

Charles O Elson

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89
papers

13,942
citations

48
h-index

112
g-index

112
ext. papers

15,566
ext. citations

11
avg, IF

6.12
L-index

#	Paper	IF	Citations
89	Transforming growth factor-beta induces development of the T(H)17 lineage. <i>Nature</i> , 2006 , 441, 231-4	50.4	2728
88	Reciprocal interactions of the intestinal microbiota and immune system. <i>Nature</i> , 2012 , 489, 231-41	50.4	982
87	Late developmental plasticity in the T helper 17 lineage. <i>Immunity</i> , 2009 , 30, 92-107	32.3	807
86	Anti-interleukin-12 antibody for active Crohn's disease. <i>New England Journal of Medicine</i> , 2004 , 351, 2069-79	39.2	711
85	Bacterial flagellin is a dominant antigen in Crohn disease. <i>Journal of Clinical Investigation</i> , 2004 , 113, 1296-1306	15.9	555
84	Dextran sulfate sodium-induced colitis occurs in severe combined immunodeficient mice. <i>Gastroenterology</i> , 1994 , 107, 1643-52	13.3	555
83	Innate lymphoid cells regulate CD4+ T-cell responses to intestinal commensal bacteria. <i>Nature</i> , 2013 , 498, 113-7	50.4	508
82	Experimental models of inflammatory bowel disease reveal innate, adaptive, and regulatory mechanisms of host dialogue with the microbiota. <i>Immunological Reviews</i> , 2005 , 206, 260-76	11.3	404
81	Antibodies to CBir1 flagellin define a unique response that is associated independently with complicated Crohn's disease. <i>Gastroenterology</i> , 2005 , 128, 2020-8	13.3	382
80	Monoclonal anti-interleukin 23 reverses active colitis in a T cell-mediated model in mice. <i>Gastroenterology</i> , 2007 , 132, 2359-70	13.3	371
79	CD4+ T cells reactive to enteric bacterial antigens in spontaneously colitic C3H/HeJBir mice: increased T helper cell type 1 response and ability to transfer disease. <i>Journal of Experimental Medicine</i> , 1998 , 187, 855-64	16.6	323
78	A dominant, coordinated T regulatory cell-IgA response to the intestinal microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19256-61	11.5	318
77	Immune tolerance. Group 3 innate lymphoid cells mediate intestinal selection of commensal bacteria-specific CD4+ T cells. <i>Science</i> , 2015 , 348, 1031-5	33.3	308
76	The Th17 pathway and inflammatory diseases of the intestines, lungs, and skin. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2013 , 8, 477-512	34	293
75	Bacterial flagellin is a dominant antigen in Crohn disease. <i>Journal of Clinical Investigation</i> , 2004 , 113, 1296-306	15.9	290
74	Acute gastrointestinal infection induces long-lived microbiota-specific T cell responses. <i>Science</i> , 2012 , 337, 1553-6	33.3	281
73	Serum immune responses predict rapid disease progression among children with Crohn's disease: immune responses predict disease progression. <i>American Journal of Gastroenterology</i> , 2006 , 101, 360-7	0.7	238

