Laurence M Macia

List of Publications by Year
in descending order

76 papers	8,965 citations	94433 37 h-index	79698 73 g-index
81 all docs	81 docs citations	81 times ranked	12905 citing authors

#	Article	IF	Citations
1	CXCR5/CXCL13 pathway, a key driver for migration of regulatory B10 cells, is defective in patients with rheumatoid arthritis. Rheumatology, 2022, 61, 2185-2196.	1.9	10
2	A randomized clinical trial to investigate the effect of dietary protein sources on periodontal health. Journal of Clinical Periodontology, 2022, 49, 388-400.	4.9	11
3	Glutamine promotes the generation of B10⁺cells via the mTOR/GSK3 pathway. European Journal of Immunology, 2022, 52, 418-430.	2.9	4
4	Impact of Dietary Fiber on West Nile Virus Infection. Frontiers in Immunology, 2022, 13, 784486.	4.8	6
5	PLX5622 Reduces Disease Severity in Lethal CNS Infection by Off-Target Inhibition of Peripheral Inflammatory Monocyte Production. Frontiers in Immunology, 2022, 13, 851556.	4.8	36
6	Your Regulatory T Cells Are What You Eat: How Diet and Gut Microbiota Affect Regulatory T Cell Development. Frontiers in Nutrition, 2022, 9, 878382.	3.7	12
7	How Changes in the Nutritional Landscape Shape Gut Immunometabolism. Nutrients, 2021, 13, 823.	4.1	14
8	Fiber Derived Microbial Metabolites Prevent Acute Kidney Injury Through G-Protein Coupled Receptors and HDAC Inhibition. Frontiers in Cell and Developmental Biology, 2021, 9, 648639.	3.7	26
9	Protocol for a pilot single-centre, parallel-arm, randomised controlled trial of dietary inulin to improve gut health in solid organ transplantation: the DIGEST study. BMJ Open, 2021, 11, e049184.	1.9	2
10	Gut-derived acetate promotes B10 cells with antiinflammatory effects. JCI Insight, 2021, 6, .	5.0	47
11	Impact of dietary carbohydrate type and proteinâ€“carbohydrate interaction on metabolic health. Nature Metabolism, 2021, 3, 810-828.	11.9	42
12	Dietary carbohydrate, particularly glucose, drives B cell lymphopoiesis and function. IScience, 2021, 24, 102835.	4.1	13
13	The maternal gut microbiome during pregnancy and offspring allergy and asthma. Journal of Allergy and Clinical Immunology, 2021, 148, 669-678.	2.9	55
14	Proteomic pathways to metabolic disease and type 2 diabetes in the pancreatic islet. IScience, 2021, 24, 103099.	4.1	12
15	Editorial: Modern Lifestyle and Health: How Changes in the Environment Impacts Immune Function and Physiology. Frontiers in Immunology, 2021, 12, 762166.	4.8	2
16	Host- and Microbiota-Derived Extracellular Vesicles, Immune Function, and Disease Development. International Journal of Molecular Sciences, 2020, 21, 107.	4.1	142
17	The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. Nanoscale Advances, 2020, 2, 4798-4812.	4.6	17
18	Dietary Fiber Protects against Diabetic Nephropathy through Short-Chain Fatty Acidâ€“Mediated Activation of G Proteinâ€“Coupled Receptors GPR43 and GPR109A. Journal of the American Society of Nephrology: JASN, 2020, 31, 1267-1281.	6.1	153

