers in Immunology*, **2020**, 11, 1484	8.4	1
2	Characterization of a cyclosporin A-sensitive activation pathway in cultured T and natural killer cells. *Scandinavian Journal of Immunology*, **1994**, 39, 373-9	3.4	
1	Induction of anti-tumor immune response by bispecific monoclonal antibodies (bimAbs). *Pharmacological Research*, **1992**, 26 Suppl 2, 146-7	10.2	