72	Differential susceptibility of inbred mouse strains to dextran sulfate sodium-induced colitis. <i>American Journal of Physiology - Renal Physiology</i> , 1998 , 274, G544-51	5.1	186
71	Bacterial-reactive T regulatory cells inhibit pathogenic immune responses to the enteric flora. <i>Journal of Immunology</i> , 2002 , 169, 6112-9	5.3	177
70	Microbiota innate stimulation is a prerequisite for T cell spontaneous proliferation and induction of experimental colitis. <i>Journal of Experimental Medicine</i> , 2010 , 207, 1321-32	16.6	174
69	Spontaneous, heritable colitis in a new substrain of C3H/HeJ mice. <i>Gastroenterology</i> , 1994 , 107, 1726-35	13.3	168
68	TGF-beta promotes Th17 cell development through inhibition of SOCS3. <i>Journal of Immunology</i> , 2009 , 183, 97-105	5.3	166
67	Th17 cells upregulate polymeric Ig receptor and intestinal IgA and contribute to intestinal homeostasis. <i>Journal of Immunology</i> , 2012 , 189, 4666-73	5.3	157
66	Altered microbiota associated with abnormal humoral immune responses to commensal organisms in enthesitis-related arthritis. <i>Arthritis Research and Therapy</i> , 2014 , 16, 486	5.7	134
65	Th17 cells induce colitis and promote Th1 cell responses through IL-17 induction of innate IL-12 and IL-23 production. <i>Journal of Immunology</i> , 2011 , 186, 6313-8	5.3	130
64	T helper 1 and T helper 2 cells are pathogenic in an antigen-specific model of colitis. <i>Journal of Experimental Medicine</i> , 2002 , 195, 71-84	16.6	125
63	Experimental inflammatory bowel disease: insights into the host-microbiota dialog. <i>Immunity</i> , 2011 , 34, 293-302	32.3	121
62	Perspectives on mucosal vaccines: is mucosal tolerance a barrier?. <i>Journal of Immunology</i> , 2007 , 179, 5633-8	5.3	120
61	Microbiota downregulates dendritic cell expression of miR-10a, which targets IL-12/IL-23p40. <i>Journal of Immunology</i> , 2011 , 187, 5879-86	5.3	117
60	Adaptive immune education by gut microbiota antigens. <i>Immunology</i> , 2018 , 154, 28-37	7.8	109
59	A novel role for defensins in intestinal homeostasis: regulation of IL-1beta secretion. <i>Journal of Immunology</i> , 2007 , 179, 1245-53	5.3	96
58	Microbial antigen encounter during a preweaning interval is critical for tolerance to gut bacteria. <i>Science Immunology</i> , 2017 , 2,	28	88
57	Genetic analysis of susceptibility to dextran sulfate sodium-induced colitis in mice. <i>Genomics</i> , 1999 , 55, 147-56	4.3	88
56	Isolation of flagellated bacteria implicated in Crohn's disease. <i>Inflammatory Bowel Diseases</i> , 2007 , 13, 1191-201	4.5	87
55	Anti-flagellin (CBir1) phenotypic and genetic Crohn's disease associations. <i>Inflammatory Bowel Diseases</i> , 2007 , 13, 524-30	4.5	84