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19	Gut Microbial Metabolites Induce Donor-Specific Tolerance of Kidney Allografts through Induction of T Regulatory Cells by Short-Chain Fatty Acids. Journal of the American Society of Nephrology: JASN, 2020, 31, 1445-1461.	6.1	50
20	Immune Modulation of Monocytes Dampens the IL-17+ Î³Î´ T Cell Response and Associated Psoriasis Pathology in Mice. Journal of Investigative Dermatology, 2020, 140, 2398-2407.e1.	0.7	5
21	Maternal carriage of Prevotella during pregnancy associates with protection against food allergy in the offspring. Nature Communications, 2020, 11, 1452.	12.8	84
22	SAT-160 DIETARY FIBRE AND BACTERIAL SCFA MODULATE RENAL INFLAMMATION INÂDIABETIC NEPHROPATHY THROUGH ACTIVATION OF G-PROTEIN COUPLED RECEPTORS GPR43 AND GPR109A. Kidney International Reports, 2020, 5, S68-S69.	0.8	2
23	Intestinal microbiota predict response and toxicities during anti-PD-1/anti-CTLA-4 immunotherapy. Pathology, 2020, 52, S127.	0.6	2
24	Abstract 5734: Gut microbiota predicts response and toxicity with neoadjuvant immunotherapy. , 2020, , .		6
25	OP0131â€...GUT DERIVED ACETATE PROMOTES REGULATORY B CELLS WITH ANTI-INFLAMMATORY EFFECTS. Annals of the Rheumatic Diseases, 2020, 79, 85.2-85.	0.9	1
26	HIGH-FIBRE DIET REDUCES TRANSPLANT-ASSOCIATED DYSBIOSIS AND IMPROVES RENAL ALLOGRAFT SURVIVAL IN A MURINE MODEL OF KIDNEY ALLOGRAFT REJECTION. Transplantation, 2020, 104, S188-S189.	1.0	0
27	Decreased maternal serum acetate and impaired fetal thymic and regulatory T cell development in preeclampsia. Nature Communications, 2019, 10, 3031.	12.8	91
28	Dysfunctional microbiota with reduced capacity to produce butyrate as a basis for allergic diseases. Journal of Allergy and Clinical Immunology, 2019, 144, 1513-1515.	2.9	13
29	SUN-303 DIETARY MANIPULATION OF THE GUT MICROBIOTA REDUCES DIABETIC KIDNEY INJURY IN MICE. Kidney International Reports, 2019, 4, S285-S286.	0.8	0
30	Impact of the Food Additive Titanium Dioxide (E171) on Gut Microbiota-Host Interaction. Frontiers in Nutrition, 2019, 6, 57.	3.7	90
31	The nutrition for healthy living study: A randomised clinical trial assessing the effect of protein sources on healthy ageing. Nutrition and Healthy Aging, 2019, 5, 43-51.	1.1	2
32	Ingestion of resistant starch by mice markedly increases microbiomeâ€derived metabolites. FASEB Journal, 2019, 33, 8033-8042.	0.5	39
33	Fatty Acids, Gut Bacteria, and Immune Cell Function. , 2019, , 151-164.		8
34	O002â€...Targeting IL-10 producing B cells in rheumatoid arthritis and primary sjÃ–gren syndrome is promising to increase regulatory T cells but not to decrease pro-inflammatory T cells. , 2018, , .		0
35	The nutritional geometry of liver disease including non-alcoholic fatty liver disease. Journal of Hepatology, 2018, 68, 316-325.	3.7	35
36	High Fibre Diet Induces Donor Specific Tolerance of Kidney Allografts through SCFA Induction of Tregs. Transplantation, 2018, 102, S332-S333.	1.0	0

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37	IL-10 Producing B Cells Ability to Induce Regulatory T Cells Is Maintained in Rheumatoid Arthritis. Frontiers in Immunology, 2018, 9, 961.	4.8	52
38	Diet-Derived Short Chain Fatty Acids Stimulate Intestinal Epithelial Cells To Induce Mucosal Tolerogenic Dendritic Cells. Journal of Immunology, 2017, 198, 2172-2181.	0.8	172
39	Metabolite-Sensing G Proteinâ€"Coupled Receptorsâ€"Facilitators of Diet-Related Immune Regulation. Annual Review of Immunology, 2017, 35, 371-402.	21.8	235
40	Gut microbial metabolites limit the frequency of autoimmune T cells and protect against type 1 diabetes. Nature Immunology, 2017, 18, 552-562.	14.5	551
41	The maternal microbiome during pregnancy and allergic disease in the offspring. Seminars in Immunopathology, 2017, 39, 669-675.	6.1	80
42	The nutritionâ€gut microbiomeâ€physiology axis and allergic diseases. Immunological Reviews, 2017, 278, 277-295.	6.0	223
43	Dietary fiber and the short-chain fatty acid acetate promote resolution of neutrophilic inflammation in a model of gout in mice. Journal of Leukocyte Biology, 2017, 101, 275-284.	3.3	104
44	Detrimental Impact of Microbiota-Accessible Carbohydrate-Deprived Diet on Gut and Immune Homeostasis: An Overview. Frontiers in Immunology, 2017, 8, 548.	4.8	114
45	The Role of Follicular Helper T Cell Molecules and Environmental Influences in Autoantibody Production and Progression to Inflammatory Arthritis in Mice. Arthritis and Rheumatology, 2016, 68, 1026-1038.	5.6	26
46	Avenues to autoimmune arthritis triggered by diverse remote inflammatory challenges. Journal of Autoimmunity, 2016, 73, 120-129.	6.5	3
47	Genetic Coding Variant in GPR65 Alters Lysosomal pH and Links Lysosomal Dysfunction with Colitis Risk. Immunity, 2016, 44, 1392-1405.	14.3	106
48	Dietary Fiber and Bacterial SCFA Enhance Oral Tolerance and Protect against Food Allergy through Diverse Cellular Pathways. Cell Reports, 2016, 15, 2809-2824.	6.4	489
49	Serum Levels of Human MIC-1/GDF15 Vary in a Diurnal Pattern, Do Not Display a Profile Suggestive of a Satiety Factor and Are Related to BMI. PLoS ONE, 2015, 10, e0133362.	2.5	66
50	Evidence that asthma is a developmental origin disease influenced by maternal diet and bacterial metabolites. Nature Communications, 2015, 6, 7320.	12.8	683
51	A Role for Gut Microbiota and the Metaboliteâ€Sensing Receptor GPR43 in a Murine Model of Gout. Arthritis and Rheumatology, 2015, 67, 1646-1656.	5.6	192
52	The impact of diet on asthma and allergic diseases. Nature Reviews Immunology, 2015, 15, 308-322.	22.7	201
53	Metabolite-sensing receptors GPR43 and GPR109A facilitate dietary fibre-induced gut homeostasis through regulation of the inflammasome. Nature Communications, 2015, 6, 6734.	12.8	983
54	GPR43 â€" A Prototypic Metabolite Sensor Linking Metabolic and Inflammatory Diseases. Trends in Endocrinology and Metabolism, 2015, 26, 511-512.	7.1	28

