

# Tryptophan Catabolism by Indoleamine 2,3-Dioxygenase <sub>H</sub> 17 to Regulatory T Cells in HIV Disease

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Citation Report

#	ARTICLE	IF	CITATIONS
1	On high alert. <i>Nature</i> , 2010, 466, S2-S3.	13.7	1
2	Psychological Stress-Induced, IDO1-Dependent Tryptophan Catabolism: Implications on Immunosuppression in Mice and Humans. <i>PLoS ONE</i> , 2010, 5, e11825.	1.1	95
3	How Do HIV Elite Controllers Do What They Do?. <i>Clinical Infectious Diseases</i> , 2010, 51, 239-241.	2.9	43
4	Insights into Therapy: Tryptophan Oxidation and HIV Infection. <i>Science Translational Medicine</i> , 2010, 2, 32ps23.	5.8	13
5	Regulatory T cells in HIV immunotherapy. <i>HIV Therapy</i> , 2010, 4, 639-647.	0.6	15
7	Deficient Tryptophan Catabolism along the Kynurenine Pathway Reveals That the Epididymis Is in a Unique Tolerogenic State. <i>Journal of Biological Chemistry</i> , 2011, 286, 8030-8042.	1.6	44
9	Th17 cells and regulatory T cells in elite control over HIV and SIV. <i>Current Opinion in HIV and AIDS</i> , 2011, 6, 221-227.	1.5	76
10	Innate immunity in acute HIV-1 infection. <i>Current Opinion in HIV and AIDS</i> , 2011, 6, 353-363.	1.5	49
11	Targeting HIV-1 innate immune responses therapeutically. <i>Current Opinion in HIV and AIDS</i> , 2011, 6, 435-443.	1.5	11
12	Sigmoid Th17 populations, the HIV latent reservoir, and microbial translocation in men on long-term antiretroviral therapy. <i>Aids</i> , 2011, 25, 741-749.	1.0	126
13	HIV and hepatitis C coinfection. <i>Current Opinion in HIV and AIDS</i> , 2011, 6, 472-477.	1.5	46
14	Gut inflammation and indoleamine deoxygenase inhibit IL-17 production and promote cytotoxic potential in NKp44+ mucosal NK cells during SIV infection. <i>Blood</i> , 2011, 118, 3321-3330.	0.6	97
15	HIV disease progression correlates with the generation of dysfunctional naive CD8low T cells. <i>Blood</i> , 2011, 117, 2189-2199.	0.6	30
16	Overactivation of plasmacytoid dendritic cells inhibits antiviral T-cell responses: a model for HIV immunopathogenesis. <i>Blood</i> , 2011, 118, 5152-5162.	0.6	43
17	Immune biomarker panel monitoring utilizing IDO enzyme activity and CD4 ATP levels: Prediction of acute rejection vs. viral replication events. <i>Pediatric Transplantation</i> , 2011, 15, 321-328.	0.5	6
18	Loss of balance between T helper type 17 and regulatory T cells in chronic human immunodeficiency virus infection. <i>Clinical and Experimental Immunology</i> , 2011, 165, 363-371.	1.1	30
19	Indoleamine 2,3-dioxygenase-expressing peripheral cells in rheumatoid arthritis and systemic lupus erythematosus: a cross-sectional study. <i>European Journal of Clinical Investigation</i> , 2011, 41, 1037-1046.	1.7	25
20	DCs and NK cells: critical effectors in the immune response to HIV-1. <i>Nature Reviews Immunology</i> , 2011, 11, 176-186.	10.6	177

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21	Highlights of 10 years of immunology in Nature Reviews Immunology. Nature Reviews Immunology, 2011, 11, 693-702.	10.6	95
22	Long-term non-progressors display a greater number of Th17 cells than HIV-infected typical progressors. Clinical Immunology, 2011, 139, 110-114.	1.4	60
23	HIV controllers: A multifactorial phenotype of spontaneous viral suppression. Clinical Immunology, 2011, 141, 15-30.	1.4	44
24	Role of dendritic cells in the induction of regulatory T cells. Cell and Bioscience, 2011, 1, 20.	2.1	126
