Iain D C Fraser

List of Publications by Year
in descending order

80 papers	10,424 citations	81743 39 h-index	64668 79 g-index
95 all docs	95 docs citations	95 times ranked	21728 citing authors

#	Article	IF	Citations
1	Commensal-driven immune zonation of the liver promotes host defence. Nature, 2021, 589, 131-136.	13.7	141
2	Type I IFNs facilitate innate immune control of the opportunistic bacteria Burkholderia cenocepacia in the macrophage cytosol. PLoS Pathogens, 2021, 17, e1009395.	2.1	6
3	SIGNAL: A web-based iterative analysis platform integrating pathway and network approaches optimizes hit selection from genome-scale assays. Cell Systems, 2021, 12, 338-352.e5.	2.9	7
4	Age influences susceptibility of brain capillary endothelial cells to La Crosse virus infection and cell death. Journal of Neuroinflammation, 2021, 18, 125.	3.1	3
5	Species-Specific Endotoxin Stimulus Determines Toll-Like Receptor 4- and Caspase 11-Mediated Pathway Activation Characteristics. MSystems, 2021, 6, e0030621.	1.7	11
6	A genome-wide screen uncovers multiple roles for mitochondrial nucleoside diphosphate kinase D in inflammasome activation. Science Signaling, 2021, 14, .	1.6	13
7	Lipid regulation of NLRP3 inflammasome activity through organelle stress. Trends in Immunology, 2021, 42, 807-823.	2.9	19
8	Lentivirus-mediated Conditional Gene Expression. Bio-protocol, 2021, 11, e4205.	0.2	1
9	Single-tube genotyping for small insertion/deletion mutations: simultaneous identification of wild type, mutant and heterozygous alleles. Biology Methods and Protocols, 2020, 5, bpaa007.	1.0	3
10	A small sustained increase in NOD1 abundance promotes ligand-independent inflammatory and oncogene transcriptional responses. Science Signaling, 2020, 13, .	1.6	6
11	A Deep Learning Pipeline for Nucleus Segmentation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1248-1264.	1.1	11
12	Immune regulation by glucocorticoids can be linked to cell typeâ€“dependent transcriptional responses. Journal of Experimental Medicine, 2019, 216, 384-406.	4.2	130
13	The cAMP Pathway Amplifies Early MyD88-Dependent and Type I Interferon-Independent LPS-Induced Interleukin-10 Expression in Mouse Macrophages. Mediators of Inflammation, 2019, 2019, 1-12.	1.4	17
14	U2AF1 mutations induce oncogenic IRAK4 isoforms and activate innate immune pathways in myeloid malignancies. Nature Cell Biology, 2019, 21, 640-650.	4.6	165
15	NF-Î°B Signaling in Macrophages: Dynamics, Crosstalk, and Signal Integration. Frontiers in Immunology, 2019, 10, 705.	2.2	450
16	Multi-Omics Strategies Uncover Hostâ€“Pathogen Interactions. ACS Infectious Diseases, 2019, 5, 493-505.	1.8	39
17	IFN-mediated negative feedback supports bacteria class-specific macrophage inflammatory responses. ELife, 2019, 8, .	2.8	16
18	Measurement of NF-Î°B Activation in TLR-Activated Macrophages. Methods in Molecular Biology, 2018, 1714, 67-78.	0.4	29