54	Generation of mucosal dendritic cells from bone marrow reveals a critical role of retinoic acid. <i>Journal of Immunology</i> , 2010 , 185, 5915-25	5.3	82
53	Microbiota activation and regulation of innate and adaptive immunity. <i>Immunological Reviews</i> , 2014 , 260, 206-20	11.3	81
52	Colitis induced by enteric bacterial antigen-specific CD4+ T cells requires CD40-CD40 ligand interactions for a sustained increase in mucosal IL-12. <i>Journal of Immunology</i> , 2000 , 165, 2173-82	5.3	78
51	Host-microbiota interactions in inflammatory bowel disease. <i>Gut Microbes</i> , 2012 , 3, 332-44	8.8	73
50	Tight mucosal compartmentation of the murine immune response to antigens of the enteric microbiota. <i>Gastroenterology</i> , 2006 , 130, 2050-9	13.3	71
49	Microbial induction of inflammatory bowel disease associated gene TL1A (TNFSF15) in antigen presenting cells. <i>European Journal of Immunology</i> , 2009 , 39, 3239-50	6.1	70
48	species are potent drivers of colonic T cell responses in homeostasis and inflammation. <i>Science Immunology</i> , 2017 , 2,	28	69
47	TGF- β converts Th1 cells into Th17 cells through stimulation of Runx1 expression. <i>European Journal of Immunology</i> , 2015 , 45, 1010-8	6.1	68
46	Curcumin induces the tolerogenic dendritic cell that promotes differentiation of intestine-protective regulatory T cells. <i>European Journal of Immunology</i> , 2009 , 39, 3134-46	6.1	65
45	Cdcs1, a major colitogenic locus in mice, regulates innate and adaptive immune response to enteric bacterial antigens. <i>Gastroenterology</i> , 2005 , 129, 1473-84	13.3	64
44	Heritable susceptibility for colitis in mice induced by IL-10 deficiency. <i>Inflammatory Bowel Diseases</i> , 2000 , 6, 290-302	4.5	61
43	Effects of cholera toxin on macrophage production of co-stimulatory cytokines. <i>European Journal of Immunology</i> , 2001 , 31, 64-71	6.1	56
42	Heritable Susceptibility for Colitis in Mice Induced by IL-10 Deficiency. <i>Inflammatory Bowel Diseases</i> , 2000 , 6, 290-302	4.5	54
41	Downregulation of microRNA-107 in intestinal CD11c(+) myeloid cells in response to microbiota and proinflammatory cytokines increases IL-23p19 expression. <i>European Journal of Immunology</i> , 2014 , 44, 673-82	6.1	44
40	Biomarkers of Therapeutic Response in the IL-23 Pathway in Inflammatory Bowel Disease. <i>Clinical and Translational Gastroenterology</i> , 2012 , 3, e10	4.2	41
39	Generation of antigen-specific, Foxp3-expressing CD4+ regulatory T cells by inhibition of APC proteasome function. <i>Journal of Immunology</i> , 2005 , 174, 2787-95	5.3	40
38	Immune response versus mucosal tolerance to mucosally administered antigens. <i>Vaccine</i> , 2005 , 23, 1800-11	4.3	37
37	Enterorhabdus caecimuris sp. nov., a member of the family Coriobacteriaceae isolated from a mouse model of spontaneous colitis, and emended description of the genus Enterorhabdus Clavel et al. 2009. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010 , 60, 1527-1531	2.2	33

36	Understanding immune-microbial homeostasis in intestine. <i>Immunologic Research</i> , 2002 , 26, 87-94	4.3	33
35	Commensal A4 bacteria inhibit intestinal Th2-cell responses through induction of dendritic cell TGF- β production. <i>European Journal of Immunology</i> , 2016 , 46, 1162-7	6.1	32
34	Enhanced CBir1-specific innate and adaptive immune responses in Crohn's disease. <i>Inflammatory Bowel Diseases</i> , 2008 , 14, 1641-51	4.5	30
33	Human seroreactivity to gut microbiota antigens. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 136, 1378-86.e1-5	11.5	29
32	The C3H/HeJBir mouse model: a high susceptibility phenotype for colitis. <i>International Reviews of Immunology</i> , 2000 , 19, 63-75	4.6	27
31	Single-cell analyses of CD4+ T cells from alpha beta T cell receptor-transgenic mice: a distinct mucosal cytokine phenotype in the absence of transgene-specific antigen. <i>European Journal of Immunology</i> , 1997 , 27, 1774-81	6.1	23
30	Identification of an immunodominant T cell epitope on cholera toxin. <i>European Journal of Immunology</i> , 1996 , 26, 2587-94	6.1	23
29	Depletion of dietary aryl hydrocarbon receptor ligands alters microbiota composition and function. <i>Scientific Reports</i> , 2019 , 9, 14724	4.9	22
28	Animal models of intestinal inflammation: ineffective communication between coalition members. <i>Seminars in Immunopathology</i> , 2005 , 27, 233-47		22
27	Regulation of Toll-like receptor 5 gene expression and function on mucosal dendritic cells. <i>PLoS ONE</i> , 2012 , 7, e35918	3.7	20
26	Strong mucosal adjuvanticity of cholera toxin within lipid particles of a new multiple emulsion delivery system for oral immunization. <i>European Journal of Immunology</i> , 1997 , 27, 2720-5	6.1	18
25	<i>Akkermansia muciniphila</i> is permissive to arthritis in the K/BxN mouse model of arthritis. <i>Genes and Immunity</i> , 2019 , 20, 158-166	4.4	18
24	New developments in experimental models of inflammatory bowel disease. <i>Current Opinion in Gastroenterology</i> , 2004 , 20, 360-7	3	16
23	Molecular approaches to the role of the microbiota in inflammatory bowel disease. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1072, 39-51	6.5	15
22	Challenges in IBD Research: updating the scientific agendas. <i>Inflammatory Bowel Diseases</i> , 2003 , 9, 137-53	4.5	15
21	Oral tolerance in humans: failure to suppress an existing immune response by oral antigen administration. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1029, 299-309	6.5	14
20	Dysregulation of Systemic and Mucosal Humoral Responses to Microbial and Food Antigens as a Factor Contributing to Microbial Translocation and Chronic Inflammation in HIV-1 Infection. <i>PLoS Pathogens</i> , 2017 , 13, e1006087	7.6	14
19	Deletion of the Toll-Like Receptor 5 Gene Per Se Does Not Determine the Gut Microbiome Profile That Induces Metabolic Syndrome: Environment Trumps Genotype. <i>PLoS ONE</i> , 2016 , 11, e0150943	3.7	13

