

# Arnaud Marchant

## List of Publications by Year in descending order

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110  
papers

7,431  
citations

47006

47  
h-index

58581

82  
g-index

119  
all docs

119  
docs citations

119  
times ranked

9637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunological mechanisms of vaccine-induced protection against COVID-19 in humans. <i>Nature Reviews Immunology</i> , 2021, 21, 475-484.	22.7	434
2	Interleukin-10 inhibits B7 and intercellular adhesion molecule-1 expression on human monocytes. <i>European Journal of Immunology</i> , 1994, 24, 1007-1009.	2.9	361
3	Protecting the Newborn and Young Infant from Infectious Diseases: Lessons from Immune Ontogeny. <i>Immunity</i> , 2017, 46, 350-363.	14.3	326
4	Interleukin-10 controls interferon- $\gamma$ and tumor necrosis factor production during experimental endotoxemia. <i>European Journal of Immunology</i> , 1994, 24, 1167-1171.	2.9	295
5	Influence of <i>Mycobacterium bovis</i> Bacillus Calmette-Guérin on Antibody and Cytokine Responses to Human Neonatal Vaccination. <i>Journal of Immunology</i> , 2002, 168, 919-925.	0.8	273
6	Mature CD8+ T lymphocyte response to viral infection during fetal life. <i>Journal of Clinical Investigation</i> , 2003, 111, 1747-1755.	8.2	206
7	Neonatal bacillus Calmette-Guérin vaccination induces adult-like IFN- $\gamma$ production by CD4+ T lymphocytes. <i>European Journal of Immunology</i> , 2001, 31, 1531-1535.	2.9	187
8	Effector $V\alpha 2$ T cells dominate the human fetal $V\beta 17$ T-cell repertoire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E556-65.	7.1	183
9	Human cytomegalovirus elicits fetal $V\beta 17$ T cell responses in utero. <i>Journal of Experimental Medicine</i> , 2010, 207, 807-821.	8.5	176
10	Human cytokine responses to cardiac transplantation and coronary artery bypass grafting. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996, 111, 469-477.	0.8	167
11	T cell-mediated immune responses in human newborns: ready to learn?. <i>Clinical and Experimental Immunology</i> , 2005, 141, 10-18.	2.6	167
12	Fc Glycan-Mediated Regulation of Placental Antibody Transfer. <i>Cell</i> , 2019, 178, 202-215.e14.	28.9	157
13	Uninfected but not unaffected: chronic maternal infections during pregnancy, fetal immunity, and susceptibility to postnatal infections. <i>Lancet Infectious Diseases</i> , The, 2012, 12, 330-340.	9.1	144
14	Maternal immunisation: collaborating with mother nature. <i>Lancet Infectious Diseases</i> , The, 2017, 17, e197-e208.	9.1	133
15	Role of defective monocyte interleukin-10 release in tumor necrosis factor-alpha overproduction in alcoholic cirrhosis. <i>Hepatology</i> , 1995, 22, 1436-1439.	7.3	119
16	Cytomegalovirus Infection in Gambian Infants Leads to Profound CD8 T-Cell Differentiation. <i>Journal of Virology</i> , 2007, 81, 5766-5776.	3.4	113
17	Different Adjuvants Induce Common Innate Pathways That Are Associated with Enhanced Adaptive Responses against a Model Antigen in Humans. <i>Frontiers in Immunology</i> , 2017, 8, 943.	4.8	111
18	Transfer of maternal immunity and programming of the newborn immune system. <i>Seminars in Immunopathology</i> , 2017, 39, 605-613.	6.1	110