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19	IFIT1 Exerts Opposing Regulatory Effects on the Inflammatory and Interferon Gene Programs in LPS-Activated Human Macrophages. Cell Reports, 2018, 25, 95-106.e6.	2.9	70
20	3-Aminobenzamide Prevents Concanavalin A-Induced Acute Hepatitis by an Anti-inflammatory and Anti-oxidative Mechanism. Digestive Diseases and Sciences, 2018, 63, 3382-3397.	1.1	9
21	Mass Spectrometry-based Structural Analysis and Systems Immunoproteomics Strategies for Deciphering the Host Response to Endotoxin. Journal of Molecular Biology, 2018, 430, 2641-2660.	2.0	21
22	Dual Roles for Ikaros in Regulation of Macrophage Chromatin State and Inflammatory Gene Expression. Journal of Immunology, 2018, 201, 757-771.	0.4	43
23	Targeted Proteomicsâ€Driven Computational Modeling of Macrophage Microbial Sensing Pathways. FASEB Journal, 2018, 32, .	0.2	0
24	Proteome and Secretome Analysis Reveals Differential Post-transcriptional Regulation of Toll-like Receptor Responses. Molecular and Cellular Proteomics, 2017, 16, S172-S186.	2.5	29
25	Genome-wide siRNA screen of genes regulating the LPS-induced NF-ÎºB and TNF-Î± responses in mouse macrophages. Scientific Data, 2017, 4, 170008.	2.4	7
26	Lipopolysaccharide-induced NF-ÎºB nuclear translocation is primarily dependent on MyD88, but TNFÎ± expression requires TRIF and MyD88. Scientific Reports, 2017, 7, 1428.	1.6	114
27	Enhanced Functional Genomic Screening Identifies Novel Mediators of Dual Leucine Zipper Kinase-Dependent Injury Signaling in Neurons. Neuron, 2017, 94, 1142-1154.e6.	3.8	118
28	Genome-wide siRNA screen of genes regulating the LPS-induced TNF-Î± response in human macrophages. Scientific Data, 2017, 4, 170007.	2.4	11
29	Systematic Investigation of Multi-TLR Sensing Identifies Regulators of Sustained Gene Activation in Macrophages. Cell Systems, 2017, 5, 25-37.e3.	2.9	48
30	Anti-Inflammatory Chromatinscape Suggests Alternative Mechanisms of Glucocorticoid Receptor Action. Immunity, 2017, 47, 298-309.e5.	6.6	126
31	Distinct NF-ÎºB and MAPK Activation Thresholds Uncouple Steady-State Microbe Sensing from Anti-pathogen Inflammatory Responses. Cell Systems, 2016, 2, 378-390.	2.9	97
32	An interactive web-based application for Comprehensive Analysis of RNAi-screen Data. Nature Communications, 2016, 7, 10578.	5.8	13
33	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
34	Activator of G-Protein Signaling 3â€"Induced Lysosomal Biogenesis Limits Macrophage Intracellular Bacterial Infection. Journal of Immunology, 2016, 196, 846-856.	0.4	31
35	Comprehensive RNAi-based screening of human and mouse TLR pathways identifies species-specific preferences in signaling protein use. Science Signaling, 2016, 9, ra3.	1.6	66
36	Assay Development for Image-Based Quantification of Intracellular Bacterial Replication and Analysis of the Innate Immune Response to Infection. Assay and Drug Development Technologies, 2015, 13, 515-528.	0.6	5

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37	Development of a cell system for siRNA screening of pathogen responses in human and mouse macrophages. Scientific Reports, 2015, 5, 9559.	1.6	21
38	Switching of the Relative Dominance Between Feedback Mechanisms in Lipopolysaccharide-Induced NF-Î°B Signaling. Science Signaling, 2014, 7, ra6.	1.6	108
39	<i>B</i><i>urkholderia cenocepacia</i>â€…J2315 escapes to the cytosol and actively subverts autophagy in human macrophages. Cellular Microbiology, 2014, 16, 378-395.	1.1	35
40	Investigating the role of protein Oâ€fucosyltransferase 1 in Tollâ€like receptor signaling (1004.6). FASEB Journal, 2014, 28, 1004.6.	0.2	0
41	Inflammatory monocytes regulate pathologic responses to commensals during acute gastrointestinal infection. Nature Medicine, 2013, 19, 713-721.	15.2	239
42	Ablation of the Regulatory IE1 Protein of Murine Cytomegalovirus Alters In Vivo Pro-inflammatory TNF-alpha Production during Acute Infection. PLoS Pathogens, 2012, 8, e1002901.	2.1	9
43	Host gene targets for novel influenza therapies elucidated by highâ€throughput RNA interference screens. FASEB Journal, 2012, 26, 1372-1386.	0.2	52
44	Systems Biology in Immunology: A Computational Modeling Perspective. Annual Review of Immunology, 2011, 29, 527-585.	9.5	167
45	Synergistic Ca2+ Responses by GÎ±i- and GÎ±q-coupled G-protein-coupled Receptors Require a Single PLCÎ² Isoform That Is Sensitive to Both GÎ²Î³ and GÎ±q. Journal of Biological Chemistry, 2011, 286, 942-951.	1.6	52
46	<i>Clostridium difficile</i> toxin B differentially affects GPCR-stimulated Ca2+ responses in macrophages: independent roles for Rho and PLA2. Journal of Leukocyte Biology, 2010, 87, 1041-1057.	1.5	3
47	Variability in G-Protein-Coupled Signaling Studied with Microfluidic Devices. Biophysical Journal, 2010, 99, 2414-2422.	0.2	27
48	Deciphering Signaling Outcomes from a System of Complex Networks. Science Signaling, 2009, 2, ra22.	1.6	36
49	Suppression of LPS-Induced TNF-Î± Production in Macrophages by cAMP Is Mediated by PKA-AKAP95-p105. Science Signaling, 2009, 2, ra28.	1.6	165
50	Multiscale modeling for biologists. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 4-14.	6.6	102
51	Navigating the network: signaling cross-talk in hematopoietic cells. Nature Immunology, 2009, 10, 327-331.	7.0	54
52	Signaling and Cross-talk by C5a and UDP in Macrophages Selectively Use PLCÎ²3 to Regulate Intracellular Free Calcium. Journal of Biological Chemistry, 2008, 283, 17351-17361.	1.6	41
53	Regulation of cAMP Responses by the G12/13 Pathway Converges on Adenylyl Cyclase VII. Journal of Biological Chemistry, 2008, 283, 23429-23439.	1.6	52
54	The Use of RNA Interference to Analyze Protein Phosphatase Function in Mammalian Cells. , 2007, 365, 261-286.		9

