

David T Breault

List of Publications by Year in descending order

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74
papers

5,029
citations

172207

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98622

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docs citations

86
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7248
citing authors

#	ARTICLE	IF	CITATIONS
1	Tacrolimus-binding protein FKBP8 directs myosin light chain kinase-dependent barrier regulation and is a potential therapeutic target in Crohn's disease. <i>Gut</i> , 2023, 72, 870-881.	6.1	10
2	Robust differentiation of human enteroendocrine cells from intestinal stem cells. <i>Nature Communications</i> , 2022, 13, 261.	5.8	19
3	Triple-Decker Sandwich Cultures of Intestinal Organoids for Long-Term Live Imaging, Uniform Perturbation, and Statistical Sampling. <i>Current Protocols</i> , 2022, 2, e330.	1.3	2
4	Establishment of physiologically relevant oxygen gradients in microfluidic organ chips. <i>Lab on A Chip</i> , 2022, 22, 1584-1593.	3.1	18
5	A non-dividing cell population with high pyruvate dehydrogenase kinase activity regulates metabolic heterogeneity and tumorigenesis in the intestine. <i>Nature Communications</i> , 2022, 13, 1503.	5.8	22
6	Emerging enterococcus pore-forming toxins with MHC/HLA-I as receptors. <i>Cell</i> , 2022, 185, 1157-1171.e22.	13.5	22
7	Nutritional deficiency in an intestine-on-a-chip recapitulates injury hallmarks associated with environmental enteric dysfunction. <i>Nature Biomedical Engineering</i> , 2022, 6, 1236-1247.	11.6	20
8	Rapid Prototyping of Multilayer Microphysiological Systems. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2949-2963.	2.6	28
9	Primary Human Colonic Mucosal Barrier Crosstalk with Super Oxygen-Sensitive <i>Faecalibacterium prausnitzii</i> in Continuous Culture. <i>Med</i> , 2021, 2, 74-98.e9.	2.2	55
10	Telomerase expression marks transitional growth-associated skeletal progenitor/stem cells. <i>Stem Cells</i> , 2021, 39, 296-305.	1.4	7
11	The Adrenal Cortex and Its Disorders. , 2021, , 425-490.		7
12	Wnt2b Is Essential for Adrenocortical Progenitor Cell Fate and Zona Glomerulosa Identity in Vivo. <i>Journal of the Endocrine Society</i> , 2021, 5, A74-A75.	0.1	0
13	Calcineurin-NFATc4 Pathway Is Activated Upon K ⁺ -stimulation of Adrenal Aldosterone Production. <i>Journal of the Endocrine Society</i> , 2021, 5, A805-A806.	0.1	0
14	Aldosterone Insufficiency Contributes to Calcineurin Inhibitor-Induced Hyperkalemia. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
15	Rosette morphology in zona glomerulosa formation and function. <i>Molecular and Cellular Endocrinology</i> , 2021, 530, 111287.	1.6	4
16	Coculture of primary human colon monolayer with human gut bacteria. <i>Nature Protocols</i> , 2021, 16, 3874-3900.	5.5	28
17	False-positive very long-chain fatty acids in a case of autoimmune adrenal insufficiency. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2021, 34, 517-520.	0.4	1
18	<i>Yersinia pseudotuberculosis</i> YopE prevents uptake by M cells and instigates M cell extrusion in human ileal enteroid-derived monolayers. <i>Gut Microbes</i> , 2021, 13, 1988390.	4.3	15