18	Selective Induction of Homeostatic Th17 Cells in the Murine Intestine by Cholera Toxin Interacting with the Microbiota. <i>Journal of Immunology</i> , 2017 , 199, 312-322	5.3	11
17	Challenges in IBD Research: Pragmatic Clinical Research. <i>Inflammatory Bowel Diseases</i> , 2019 , 25, S40-S47	4.5	11
16	Decreased Fecal Bacterial Diversity and Altered Microbiome in Children Colonized With <i>Clostridium difficile</i> . <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2019 , 68, 502-508	2.8	8
15	Human Microbiota Flagellins Drive Adaptive Immune Responses in Crohn's Disease. <i>Gastroenterology</i> , 2021 , 161, 522-535	6	13.3
14	CD4 T cell activation and concomitant mTOR metabolic inhibition can ablate microbiota-specific memory cells and prevent colitis. <i>Science Immunology</i> , 2020 , 5,	28	7
13	Microbiota: dual-faceted player in experimental colitis. <i>Gut Microbes</i> , 2010 , 1, 388-91	8.8	6
12	Gene disruption and immunity in experimental colitis. <i>Inflammatory Bowel Diseases</i> , 2004 , 10 Suppl 1, S25-8	4.5	6
11	Synchronization of mothers and offspring promotes tolerance and limits allergy. <i>JCI Insight</i> , 2020 , 5,	9.9	6
10	CBirTox is a selective antigen-specific agonist of the Treg-IgA-microbiota homeostatic pathway. <i>PLoS ONE</i> , 2017 , 12, e0181866	3.7	6
9	Advances in mucosal immunity. <i>Drugs</i> , 1997 , 54 Suppl 1, 13-4	12.1	3
8	ICOS ligand and IL-10 synergize to promote host-microbiota mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
7	Identification of <i>Prevotella Oral</i> as a possible target antigen in children with Enthesitis related arthritis. <i>Clinical Immunology</i> , 2020 , 216, 108463	9	2
6	Animal Models of Experimental IBD. <i>Inflammatory Bowel Diseases</i> , 2006 , 12, S5	4.5	2
5	Experimental mouse models of inflammatory bowel disease: new insights into pathogenic mechanisms 2003 , 67-99		2
4	Ulcerative colitis is characterized by a plasmablast-skewed humoral response associated with disease activity. <i>Nature Medicine</i> , 2022 ,	50.5	2
3	Immunologic disease of the gastrointestinal tract 2008 , 1099-1114		1
2	Alterations of T lymphocytes in inflammatory bowel diseases. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 579, 133-48	3.6	
1	Moms, babies, and bugs in immune development. <i>F1000Research</i> , 6 , 2141	3.6	

