# David T Breault

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2587292/publications.pdf

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|---|---|---|---|
| 74<br>papers | 5,029<br>citations | 172207<br>29<br>h-index | 98622<br>67<br>g-index |
| 86<br>all docs | 86<br>docs citations | 86<br>times ranked | 7248<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Defining Molecular Cornerstones during Fibroblast to iPS Cell Reprogramming in Mouse. Cell Stem Cell, 2008, 2, 230-240. | 5.2 | 764 |
| 2 | Development of a primary human Small Intestine-on-a-Chip using biopsy-derived organoids. Scientific Reports, 2018, 8, 2871. | 1.6 | 523 |
| 3 | A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. Nature Biomedical Engineering, 2019, 3, 520-531. | 11.6 | 487 |
| 4 | Mouse telomerase reverse transcriptase (mTert) expression marks slowly cycling intestinal stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 179-184. | 3.3 | 461 |
| 5 | Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. Cell Stem Cell, 2017, 21, 78-90.e6. | 5.2 | 280 |
| 6 | Frizzled proteins are colonic epithelial receptors for C. difficile toxin B. Nature, 2016, 538, 350-355. | 13.7 | 229 |
| 7 | Adrenocortical Zonation Results from Lineage Conversion of Differentiated Zona Glomerulosa Cells. Developmental Cell, 2013, 26, 666-673. | 3.1 | 149 |
| 8 | Human Colon-on-a-Chip Enables Continuous InÂVitro Analysis of Colon Mucus Layer Accumulation and Physiology. Cellular and Molecular Gastroenterology and Hepatology, 2020, 9, 507-526. | 2.3 | 140 |
| 9 | Generation ofmTert-GFP mice as a model to identify and study tissue progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10420-10425. | 3.3 | 121 |
| 10 | Reprogrammed Stomach Tissue as a Renewable Source of Functional Î² Cells for Blood Glucose Regulation. Cell Stem Cell, 2016, 18, 410-421. | 5.2 | 119 |
| 11 | Fully synthetic matrices for in vitro culture of primary human intestinal enteroids and endometrial organoids. Biomaterials, 2020, 254, 120125. | 5.7 | 106 |
| 12 | Species-specific enhancement of enterohemorrhagic E. coli pathogenesis mediated by microbiome metabolites. Microbiome, 2019, 7, 43. | 4.9 | 102 |
| 13 | Dormant Intestinal Stem Cells Are Regulated by PTEN and Nutritional Status. Cell Reports, 2015, 13, 2403-2411. | 2.9 | 80 |
| 14 | PKA signaling drives reticularis differentiation and sexually dimorphic adrenal cortex renewal. JCI Insight, 2018, 3, . | 2.3 | 76 |
| 15 | A ZNRF3-dependent Wnt/Î²-catenin signaling gradient is required for adrenal homeostasis. Genes and Development, 2019, 33, 209-220. | 2.7 | 74 |
| 16 | Sulfated glycosaminoglycans and low-density lipoprotein receptor contribute to Clostridium difficile toxin A entry into cells. Nature Microbiology, 2019, 4, 1760-1769. | 5.9 | 71 |
| 17 | Telomerase expression in the mammalian heart. FASEB Journal, 2012, 26, 4832-4840. | 0.2 | 63 |
| 18 | Circulating IGF-I and IGFBP3 Levels Control Human Colonic Stem Cell Function and Are Disrupted in Diabetic Enteropathy. Cell Stem Cell, 2015, 17, 486-498. | 5.2 | 60 |