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19	Improving Vaccine-Induced Immunity: Can Baseline Predict Outcome?. Trends in Immunology, 2020, 41, 457-465.	6.8	107
20	Blood interleukin 10 levels parallel the severity of septic shock. Journal of Critical Care, 1997, 12, 183-187.	2.2	106
21	Hepatitis B immunisation induces higher antibody and memory Th2 responses in new-borns than in adults. Vaccine, 2004, 22, 511-519.	3.8	100
22	T helper type 2-like cells and therapeutic effects of interferon- $\gamma$ in combined immunodeficiency with hypereosinophilia (Omenn's syndrome). European Journal of Immunology, 1993, 23, 56-60.	2.9	99
23	High Incidence of Invasive Group B Streptococcal Infections in HIV-Exposed Uninfected Infants. Pediatrics, 2010, 126, e631-e638.	2.1	96
24	Tuberculosis Contacts but Not Patients Have Higher Gamma Interferon Responses to ESAT-6 than Do Community Controls in The Gambia. Infection and Immunity, 2001, 69, 6554-6557.	2.2	93
25	Interferon regulatory factor- $\gamma$ -mediated responses are defective in cord blood plasmacytoid dendritic cells. European Journal of Immunology, 2008, 38, 507-517.	2.9	91
26	Lipopolysaccharide induces up-regulation of CD14 molecule on monocytes in human whole blood. European Journal of Immunology, 1992, 22, 1663-1665.	2.9	90
27	Impact of adjuvants on CD4+ T cell and B cell responses to a protein antigen vaccine: Results from a phase II, randomized, multicenter trial. Clinical Immunology, 2016, 169, 16-27.	3.2	90
28	The Immune System of HIV-Exposed Uninfected Infants. Frontiers in Immunology, 2016, 7, 383.	4.8	85
29	Delaying Bacillus Calmette-Guérin Vaccination from Birth to 4 1/2 Months of Age Reduces Postvaccination Th1 and IL-17 Responses but Leads to Comparable Mycobacterial Responses at 9 Months of Age. Journal of Immunology, 2010, 185, 2620-2628.	0.8	84
30	Breastmilk cell trafficking induces microchimerism-mediated immune system maturation in the infant. Pediatric Allergy and Immunology, 2018, 29, 133-143.	2.6	84
31	Virological and Immunological Correlates of Mother-to-Child Transmission of Cytomegalovirus in The Gambia. Journal of Infectious Diseases, 2008, 197, 1307-1314.	4.0	77
32	Effects of ultrapure and non-sterile dialysate on the inflammatory response during in vitro hemodialysis. Kidney International, 1996, 49, 236-243.	5.2	69
33	Risk Factors for and Clinical Outcome of Congenital Cytomegalovirus Infection in a Peri-Urban West-African Birth Cohort. PLoS ONE, 2007, 2, e492.	2.5	67
34	Linking Susceptibility to Infectious Diseases to Immune System Abnormalities among HIV-Exposed Uninfected Infants. Frontiers in Immunology, 2016, 7, 310.	4.8	64
35	Antigen-Specific Central Memory CD4+ T Lymphocytes Produce Multiple Cytokines and Proliferate In Vivo in Humans. Journal of Immunology, 2006, 177, 8185-8190.	0.8	63
36	Functional Exhaustion of CD4+ T Lymphocytes during Primary Cytomegalovirus Infection. Journal of Immunology, 2012, 189, 2665-2672.	0.8	62