25	HIV/AIDS: 30 Years of progress and future challenges. European Journal of Immunology, 2011, 41, 3401-3411.	1.6	30
26	Haemophilus ducreyi Lipooligosaccharides Induce Expression of the Immunosuppressive Enzyme Indoleamine 2,3-Dioxygenase via Type I Interferons and Tumor Necrosis Factor Alpha in Human Dendritic Cells. Infection and Immunity, 2011, 79, 3338-3347.	1.0	26
27	The Human Fetal Immune Response to Hepatitis C Virus Exposure in Utero. Journal of Infectious Diseases, 2011, 203, 196-206.	1.9	45
28	Increased Frequency of Regulatory T Cells Accompanies Increased Immune Activation in Rectal Mucosae of HIV-Positive Noncontrollers. Journal of Virology, 2011, 85, 11422-11434.	1.5	98
29	Low Level of Regulatory T Cells and Maintenance of Balance Between Regulatory T Cells and TH17 Cells in HIV-1-Infected Elite Controllers. Journal of Acquired Immune Deficiency Syndromes (1999), 2011, 57, 101-108.	0.9	53
30	Antigen-Dependent and -Independent Mechanisms of T and B Cell Hyperactivation during Chronic HIV-1 Infection. Journal of Virology, 2011, 85, 12102-12113.	1.5	92
31	Evidence of Microbial Translocation Associated with Perturbations in T Cell and Antigen-Presenting Cell Homeostasis in Hookworm Infections. PLoS Neglected Tropical Diseases, 2012, 6, e1830.	1.3	33
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33	Tryptophan metabolism activation by indoleamine 2,3-dioxygenase in adipose tissue of obese women: an attempt to maintain immune homeostasis and vascular tone. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R135-R143.	0.9	95
34	Incomplete Immune Recovery in HIV Infection: Mechanisms, Relevance for Clinical Care, and Possible Solutions. Clinical and Developmental Immunology, 2012, 2012, 1-17.	3.3	140
35	<i>In Vitro</i> Restoration of Th17 Response During HIV Infection with an Antiretroviral Drug and Th17 Differentiation Cytokines. AIDS Research and Human Retroviruses, 2012, 28, 823-834.	0.5	12
36	Polyclonal CD4+Foxp3+ Treg cells induce TGF $\beta$ -dependent tolerogenic dendritic cells that suppress the murine lupus-like syndrome. Journal of Molecular Cell Biology, 2012, 4, 409-419.	1.5	73
37	Thirty Years with HIV Infection—Nonprogression Is Still Puzzling: Lessons to Be Learned from Controllers and Long-Term Nonprogressors. AIDS Research and Treatment, 2012, 2012, 1-14.	0.3	47
38	Regulatory T Cells in HIV Infection: Can Immunotherapy Regulate the Regulator?. Clinical and Developmental Immunology, 2012, 2012, 1-12.	3.3	36

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39	SIV Replication in the Infected Rhesus Macaque Is Limited by the Size of the Preexisting T <sub>H</sub> 17 Cell Compartment. <i>Science Translational Medicine</i> , 2012, 4, 136ra69.	5.8	34
40	Candida and candidiasis in HIV-infected patients. <i>Aids</i> , 2012, 26, 1457-1472.	1.0	138
41	Myeloid dendritic cells isolated from tissues of SIV-infected Rhesus macaques promote the induction of regulatory T cells. <i>Aids</i> , 2012, 26, 263-273.	1.0	29
42	The Kynurenine Pathway in Brain Tumor Pathogenesis. <i>Cancer Research</i> , 2012, 72, 5649-5657.	0.4	114
43	Plasmacytoid Dendritic Cells in HIV Infection. <i>Advances in Experimental Medicine and Biology</i> , 2012, 762, 71-107.	0.8	58
44	Mechanisms of environmental influence on human autoimmunity: A national institute of environmental health sciences expert panel workshop. <i>Journal of Autoimmunity</i> , 2012, 39, 272-284.	3.0	151