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55	Pancreatic Polypeptide Controls Energy Homeostasis via Npy6r Signaling in the Suprachiasmatic Nucleus in Mice. Cell Metabolism, 2014, 19, 58-72.	16.2	44
56	The Role of Short-Chain Fatty Acids in Health and Disease. Advances in Immunology, 2014, 121, 91-119.	2.2	1,587
57	Diet, Metabolites, and â€œWestern-Lifestyleâ€• Inflammatory Diseases. Immunity, 2014, 40, 833-842.	14.3	736
58	Inflammation and Lymphopenia Trigger Autoimmunity by Suppression of IL-2â€"Controlled Regulatory T Cell and Increase of IL-21â€"Mediated Effector T Cell Expansion. Journal of Immunology, 2014, 193, 4845-4858.	0.8	17
59	Double deletion of orexigenic neuropeptide Y and dynorphin results in paradoxical obesity in mice. Neuropeptides, 2014, 48, 143-151.	2.2	4
60	TGF-b Superfamily Cytokine MIC-1/GDF15 Is a Physiological Appetite and Body Weight Regulator. PLoS ONE, 2013, 8, e55174.	2.5	142
61	Neuropeptide Y1 Receptor in Immune Cells Regulates Inflammation and Insulin Resistance Associated With Diet-Induced Obesity. Diabetes, 2012, 61, 3228-3238.	0.6	36
62	Macrophage inhibitory cytokine-1 (MIC-1/GDF15) and mortality in end-stage renal disease. Nephrology Dialysis Transplantation, 2012, 27, 70-75.	0.7	96
63	Y1 and Y5 Receptors Are Both Required for the Regulation of Food Intake and Energy Homeostasis in Mice. PLoS ONE, 2012, 7, e40191.	2.5	74
64	Microbial influences on epithelial integrity and immune function as a basis for inflammatory diseases. Immunological Reviews, 2012, 245, 164-176.	6.0	186
65	Macrophage Inhibitory Cytokine 1 (MIC-1/GDF15) Decreases Food Intake, Body Weight and Improves Glucose Tolerance in Mice on Normal & Obesogenic Diets. PLoS ONE, 2012, 7, e34868.	2.5	156
66	Interleukin-7 Regulates Adipose Tissue Mass and Insulin Sensitivity in High-Fat Diet-Fed Mice through Lymphocyte-Dependent and Independent Mechanisms. PLoS ONE, 2012, 7, e40351.	2.5	29
67	Peripheralâ€Specific Y2 Receptor Knockdown Protects Mice From Highâ€Fat Dietâ€Induced Obesity. Obesity, 2011, 19, 2137-2148.	3.0	55
68	Y1 signalling has a critical role in allergic airway inflammation. Immunology and Cell Biology, 2011, 89, 882-888.	2.3	30
69	Peripheral neuropeptide Y Y1 receptors regulate lipid oxidation and fat accretion. International Journal of Obesity, 2010, 34, 357-373.	3.4	65
70	Interleukin-7, a New Cytokine Targeting the Mouse Hypothalamic Arcuate Nucleus: Role in Body Weight and Food Intake Regulation. PLoS ONE, 2010, 5, e9953.	2.5	20
71	NPY Neuron-Specific Y2 Receptors Regulate Adipose Tissue and Trabecular Bone but Not Cortical Bone Homeostasis in Mice. PLoS ONE, 2010, 5, e11361.	2.5	62
72	Critical Role of Arcuate Y4 Receptors and the Melanocortin System in Pancreatic Polypeptide-Induced Reduction in Food Intake in Mice. PLoS ONE, 2009, 4, e8488.	2.5	59

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73	Influence of High-Fat Feeding on Both Naive and Antigen-Experienced T-Cell Immune Response in DO10.11 Mice. Scandinavian Journal of Immunology, 2006, 64, 457-466.	2.7	51
74	Genes involved in obesity: Adipocytes, brain and microflora. Genes and Nutrition, 2006, 1, 189-212.	2.5	6
75	Impairment of Dendritic Cell Functionality and Steady-State Number in Obese Mice. Journal of Immunology, 2006, 177, 5997-6006.	0.8	119
76	HOST GLUCOSE METABOLISM MEDIATES T4 AND IL-7 ACTION ON SCHISTOSOMA MANSONI DEVELOPMENT. Journal of Parasitology, 2005, 91, 737-744.	0.7	18