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37	Initiation of Antiretroviral Therapy Before Pregnancy Reduces the Risk of Infection-related Hospitalization in Human Immunodeficiency Virus-exposed Uninfected Infants Born in a High-income Country. <i>Clinical Infectious Diseases</i> , 2019, 68, 1193-1203.	5.8	60
38	Vaccination strategies to enhance immunity in neonates. <i>Science</i> , 2020, 368, 612-615.	12.6	59
39	Polarization of PPD-Specific T-Cell Response of Patients with Tuberculosis from Th0 to Th1 Profile after Successful Antimycobacterial Therapy or In Vitro Conditioning with Interferon- $\gamma$ or Interleukin-12. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 24, 187-194.	2.9	58
40	Robust innate responses to SARS-CoV-2 in children resolve faster than in adults without compromising adaptive immunity. <i>Cell Reports</i> , 2021, 37, 109773.	6.4	58
41	Transfer of Maternal Antimicrobial Immunity to HIV-Exposed Uninfected Newborns. <i>Frontiers in Immunology</i> , 2016, 7, 338.	4.8	57
42	The transcription factors Runx3 and ThPOK cross-regulate acquisition of cytotoxic function by human Th1 lymphocytes. <i>ELife</i> , 2018, 7, .	6.0	57
43	Differential Impact of Age and Cytomegalovirus Infection on the $\gamma\delta$ T Cell Compartment. <i>Journal of Immunology</i> , 2013, 191, 1300-1306.	0.8	56
44	Interleukin-10 Inhibits Lipopolysaccharide-Induced Tumor Necrosis Factor and Interleukin-1 $\beta$ Production in the Brain without Affecting the Activation of the Hypothalamus-Pituitary-Adrenal Axis. <i>NeuroImmunoModulation</i> , 1995, 2, 149-154.	1.8	53
45	IL-12 and type I IFN response of neonatal myeloid DC to human CMV infection. <i>European Journal of Immunology</i> , 2009, 39, 2789-2799.	2.9	53
46	The kinetics and phenotype of the human B-cell response following immunization with a heptavalent pneumococcal-CRM197 conjugate vaccine. <i>Immunology</i> , 2006, 119, 328-337.	4.4	52
47	Coordinated expansion of both memory T cells and NK cells in response to CMV infection in humans. <i>European Journal of Immunology</i> , 2016, 46, 1168-1179.	2.9	52
48	Pattern recognition receptor-mediated cytokine response in infants across 4 continents. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 818-826.e4.	2.9	48
49	Severe Infections in HIV-Exposed Uninfected Infants Born in a European Country. <i>PLoS ONE</i> , 2015, 10, e0135375.	2.5	48
50	Functional Exhaustion Limits CD4 <sup>+</sup> and CD8 <sup>+</sup> T-Cell Responses to Congenital Cytomegalovirus Infection. <i>Journal of Infectious Diseases</i> , 2015, 212, 484-494.	4.0	48
51	Immune Responses to Mycobacterial Antigens in the Gambian Population: Implications for Vaccines and Immunodiagnostic Test Design. <i>Infection and Immunity</i> , 2004, 72, 381-388.	2.2	47
52	Immunity to Cytomegalovirus in Early Life. <i>Frontiers in Immunology</i> , 2014, 5, 552.	4.8	47
53	Efficient priming of antigen-specific cytotoxic T lymphocytes by human cord blood dendritic cells. <i>International Immunology</i> , 2003, 15, 1265-1273.	4.0	42
54	Predominant Influence of Environmental Determinants on the Persistence and Avidity Maturation of Antibody Responses to Vaccines in Infants. <i>Journal of Infectious Diseases</i> , 2006, 193, 1598-1605.	4.0	42

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55	Inflammatory parameters associated with systemic reactogenicity following vaccination with adjuvanted hepatitis B vaccines in humans. <i>Vaccine</i> , 2019, 37, 2004-2015.	3.8	42
56	Maintenance of Large Subpopulations of Differentiated CD8 T-Cells Two Years after Cytomegalovirus Infection in Gambian Infants. <i>PLoS ONE</i> , 2008, 3, e2905.	2.5	40
57	Predictive factors of smell recovery in a clinical series of 288 coronavirus disease 2019 patients with olfactory dysfunction. <i>European Journal of Neurology</i> , 2021, 28, 3702-3711.	3.3	40
58	Natural Variation in Immune Responses to Neonatal Mycobacterium bovis Bacillus Calmette-Guerin (BCG) Vaccination in a Cohort of Gambian Infants. <i>PLoS ONE</i> , 2008, 3, e3485.	2.5	40
59	Predictors of neutralizing antibody response to BNT162b2 vaccination in allogeneic hematopoietic stem cell transplant recipients. <i>Journal of Hematology and Oncology</i> , 2021, 14, 174.	17.0	40
60	Maternal immunization confers protection against neonatal herpes simplex mortality and behavioral morbidity. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	39
61	Epidemiology, pathogenesis and prevention of congenital cytomegalovirus infection. <i>Expert Review of Anti-Infective Therapy</i> , 2004, 2, 881-894.	4.4	36
62	CD4 <sup>+</sup> T Cell Responses to Cytomegalovirus in Early Life: A Prospective Birth Cohort Study. <i>Journal of Infectious Diseases</i> , 2008, 197, 658-662.	4.0	35
63	BCG-associated heterologous immunity, a historical perspective: intervention studies in animal models of infectious diseases. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2015, 109, 52-61.	1.8	34
64	Objective Olfactory Findings in Hospitalized Severe COVID-19 Patients. <i>Pathogens</i> , 2020, 9, 627.	2.8	34
65	Antibody avidity, persistence, and response to antigen recall: comparison of vaccine adjuvants. <i>Npj Vaccines</i> , 2021, 6, 78.	6.0	34
66	Three doses of BNT162b2 vaccine confer neutralising antibody capacity against the SARS-CoV-2 Omicron variant. <i>Npj Vaccines</i> , 2022, 7, 35.	6.0	34
67	Variables to be controlled in the assessment of blood innate immune responses to Toll-like receptor stimulation. <i>Journal of Immunological Methods</i> , 2011, 366, 89-99.	1.4	33
68	Procoagulant effect of the OKT3 monoclonal antibody: Involvement of tumor necrosis factor. <i>Kidney International</i> , 1992, 42, 1124-1129.	5.2	31
69	Characterization of a subset of antigen-specific human central memory CD4 <sup>+</sup> T lymphocytes producing effector cytokines. <i>European Journal of Immunology</i> , 2008, 38, 273-282.	2.9	30
70	Single-Cell Analysis of Innate Cytokine Responses to Pattern Recognition Receptor Stimulation in Children across Four Continents. <i>Journal of Immunology</i> , 2014, 193, 3003-3012.	0.8	30
71	BCG-associated heterologous immunity, a historical perspective: experimental models and immunological mechanisms. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2015, 109, 46-51.	1.8	30
72	Breastfeeding-related maternal microchimerism. <i>Nature Reviews Immunology</i> , 2017, 17, 729-729.	22.7	30