45	Host Indoleamine 2,3-Dioxygenase: Contribution to Systemic Acquired Tumor Tolerance. <i>Immunological Investigations</i> , 2012, 41, 765-797.	1.0	86
46	IDO in Human Gut Graft-versus-Host Disease. <i>Biology of Blood and Marrow Transplantation</i> , 2012, 18, 150-155.	2.0	24
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49	M. tuberculosis Induces Potent Activation of IDO-1, but This Is Not Essential for the Immunological Control of Infection. <i>PLoS ONE</i> , 2012, 7, e37314.	1.1	78
50	HIV Impairment of Immune Responses in Dendritic Cells. <i>Advances in Experimental Medicine and Biology</i> , 2012, 762, 201-238.	0.8	5
51	Control of Innate and Adaptive Immune Responses during Infectious Diseases. , 2012, , .		4
52	A role for mucosal IL-22 production and Th22 cells in HIV-associated mucosal immunopathogenesis. <i>Mucosal Immunology</i> , 2012, 5, 670-680.	2.7	163
53	Indoleamine 2,3-Dioxygenase and Dendritic Cell Tolerogenicity. <i>Immunological Investigations</i> , 2012, 41, 738-764.	1.0	140
54	IL-17-producing innate lymphoid cells are restricted to mucosal tissues and are depleted in SIV-infected macaques. <i>Mucosal Immunology</i> , 2012, 5, 658-669.	2.7	107
55	Microbial translocation in HIV infection: causes, consequences and treatment opportunities. <i>Nature Reviews Microbiology</i> , 2012, 10, 655-666.	13.6	373
56	HIV-Induced T-Cell Activation/Exhaustion in Rectal Mucosa Is Controlled Only Partially by Antiretroviral Treatment. <i>PLoS ONE</i> , 2012, 7, e30307.	1.1	48

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57	Altered Tryptophan Metabolism as a Paradigm for Good and Bad Aspects of Immune Privilege in Chronic Inflammatory Diseases. <i>Frontiers in Immunology</i> , 2012, 3, 109.	2.2	18
58	Elevated effector cell sensitivity to Treg cell suppression that is not associated with reduced Th17 cell expression distinguishes HIV asymptomatic subjects from progressors. <i>European Journal of Immunology</i> , 2012, 42, 138-146.	1.6	9
59	Preserved Function of Regulatory T Cells in Chronic HIV-1 Infection Despite Decreased Numbers in Blood and Tissue. <i>Journal of Infectious Diseases</i> , 2012, 205, 1495-1500.	1.9	67
60	Eliminating the HIV Reservoir. <i>Current HIV/AIDS Reports</i> , 2012, 9, 121-131.	1.1	23
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63	HIV and Inflammation: Mechanisms and Consequences. <i>Current HIV/AIDS Reports</i> , 2012, 9, 139-147.	1.1	333
64	Residual Immune Dysregulation Syndrome in Treated HIV infection. <i>Advances in Immunology</i> , 2013, 119, 51-83.	1.1	295
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66	Indoleamine 2,3-dioxygenase inhibitors: a patent review (2008 – 2012). <i>Expert Opinion on Therapeutic Patents</i> , 2013, 23, 1367-1381.	2.4	47
67	The role of T cell immunity in HIV-1 infection. <i>Current Opinion in Virology</i> , 2013, 3, 438-446.	2.6	13
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69	Systemic Effects of Inflammation on Health during Chronic HIV Infection. <i>Immunity</i> , 2013, 39, 633-645.	6.6	651
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72	HIV-associated chronic immune activation. <i>Immunological Reviews</i> , 2013, 254, 78-101.	2.8	349
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74	Monitoring cellular immune markers in HIV infection. <i>Current Opinion in HIV and AIDS</i> , 2013, 8, 125-131.	1.5	29