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19	Human Colon-on-a-Chip Enables Continuous In Vitro Analysis of Colon Mucus Layer Accumulation and Physiology. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 9, 507-526.	2.3	140
20	Organoid culture system for patient-derived lung metastatic osteosarcoma. <i>Medical Oncology</i> , 2020, 37, 105.	1.2	13
21	Cholinergic Activation of Primary Human Derived Intestinal Epithelium Does Not Ameliorate TNF- α Induced Injury. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 487-505.	1.0	3
22	Beta-Catenin Causes Adrenal Hyperplasia by Blocking Zonal Transdifferentiation. <i>Cell Reports</i> , 2020, 31, 107524.	2.9	47
23	Fully synthetic matrices for in vitro culture of primary human intestinal enteroids and endometrial organoids. <i>Biomaterials</i> , 2020, 254, 120125.	5.7	106
24	Wnt/ β -catenin activation cooperates with loss of p53 to cause adrenocortical carcinoma in mice. <i>Oncogene</i> , 2020, 39, 5282-5291.	2.6	30
25	β -Catenin and FGFR2 regulate postnatal rosette-based adrenocortical morphogenesis. <i>Nature Communications</i> , 2020, 11, 1680.	5.8	31
26	Angiotensin II induces coordinated calcium bursts in aldosterone-producing adrenal rosettes. <i>Nature Communications</i> , 2020, 11, 1679.	5.8	20
27	Intestinal enteroids recapitulate the effects of short-chain fatty acids on the intestinal epithelium. <i>PLoS ONE</i> , 2020, 15, e0230231.	1.1	50
28	MON-726 Modifications of FOXO1 and GATA4-NKX2.5 Signaling Induce Human Enteroendocrine Differentiation. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.1	0
29	Sex Differences in Adrenal Bmal1 Deletion-Induced Augmentation of Glucocorticoid Responses to Stress and ACTH in Mice. <i>Endocrinology</i> , 2019, 160, 2215-2229.	1.4	8
30	A ZNRF3-dependent Wnt/ β -catenin signaling gradient is required for adrenal homeostasis. <i>Genes and Development</i> , 2019, 33, 209-220.	2.7	74
31	Sulfated glycosaminoglycans and low-density lipoprotein receptor contribute to <i>Clostridium difficile</i> toxin A entry into cells. <i>Nature Microbiology</i> , 2019, 4, 1760-1769.	5.9	71
32	A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. <i>Nature Biomedical Engineering</i> , 2019, 3, 520-531.	11.6	487
33	Species-specific enhancement of enterohemorrhagic <i>E. coli</i> pathogenesis mediated by microbiome metabolites. <i>Microbiome</i> , 2019, 7, 43.	4.9	102
34	Adrenal Tissue-Specific Deletion of TASK Channels Causes Aldosterone-Driven Angiotensin II-Independent Hypertension. <i>Hypertension</i> , 2019, 73, 407-414.	1.3	16
35	Telomerase Reverse Transcriptase Expression in Mouse Endometrium During Reepithelialization and Regeneration in a Menses-Like Model. <i>Stem Cells and Development</i> , 2019, 28, 1-12.	1.1	8
36	Chemogenetic activation of adrenocortical Gq signaling causes hyperaldosteronism and disrupts functional zonation. <i>Journal of Clinical Investigation</i> , 2019, 130, 83-93.	3.9	16

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37	SAT-363 Deletion of TASK Channels Selectively from the Zona Glomerulosa Causes Mild Angiotensin II-Independent Hyperaldosteronism with Elevated Blood Pressure in Mice. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.1	0
38	Move Over Caco-2 Cells: Human-Induced Organoids Meet Gut-on-a-Chip. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 634-635.	2.3	11
39	Adrenocortical development: Lessons from mouse models. <i>Annales D'Endocrinologie</i> , 2018, 79, 95-97.	0.6	8
40	Telomerase Mediates Lymphocyte Proliferation but Not the Atherosclerosis-Suppressive Potential of Regulatory T-Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1283-1296.	1.1	26
41	Development of a primary human Small Intestine-on-a-Chip using biopsy-derived organoids. <i>Scientific Reports</i> , 2018, 8, 2871.	1.6	523
42	JAK/STAT-1 Signaling Is Required for Reserve Intestinal Stem Cell Activation during Intestinal Regeneration Following Acute Inflammation. <i>Stem Cell Reports</i> , 2018, 10, 17-26.	2.3	41
43	A case report of methadone-associated hypoglycemia in an 11-month-old male. <i>Clinical Toxicology</i> , 2018, 56, 74-76.	0.8	18
44	Adrenal Zonation and Development. <i>Contemporary Endocrinology</i> , 2018, , 3-13.	0.3	1
45	Bone Marrow Stem Cells Do Not Contribute to Endometrial Cell Lineages in Chimeric Mouse Models. <i>Stem Cells</i> , 2018, 36, 91-102.	1.4	46
46	PKA signaling drives reticularis differentiation and sexually dimorphic adrenal cortex renewal. <i>JCI Insight</i> , 2018, 3, .	2.3	76
47	Early Identification of Primary Hypothyroidism in Neonates Exposed to Intralymphatic Iodinated Contrast: A Case Series. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3585-3588.	1.8	8
48	The Adrenal Clock Prevents Aberrant Light-Induced Alterations in Circadian Glucocorticoid Rhythms. <i>Endocrinology</i> , 2018, 159, 3950-3964.	1.4	23
49	High-dimensional immune phenotyping and transcriptional analyses reveal robust recovery of viable human immune and epithelial cells from frozen gastrointestinal tissue. <i>Mucosal Immunology</i> , 2018, 11, 1684-1693.	2.7	38
50	Neonatal-Onset Chronic Diarrhea Caused by Homozygous Nonsense WNT2B Mutations. <i>American Journal of Human Genetics</i> , 2018, 103, 131-137.	2.6	16
51	The colonic epithelium plays an active role in promoting colitis by shaping the tissue cytokine profile. <i>PLoS Biology</i> , 2018, 16, e2002417.	2.6	47
52	An organoid model to study the effect of bacterial metabolites on the intestinal epithelium. <i>FASEB Journal</i> , 2018, 32, lb358.	0.2	1
53	Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. <i>Cell Stem Cell</i> , 2017, 21, 78-90.e6.	5.2	280
54	Regulation of zonation and homeostasis in the adrenal cortex. <i>Molecular and Cellular Endocrinology</i> , 2017, 441, 146-155.	1.6	55