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73	Primary Human Cytomegalovirus Infection Induces the Expansion of Virus-Specific Activated and Atypical Memory B Cells. <i>Journal of Infectious Diseases</i> , 2014, 210, 1275-1285.	4.0	29
74	Endogenous Interleukin-10 in Inflammatory Disorders: Regulatory Roles and Pharmacological Modulation. <i>Annals of the New York Academy of Sciences</i> , 1996, 796, 282-293.	3.8	28
75	Nonprimary Maternal Cytomegalovirus Infection After Viral Shedding in Infants. <i>Pediatric Infectious Disease Journal</i> , 2018, 37, 627-631.	2.0	28
76	Boosting of cross-reactive antibodies to endemic coronaviruses by SARS-CoV-2 infection but not vaccination with stabilized spike. <i>ELife</i> , 2022, 11, .	6.0	26
77	Presence of Cytomegalovirus in urine and blood of pregnant women with primary infection might be associated with fetal infection. <i>Journal of Clinical Virology</i> , 2017, 90, 14-17.	3.1	24
78	Poor Antibody Response to BioNTech/Pfizer Coronavirus Disease 2019 Vaccination in Severe Acute Respiratory Syndrome Coronavirus 2- Naive Residents of Nursing Homes. <i>Clinical Infectious Diseases</i> , 2022, 75, e695-e704.	5.8	23
79	The role of interleukin-10 in the pathogenesis of bacterial infection. <i>Clinical Microbiology and Infection</i> , 1997, 3, 605-607.	6.0	21
80	Changing oral vaccine to inactivated polio vaccine might increase mortality. <i>Lancet, The</i> , 2016, 387, 1054-1055.	13.7	21
81	Understanding the Ontogeny of the Immune System to Promote Immune-Mediated Health for Life. <i>Frontiers in Immunology</i> , 2015, 6, 77.	4.8	20
82	Functional reprogramming of monocytes in patients with acute and convalescent severe COVID-19. <i>JCI Insight</i> , 2022, 7, .	5.0	19
83	Postnatal Acquisition of Primary Rhesus Cytomegalovirus Infection is Associated With Prolonged Virus Shedding and Impaired CD4+ T Lymphocyte Function. <i>Journal of Infectious Diseases</i> , 2014, 210, 1090-1099.	4.0	17
84	SARS-CoV-2: Virology, epidemiology, immunology and vaccine development. <i>Biologicals</i> , 2020, 66, 35-40.	1.4	17
85	Antibody response against SARS-CoV-2 Delta and Omicron variants after third-dose BNT162b2 vaccination in allo-HCT recipients. <i>Cancer Cell</i> , 2022, , .	16.8	17
86	Pediatric COVID-19: Immunopathogenesis, Transmission and Prevention. <i>Vaccines</i> , 2021, 9, 1002.	4.4	16
87	Towards Predicting Protective Vaccine Responses in the Very Young. <i>Trends in Immunology</i> , 2016, 37, 523-534.	6.8	15
88	Innate Immune Responses and Gut Microbiomes Distinguish HIV-Exposed from HIV-Unexposed Children in a Population-Specific Manner. <i>Journal of Immunology</i> , 2020, 205, 2618-2628.	0.8	13
89	Sequestration of human cytomegalovirus by human renal and mammary epithelial cells. <i>Virology</i> , 2014, 460-461, 55-65.	2.4	12
90	Immunological mechanisms of inducing HIV immunity in infants. <i>Vaccine</i> , 2020, 38, 411-415.	3.8	11