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55	The Alliance for Cellular Signaling Plasmid Collection. Molecular and Cellular Proteomics, 2007, 6, 413-424.	2.5	14
56	Use of a cAMP BRET Sensor to Characterize a Novel Regulation of cAMP by the Sphingosine 1-Phosphate/G13 Pathway. Journal of Biological Chemistry, 2007, 282, 10576-10584.	1.6	303
57	A versatile approach to multiple gene RNA interference using microRNA-based short hairpin RNAs. BMC Molecular Biology, 2007, 8, 98.	3.0	58
58	A single lentiviral vector platform for microRNA-based conditional RNA interference and coordinated transgene expression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13759-13764.	3.3	306
59	Silencing the expression of multiple GÂ-subunits eliminates signaling mediated by all four families of G proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9493-9498.	3.3	42
60	Analysis of C5a-mediated chemotaxis by lentiviral delivery of small interfering RNA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 488-493.	3.3	53
61	Overview of the Alliance for Cellular Signaling. Nature, 2002, 420, 703-706.	13.7	134
62	Navigating the signalling network in mouse cardiac myocytes. Nature, 2002, 420, 712-714.	13.7	81
63	Regulation of Membrane Targeting of the G Protein-coupled Receptor Kinase 2 by Protein Kinase A and Its Anchoring Protein AKAP79. Journal of Biological Chemistry, 2001, 276, 15192-15199.	1.6	146
64	Assembly of an A kinase-anchoring proteinâ€"Î² 2 -adrenergic receptor complex facilitates receptor phosphorylation and signaling. Current Biology, 2000, 10, 409-412.	1.8	213
65	Alternative Splicing Regulates the Subcellular Localization of a-Kinase Anchoring Protein 18 Isoforms. Journal of Cell Biology, 1999, 147, 1481-1492.	2.3	84
66	Regulation of NMDA Receptors by an Associated Phosphatase-Kinase Signaling Complex. Science, 1999, 285, 93-96.	6.0	483
67	Modulation of Ion Channels. Neuron, 1999, 23, 423-426.	3.8	97
68	Identification of cAMP-dependent protein kinase holoenzymes in preantral- and preovulatory-follicle-enriched ovaries, and their association with A-kinase-anchoring proteins. Biochemical Journal, 1999, 344, 613-623.	1.7	29
69	Identification of cAMP-dependent protein kinase holoenzymes in preantral- and preovulatory-follicle-enriched ovaries, and their association with A-kinase-anchoring proteins. Biochemical Journal, 1999, 344, 613.	1.7	20
70	Coordination of cAMP Signaling Events through PKA Anchoring. Advances in Pharmacology, 1999, 47, 175-207.	1.2	26
71	A novel lipid-anchored A-kinase Anchoring Protein facilitates cAMP-responsive membrane events. EMBO Journal, 1998, 17, 2261-2272.	3.5	256
72	Structureâ^'Activity Studies of the Regulatory Interaction of the 10 Kilodalton C-Terminal Fragment of Caldesmon with Actin and the Effect of Mutation of Caldesmon Residues 691â^'696â€. Biochemistry, 1998, 37, 2314-2326.	1.2	24

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73	Characterization of the functional properties of smooth muscle caldesmon domain 4a: evidence for an independent inhibitory actinâ€“tropomyosin binding domain. Biochemical Journal, 1998, 332, 395-401.	1.7	14
74	Mapping of contact sites in the caldesmonâ€“calmodulin complex. Biochemical Journal, 1997, 324, 255-262.	1.7	13
75	The Inhibitory Complex of Smooth Muscle Caldesmon with Actin and Tropomyosin Involves Three Interacting Segments of the C-Terminal Domain 4â€. Biochemistry, 1997, 36, 5483-5492.	1.2	23
76	A simple method for automatic tracking of actin filaments in the motility assay. Journal of Muscle Research and Cell Motility, 1996, 17, 497-506.	0.9	51
77	In Vitro Motility Analysis of Smooth Muscle Caldesmon Control of Actin-Tropomyosin Filament Movement. Journal of Biological Chemistry, 1995, 270, 19688-19693.	1.6	48
78	In Vitro Motility Analysis of Actin-Tropomyosin Regulation by Troponin and Calcium. Journal of Biological Chemistry, 1995, 270, 7836-7841.	1.6	97
79	Localization of phospholipid-binding sites of caldesmon. FEBS Letters, 1994, 342, 176-180.	1.3	10
80	Molecular characterisation and stage-specific expression of proliferating cell nuclear antigen (PCNA) from the malarial parasite,Plasmodium falciparum. Nucleic Acids Research, 1993, 21, 239-243.	6.5	44