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|---|---|---|---|
| 19 | Regulation of zonation and homeostasis in the adrenal cortex. Molecular and Cellular Endocrinology, 2017, 441, 146-155. | 1.6 | 55 |
| 20 | Primary Human Colonic Mucosal Barrier Crosstalk with Super Oxygen-Sensitive Faecalibacterium prausnitzii in Continuous Culture. Med, 2021, 2, 74-98.e9. | 2.2 | 55 |
| 21 | Intestinal enteroids recapitulate the effects of short-chain fatty acids on the intestinal epithelium. PLoS ONE, 2020, 15, e0230231. | 1.1 | 50 |
| 22 | The colonic epithelium plays an active role in promoting colitis by shaping the tissue cytokine profile. PLoS Biology, 2018, 16, e2002417. | 2.6 | 47 |
| 23 | Beta-Catenin Causes Adrenal Hyperplasia by Blocking Zonal Transdifferentiation. Cell Reports, 2020, 31, 107524. | 2.9 | 47 |
| 24 | Bone Marrow Stem Cells Do Not Contribute to Endometrial Cell Lineages in Chimeric Mouse Models. Stem Cells, 2018, 36, 91-102. | 1.4 | 46 |
| 25 | Atorvastatin induces T cell proliferation by a telomerase reverse transcriptase (TERT) mediated mechanism. Atherosclerosis, 2014, 236, 312-320. | 0.4 | 42 |
| 26 | JAK/STAT-1 Signaling Is Required for Reserve Intestinal Stem Cell Activation during Intestinal Regeneration Following Acute Inflammation. Stem Cell Reports, 2018, 10, 17-26. | 2.3 | 41 |
| 27 | High-dimensional immune phenotyping and transcriptional analyses reveal robust recovery of viable human immune and epithelial cells from frozen gastrointestinal tissue. Mucosal Immunology, 2018, 11, 1684-1693. | 2.7 | 38 |
| 28 | Distinct Processes and Transcriptional Targets Underlie CDX2 Requirements in Intestinal Stem Cells and Differentiated Villus Cells. Stem Cell Reports, 2015, 5, 673-681. | 2.3 | 35 |
| 29 | Characterization and Fate of Telomerase-expressing Epithelia during Kidney Repair. Journal of the American Society of Nephrology: JASN, 2011, 22, 2256-2265. | 3.0 | 31 |
| 30 | Role of voltageâ€gated calcium channels in the regulation of aldosterone production from zona glomerulosa cells of the adrenal cortex. Journal of Physiology, 2016, 594, 5851-5860. | 1.3 | 31 |
| 31 | Î²-Catenin and FGFR2 regulate postnatal rosette-based adrenocortical morphogenesis. Nature Communications, 2020, 11, 1680. | 5.8 | 31 |
| 32 | Wnt/Î²-catenin activation cooperates with loss of p53 to cause adrenocortical carcinoma in mice. Oncogene, 2020, 39, 5282-5291. | 2.6 | 30 |
| 33 | Tales From the Crypt: The Expanding Role of Slow Cycling Intestinal Stem Cells. Cell Stem Cell, 2012, 10, 2-4. | 5.2 | 29 |
| 34 | Rapid Prototyping of Multilayer Microphysiological Systems. ACS Biomaterials Science and Engineering, 2021, 7, 2949-2963. | 2.6 | 28 |
| 35 | Coculture of primary human colon monolayer with human gut bacteria. Nature Protocols, 2021, 16, 3874-3900. | 5.5 | 28 |
| 36 | Telomerase Mediates Lymphocyte Proliferation but Not the Atherosclerosis-Suppressive Potential of Regulatory T-Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1283-1296. | 1.1 | 26 |

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|---|---|---|---|
| 37 | CellMapper: rapid and accurate inference of gene expression in difficult-to-isolate cell types. Genome Biology, 2016, 17, 201. | 3.8 | 24 |
| 38 | The mouse endometrium contains epithelial, endothelial and leucocyte populations expressing the stem cell marker telomerase reverse transcriptase. Molecular Human Reproduction, 2016, 22, 272-284. | 1.3 | 23 |
| 39 | The Adrenal Clock Prevents Aberrant Light-Induced Alterations in Circadian Glucocorticoid Rhythms. Endocrinology, 2018, 159, 3950-3964. | 1.4 | 23 |
| 40 | A non-dividing cell population with high pyruvate dehydrogenase kinase activity regulates metabolic heterogeneity and tumorigenesis in the intestine. Nature Communications, 2022, 13, 1503. | 5.8 | 22 |
| 41 | Emerging enterococcus pore-forming toxins with MHC/HLA-I as receptors. Cell, 2022, 185, 1157-1171.e22. | 13.5 | 22 |
| 42 | Angiotensin II induces coordinated calcium bursts in aldosterone-producing adrenal rosettes. Nature Communications, 2020, 11, 1679. | 5.8 | 20 |
| 43 | Nutritional deficiency in an intestine-on-a-chip recapitulates injury hallmarks associated with environmental enteric dysfunction. Nature Biomedical Engineering, 2022, 6, 1236-1247. | 11.6 | 20 |
| 44 | Robust differentiation of human enteroendocrine cells from intestinal stem cells. Nature Communications, 2022, 13, 261. | 5.8 | 19 |
| 45 | A case report of methadone-associated hypoglycemia in an 11-month-old male. Clinical Toxicology, 2018, 56, 74-76. | 0.8 | 18 |
| 46 | Establishment of physiologically relevant oxygen gradients in microfluidic organ chips. Lab on A Chip, 2022, 22, 1584-1593. | 3.1 | 18 |
| 47 | An enduring role for quiescent stem cells. Developmental Dynamics, 2016, 245, 718-726. | 0.8 | 17 |
| 48 | Neonatal-Onset Chronic Diarrhea Caused by Homozygous Nonsense WNT2B Mutations. American Journal of Human Genetics, 2018, 103, 131-137. | 2.6 | 16 |
| 49 | Adrenal Tissue-Specific Deletion of TASK Channels Causes Aldosterone-Driven Angiotensin Iiâ€“Independent Hypertension. Hypertension, 2019, 73, 407-414. | 1.3 | 16 |
| 50 | Chemogenetic activation of adrenocortical Gq signaling causes hyperaldosteronism and disrupts functional zonation. Journal of Clinical Investigation, 2019, 130, 83-93. | 3.9 | 16 |
| 51 | Yersinia pseudotuberculosis YopE prevents uptake by M cells and instigates M cell extrusion in human ileal enteroid-derived monolayers. Gut Microbes, 2021, 13, 1988390. | 4.3 | 15 |
| 52 | Organoid culture system for patient-derived lung metastatic osteosarcoma. Medical Oncology, 2020, 37, 105. | 1.2 | 13 |
| 53 | Move Over Caco-2 Cells: Human-Induced Organoids Meet Gut-on-a-Chip. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 634-635. | 2.3 | 11 |
| 54 | Tacrolimus-binding protein FKBP8 directs myosin light chain kinase-dependent barrier regulation and is a potential therapeutic target in Crohnâ€™s disease. Gut, 2023, 72, 870-881. | 6.1 | 10 |