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75	HIV-1 Tat protein induces the production of IDO in human monocyte derived-dendritic cells through a direct mechanism: effect on T cells proliferation. <i>Retrovirology</i> , 2013, 10, .	0.9	0
76	The role of indoleamine 2,3-dioxygenase in LP-BM5 murine retroviral disease progression. <i>Virology Journal</i> , 2013, 10, 154.	1.4	14
77	Multi-functional plasmacytoid dendritic cells redistribute to gut tissues during simian immunodeficiency virus infection. <i>Immunology</i> , 2013, 140, 244-249.	2.0	18
78	Immune activation and HIV persistence: implications for curative approaches to HIV infection. <i>Immunological Reviews</i> , 2013, 254, 326-342.	2.8	334
79	Plasma metabolomics identifies lipid abnormalities linked to markers of inflammation, microbial translocation, and hepatic function in HIV patients receiving protease inhibitors. <i>BMC Infectious Diseases</i> , 2013, 13, 203.	1.3	114
80	CD4 <sup>+</sup> T cell depletion in HIV infection: mechanisms of immunological failure. <i>Immunological Reviews</i> , 2013, 254, 54-64.	2.8	412
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85	Mucosal immunity in human and simian immunodeficiency lentivirus infections. <i>Mucosal Immunology</i> , 2013, 6, 657-665.	2.7	62
86	Dendritic cell dysregulation during HIV-1 infection. <i>Immunological Reviews</i> , 2013, 254, 170-189.	2.8	95
87	Unravelling the mechanisms of durable control of HIV-1. <i>Nature Reviews Immunology</i> , 2013, 13, 487-498.	10.6	211
88	Histamine enhances HIV-1-induced modulation of dendritic cells to skew naïve T cell differentiation toward regulatory T cells. <i>Virology</i> , 2013, 442, 163-172.	1.1	8
89	Short Communication: HIV+ Viremic Slow Progressors Maintain Low Regulatory T Cell Numbers in Rectal Mucosa but Exhibit High T Cell Activation. <i>AIDS Research and Human Retroviruses</i> , 2013, 29, 172-177.	0.5	13
90	Microbial translocation, immune activation, and HIV disease. <i>Trends in Microbiology</i> , 2013, 21, 6-13.	3.5	289
91	Suppressed Th17 Levels Correlate with Elevated PIAS3, SHP2, and SOCS3 Expression in CD4 T Cells during Acute Simian Immunodeficiency Virus Infection. <i>Journal of Virology</i> , 2013, 87, 7093-7101.	1.5	33
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94	Cell-Mediated Immunity in Elite Controllers Naturally Controlling HIV Viral Load. <i>Frontiers in Immunology</i> , 2013, 4, 86.	2.2	29
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96	Dipteriny Calcium Pentahydrate Inhibits Intracellular Mycobacterial Growth in Human Monocytes via the C-C Chemokine MIP-1 $\beta$ and Nitric Oxide. <i>Infection and Immunity</i> , 2013, 81, 1974-1983.	1.0	6
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98	CD4+FOXP3+ Regulatory T-Cell Subsets in Human Immunodeficiency Virus Infection. <i>Frontiers in Immunology</i> , 2013, 4, 215.	2.2	45
99	Induction of TDO2 and IDO2 in Liver by High-Fat Feeding in Mice: Discrepancies with Human Obesity. <i>International Journal of Tryptophan Research</i> , 2013, 6s1, IJTR.S11717.	1.0	13
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103	Verification of Association of Elevated Serum IDO Enzyme Activity With Acute Rejection and Low CD4-ATP Levels With Infection. <i>Transplantation</i> , 2013, 96, 567-572.	0.5	15
104	HIV-1 Tat protein binds to TLR4-MD2 and signals to induce TNF- $\alpha$ and IL-10. <i>Retrovirology</i> , 2013, 10, 123.	0.9	63