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55	Role of voltage-gated calcium channels in the regulation of aldosterone production from zona glomerulosa cells of the adrenal cortex. <i>Journal of Physiology</i> , 2016, 594, 5851-5860.	1.3	31
56	Frizzled proteins are colonic epithelial receptors for <i>C. difficile</i> toxin B. <i>Nature</i> , 2016, 538, 350-355.	13.7	229
57	CellMapper: rapid and accurate inference of gene expression in difficult-to-isolate cell types. <i>Genome Biology</i> , 2016, 17, 201.	3.8	24
58	An enduring role for quiescent stem cells. <i>Developmental Dynamics</i> , 2016, 245, 718-726.	0.8	17
59	Factors regulating quiescent stem cells: insights from the intestine and other self-renewing tissues. <i>Journal of Physiology</i> , 2016, 594, 4805-4813.	1.3	8
60	The mouse endometrium contains epithelial, endothelial and leucocyte populations expressing the stem cell marker telomerase reverse transcriptase. <i>Molecular Human Reproduction</i> , 2016, 22, 272-284.	1.3	23
61	Reprogrammed Stomach Tissue as a Renewable Source of Functional β^2 Cells for Blood Glucose Regulation. <i>Cell Stem Cell</i> , 2016, 18, 410-421.	5.2	119
62	Dormant Intestinal Stem Cells Are Regulated by PTEN and Nutritional Status. <i>Cell Reports</i> , 2015, 13, 2403-2411.	2.9	80
63	Distinct Processes and Transcriptional Targets Underlie CDX2 Requirements in Intestinal Stem Cells and Differentiated Villus Cells. <i>Stem Cell Reports</i> , 2015, 5, 673-681.	2.3	35
64	Circulating IGF-I and IGFBP3 Levels Control Human Colonic Stem Cell Function and Are Disrupted in Diabetic Enteropathy. <i>Cell Stem Cell</i> , 2015, 17, 486-498.	5.2	60
65	Oncogenic K-Ras promotes proliferation in quiescent intestinal stem cells. <i>Stem Cell Research</i> , 2015, 15, 165-171.	0.3	6
66	Atorvastatin induces T cell proliferation by a telomerase reverse transcriptase (TERT) mediated mechanism. <i>Atherosclerosis</i> , 2014, 236, 312-320.	0.4	42
67	Adrenocortical Zonation Results from Lineage Conversion of Differentiated Zona Glomerulosa Cells. <i>Developmental Cell</i> , 2013, 26, 666-673.	3.1	149
68	Telomerase expression in the mammalian heart. <i>FASEB Journal</i> , 2012, 26, 4832-4840.	0.2	63
69	Tales From the Crypt: The Expanding Role of Slow Cycling Intestinal Stem Cells. <i>Cell Stem Cell</i> , 2012, 10, 2-4.	5.2	29
70	Mouse telomerase reverse transcriptase (mTert) expression marks slowly cycling intestinal stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 179-184.	3.3	461
71	Characterization and Fate of Telomerase-expressing Epithelia during Kidney Repair. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 2256-2265.	3.0	31
72	Slowly cycling versus rapidly cycling intestinal stem cells: Distinct roles or redundancy. <i>Cell Cycle</i> , 2011, 10, 723-724.	1.3	6

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73	Defining Molecular Cornerstones during Fibroblast to iPS Cell Reprogramming in Mouse. <i>Cell Stem Cell</i> , 2008, 2, 230-240.	5.2	764
74	Generation of <i>mTert</i> -GFP mice as a model to identify and study tissue progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10420-10425.	3.3	121