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|---|---|---|---|
| 55 | Factors regulating quiescent stem cells: insights from the intestine and other selfâ€renewing tissues. Journal of Physiology, 2016, 594, 4805-4813. | 1.3 | 8 |
| 56 | Adrenocortical development: Lessons from mouse models. Annales D'Endocrinologie, 2018, 79, 95-97. | 0.6 | 8 |
| 57 | Early Identification of Primary Hypothyroidism in Neonates Exposed to Intralymphatic Iodinated Contrast: A Case Series. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 3585-3588. | 1.8 | 8 |
| 58 | Sex Differences in Adrenal Bmal1 Deletionâ€"Induced Augmentation of Glucocorticoid Responses to Stress and ACTH in Mice. Endocrinology, 2019, 160, 2215-2229. | 1.4 | 8 |
| 59 | Telomerase Reverse Transcriptase Expression in Mouse Endometrium During Reepithelialization and Regeneration in a Menses-Like Model. Stem Cells and Development, 2019, 28, 1-12. | 1.1 | 8 |
| 60 | Telomerase expression marks transitional growth-associated skeletal progenitor/stem cells. Stem Cells, 2021, 39, 296-305. | 1.4 | 7 |
| 61 | The Adrenal Cortex and Its Disorders. , 2021, , 425-490. | | 7 |
| 62 | Slowly cycling versus rapidly cycling intestinal stem cells: Distinct roles or redundancy. Cell Cycle, 2011, 10, 723-724. | 1.3 | 6 |
| 63 | Oncogenic K-Ras promotes proliferation in quiescent intestinal stem cells. Stem Cell Research, 2015, 15, 165-171. | 0.3 | 6 |
| 64 | Rosette morphology in zona glomerulosa formation and function. Molecular and Cellular Endocrinology, 2021, 530, 111287. | 1.6 | 4 |
| 65 | Cholinergic Activation of Primary Human Derived Intestinal Epithelium Does Not Ameliorate TNF-Î± Induced Injury. Cellular and Molecular Bioengineering, 2020, 13, 487-505. | 1.0 | 3 |
| 66 | Tripleâ€Ðecker Sandwich Cultures of Intestinal Organoids for Longâ€Term Live Imaging, Uniform Perturbation, and Statistical Sampling. Current Protocols, 2022, 2, e330. | 1.3 | 2 |
| 67 | Adrenal Zonation and Development. Contemporary Endocrinology, 2018, , 3-13. | 0.3 | 1 |
| 68 | An organoid model to study the effect of bacterial metabolites on the intestinal epithelium. FASEB Journal, 2018, 32, lb358. | 0.2 | 1 |
| 69 | False-positive very long-chain fatty acids in a case of autoimmune adrenal insufficiency. Journal of Pediatric Endocrinology and Metabolism, 2021, 34, 517-520. | 0.4 | 1 |
| 70 | Wnt2b Is Essential for Adrenocortical Progenitor Cell Fate and Zona Glomerulosa Identity in Vivo. Journal of the Endocrine Society, 2021, 5, A74-A75. | 0.1 | 0 |
| 71 | Calcineurin-NFATc4 Pathway Is Activated Upon K+-stimulation of Adrenal Aldosterone Production. Journal of the Endocrine Society, 2021, 5, A805-A806. | 0.1 | 0 |
| 72 | Aldosterone Insufficiency Contributes to Calcineurin Inhibitorâ€induced Hyperkalemia. FASEB Journal, 2021, 35, . | 0.2 | 0 |

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|---|---|---|---|
| 73 | SAT-363 Deletion of TASK Channels Selectively from the Zona Glomerulosa Causes Mild Angiotensin II-Independent Hyperaldosteronism with Elevated Blood Pressure in Mice. Journal of the Endocrine Society, 2019, 3, . | 0.1 | 0 |
| 74 | MON-726 Modifications of FOXO1 and GATA4-NKX2.5 Signaling Induce Human Enteroendocrine Differentiation. Journal of the Endocrine Society, 2020, 4, . | 0.1 | 0 |