105	Imbalances of Gut-Homing CD4+ T-Cell Subsets in HIV-1-Infected Chinese Patients. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2013, 64, 25-31.	0.9	9
106	Loss and Dysregulation of Th17 Cells during HIV Infection. <i>Clinical and Developmental Immunology</i> , 2013, 2013, 1-9.	3.3	66
107	Incomplete Normalization of Regulatory T-Cell Frequency in the Gut Mucosa of Colombian HIV-Infected Patients Receiving Long-Term Antiretroviral Treatment. <i>PLoS ONE</i> , 2013, 8, e71062.	1.1	22
108	Distinct Tryptophan Catabolism and Th17/Treg Balance in HIV Progressors and Elite Controllers. <i>PLoS ONE</i> , 2013, 8, e78146.	1.1	88
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112	Attenuation of Experimental Colitis in Glutathione Peroxidase 1 and Catalase Double Knockout Mice through Enhancing Regulatory T Cell Function. PLoS ONE, 2014, 9, e95332.	1.1	29
113	Involvement of the Kynurenine Pathway in Human Glioma Pathophysiology. PLoS ONE, 2014, 9, e112945.	1.1	101
114	Classification of current anticancer immunotherapies. Oncotarget, 2014, 5, 12472-12508.	0.8	395
115	Th17 Cells Coordinate with Th22 Cells in Maintaining Homeostasis of Intestinal Tissues and both are Depleted in SIV-Infected Macaques. Journal of AIDS & Clinical Research, 2014, 05, .	0.5	44
116	Gastrointestinal Immunity in Natural Hosts of Simian Immunodeficiency Virus. , 2014, , 123-134.		0
117	Trial watch: IDO inhibitors in cancer therapy. OncoImmunology, 2014, 3, e957994.	2.1	223
118	The role of extended-release niacin on immune activation and neurocognition in HIV-infected patients treated with antiretroviral therapy â€” CTN PT006: study protocol for a randomized controlled trial. Trials, 2014, 15, 390.	0.7	13
119	Immune responses during spontaneous control of HIV and AIDS: what is the hope for a cure?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130436.	1.8	24
120	Gut Epithelial Barrier Dysfunction and Innate Immune Activation Predict Mortality in Treated HIV Infection. Journal of Infectious Diseases, 2014, 210, 1228-1238.	1.9	395
121	Soluble Markers of Inflammation and Coagulation but Not T-Cell Activation Predict Nonâ€”AIDS-Defining Morbid Events During Suppressive Antiretroviral Treatment. Journal of Infectious Diseases, 2014, 210, 1248-1259.	1.9	464
122	Future considerations for dendritic cell immunotherapy against chronic viral infections. Expert Review of Clinical Immunology, 2014, 10, 801-813.	1.3	8
123	Tolerogenic Splenic IDO<sup><b>+</b></sup>Dendritic Cells from the Mice Treated with Induced-Treg Cells Suppress Collagen-Induced Arthritis. Journal of Immunology Research, 2014, 2014, 1-12.	0.9	26
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125	The Kynurenine Pathway of Tryptophan Catabolism, CD4+ T-Cell Recovery, and Mortality Among HIV-Infected Ugandans Initiating Antiretroviral Therapy. Journal of Infectious Diseases, 2014, 210, 383-391.	1.9	101
126	Immunoregulatory T Cells May Be Involved in Preserving CD4 T Cell Counts in HIV-Infected Long-Term Nonprogressors and Controllers. Journal of Acquired Immune Deficiency Syndromes (1999), 2014, 65, 10-18.	0.9	34
127	Reversal of the Kynurenine Pathway of Tryptophan Catabolism May Improve Depression in ART-Treated HIV-Infected Ugandans. Journal of Acquired Immune Deficiency Syndromes (1999), 2014, 65, 456-462.	0.9	72
128	Innate Immunity in Simian Immunodeficiency Virus Infection. , 2014, , 135-172.		0