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91	Genomic Programming of Human Neonatal Dendritic Cells in Congenital Systemic and In Vitro Cytomegalovirus Infection Reveal Plastic and Robust Immune Pathway Biology Responses. <i>Frontiers in Immunology</i> , 2017, 8, 1146.	4.8	9
92	Hybrid immunity to SARS-CoV-2 in kidney transplant recipients and hemodialysis patients. <i>American Journal of Transplantation</i> , 2022, 22, 994-995.	4.7	9
93	HIV-Associated Alterations of the Biophysical Features of Maternal Antibodies Correlate With Their Reduced Transfer Across the Placenta. <i>Journal of Infectious Diseases</i> , 2022, 226, 1441-1450.	4.0	9
94	Biogeography of the Relationship between the Child Gut Microbiome and Innate Immune System. <i>MBio</i> , 2021, 12, .	4.1	8
95	Immunity and immunopathology in early human life. <i>Seminars in Immunopathology</i> , 2017, 39, 575-576.	6.1	7
96	Limited Effector Memory B-Cell Response to Envelope Glycoprotein B During Primary Human Cytomegalovirus Infection. <i>Journal of Infectious Diseases</i> , 2016, 213, 1642-1650.	4.0	5
97	Higher Expectations for a Vaccine To Prevent Congenital Cytomegalovirus Infection. <i>Journal of Virology</i> , 2018, 92, .	3.4	5
98	Insights From Early Clinical Trials Assessing Response to mRNA SARS-CoV-2 Vaccination in Immunocompromised Patients. <i>Frontiers in Immunology</i> , 2022, 13, 827242.	4.8	5
99	Prevalence, Risk Factors, and Serotype Distribution of Group B Streptococcus Colonization in HIV-Infected Pregnant Women Living in Belgium: A Prospective Cohort Study. <i>Open Forum Infectious Diseases</i> , 2018, 5, ofy320.	0.9	4
100	The Fifth International Neonatal and Maternal Immunization Symposium (INMIS 2019): Securing Protection for the Next Generation. <i>MSphere</i> , 2021, 6, .	2.9	4
101	One vaccine for life: Lessons from immune ontogeny. <i>Journal of Paediatrics and Child Health</i> , 2021, 57, 782-785.	0.8	4
102	The prior infection with SARS-CoV-2 study (PICOV) in nursing home residents and staff - study protocol description and presentation of preliminary findings on symptoms.. <i>Archives of Public Health</i> , 2021, 79, 195.	2.4	4
103	Maternal determinants of infant immunity: Implications for effective immunization and maternal-child health. <i>Vaccine</i> , 2020, 38, 4491-4494.	3.8	3
104	Maternal HIV Infection Alters Antimicrobial Immunity in Exposed and Uninfected Infants. <i>Pediatric Infectious Disease Journal</i> , 2020, 39, e47-e48.	2.0	3
105	Do PI3-kinase mutations drive T cells insane?. <i>Cellular and Molecular Immunology</i> , 2014, 11, 320-322.	10.5	2
106	Reply to Slogrove et al. <i>Clinical Infectious Diseases</i> , 2019, 68, 2158-2158.	5.8	2
107	Fc Glycosylation Characterization of Human Immunoglobulins G Using Immunocapture and LC-MS. <i>Methods in Molecular Biology</i> , 2021, 2271, 57-71.	0.9	1
108	Fetal infections. , 0, , 200-207.		0

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109	Fetal Infections: Immune Response to Infections during Fetal Life. , 2019, , 215-223.		0
110	Immunobiological aspects of vaccines in pregnancy: Maternal perspective. , 2020, , 43-65.		0