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129	Whole genome response in guinea pigs infected with the high virulence strain Mycobacterium tuberculosis TT372. <i>Tuberculosis</i> , 2014, 94, 606-615.	0.8	11
130	Breast-fed and bottle-fed infant rhesus macaques develop distinct gut microbiotas and immune systems. <i>Science Translational Medicine</i> , 2014, 6, 252ra120.	5.8	115
131	HIV and aging. <i>Current Opinion in HIV and AIDS</i> , 2014, 9, 302-308.	1.5	42
132	Loss of Th22 Cells Is Associated With Increased Immune Activation and IDO-1 Activity in HIV-1 Infection. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2014, 67, 227-235.	0.9	38
133	HIV-1 Tat Protein Induces PD-L1 (B7-H1) Expression on Dendritic Cells through Tumor Necrosis Factor Alpha- and Toll-Like Receptor 4-Mediated Mechanisms. <i>Journal of Virology</i> , 2014, 88, 6672-6689.	1.5	48
134	Th17 Cells. , 2014, , 1-9.		0
135	Systemic immune activation in HIV and potential therapeutic options. <i>Immunopharmacology and Immunotoxicology</i> , 2014, 36, 89-95.	1.1	7
136	New Insights into IDO Biology in Bacterial and Viral Infections. <i>Frontiers in Immunology</i> , 2014, 5, 384.	2.2	158
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138	Dendritic cells in progression and pathology of HIV infection. <i>Trends in Immunology</i> , 2014, 35, 114-122.	2.9	78
139	Microbial exposure alters HIV-1-induced mucosal CD4+ T cell death pathways Ex vivo. <i>Retrovirology</i> , 2014, 11, 14.	0.9	52
140	HIV- <i>Mycobacterium tuberculosis</i> co-infection: a â€“danger-couple modelâ€™ of disease pathogenesis. <i>Pathogens and Disease</i> , 2014, 70, 110-118.	0.8	65
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142	The Carcinoma-Associated Fibroblast Expressing Fibroblast Activation Protein and Escape from Immune Surveillance. <i>Cancer Immunology Research</i> , 2014, 2, 187-193.	1.6	223
143	The cross talk between microbiota and the immune system: metabolites take center stage. <i>Current Opinion in Immunology</i> , 2014, 30, 54-62.	2.4	159
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146	Immunologic strategies for HIV-1 remission and eradication. <i>Science</i> , 2014, 345, 169-174.	6.0	193

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147	Low Proportions of CD28 <sup>hi</sup> CD8 <sup>+</sup> T cells Expressing CD57 Can Be Reversed by Early ART Initiation and Predict Mortality in Treated HIV Infection. <i>Journal of Infectious Diseases</i> , 2014, 210, 374-382.	1.9	53
148	Acting locally: innate mucosal immunity in resistance to HIV-1 infection in Kenyan commercial sex workers. <i>Mucosal Immunology</i> , 2014, 7, 268-279.	2.7	47
149	Levels of circulating myeloid subpopulations and of heme oxygenase-1 do not predict CD4 <sup>+</sup> T cell recovery after the initiation of antiretroviral therapy for HIV disease. <i>AIDS Research and Therapy</i> , 2014, 11, 27.	0.7	2
150	Altered Monoamine and Acylcarnitine Metabolites in HIV-Positive and HIV-Negative Subjects With Depression. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2015, 69, 18-28.	0.9	33
151	HIV infection. <i>Nature Reviews Disease Primers</i> , 2015, 1, 15035.	18.1	340
152	Role of indoleamine 2,3-dioxygenase in health and disease. <i>Clinical Science</i> , 2015, 129, 601-672.	1.8	188
153	Th17 and Th17/Treg ratio at early HIV infection associate with protective HIV-specific CD8 <sup>+</sup> T-cell responses and disease progression. <i>Scientific Reports</i> , 2015, 5, 11511.	1.6	47
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