

# James C Y Dunn

## List of Publications by Year in descending order

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89  
papers

2,049  
citations

279487

23  
h-index

288905

40  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2444  
citing authors

#	ARTICLE	IF	CITATIONS
1	A tissue-like neurotransmitter sensor for the brain and gut. <i>Nature</i> , 2022, 606, 94-101.	13.7	162
2	Intestinal Subepithelial Myofibroblasts Support in vitro and in vivo Growth of Human Small Intestinal Epithelium. <i>PLoS ONE</i> , 2011, 6, e26898.	1.1	149
3	Analysis of Cell Growth in Three-Dimensional Scaffolds. <i>Tissue Engineering</i> , 2006, 12, 705-716.	4.9	98
4	Type I Collagen as an Extracellular Matrix for the In Vitro Growth of Human Small Intestinal Epithelium. <i>PLoS ONE</i> , 2014, 9, e107814.	1.1	98
5	Intestinal Subepithelial Myofibroblasts Support the Growth of Intestinal Epithelial Stem Cells. <i>PLoS ONE</i> , 2014, 9, e84651.	1.1	91
6	Mechanically induced development and maturation of human intestinal organoids in vivo. <i>Nature Biomedical Engineering</i> , 2018, 2, 429-442.	11.6	79
7	Development of Functional Microfold (M) Cells from Intestinal Stem Cells in Primary Human Enteroids. <i>PLoS ONE</i> , 2016, 11, e0148216.	1.1	78
8	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. <i>Biomaterials</i> , 2014, 35, 5129-5137.	5.7	75
9	Pharmacologically blocking p53-dependent apoptosis protects intestinal stem cells and mice from radiation. <i>Scientific Reports</i> , 2015, 5, 8566.	1.6	63
10	Disrupting the LINC complex in smooth muscle cells reduces aortic disease in a mouse model of Hutchinson-Gilford progeria syndrome. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	63
11	Initial Laparotomy Versus Peritoneal Drainage in Extremely Low Birthweight Infants With Surgical Necrotizing Enterocolitis or Isolated Intestinal Perforation. <i>Annals of Surgery</i> , 2021, 274, e370-e380.	2.1	62
12	A novel culture system for adult porcine intestinal crypts. <i>Cell and Tissue Research</i> , 2016, 365, 123-134.	1.5	56
13	Enterogenesis by mechanical lengthening: Morphology and function of the lengthened small intestine. <i>Journal of Pediatric Surgery</i> , 2004, 39, 1823-1827.	0.8	51
14	Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. <i>Biomaterials</i> , 2015, 61, 75-84.	5.7	37
15	Global comparison of pediatric surgery workforce and training. <i>Journal of Pediatric Surgery</i> , 2015, 50, 1180-1183.	0.8	37
16	Long-term renewable human intestinal epithelial stem cells as monolayers: A potential for clinical use. <i>Journal of Pediatric Surgery</i> , 2016, 51, 995-1000.	0.8	34
17	The feasibility of using an endoluminal device for intestinal lengthening. <i>Journal of Pediatric Surgery</i> , 2010, 45, 1575-1580.	0.8	29
18	A novel biodegradable device for intestinal lengthening. <i>Journal of Pediatric Surgery</i> , 2014, 49, 109-113.	0.8	29

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19	Concise Review: The Potential Use of Intestinal Stem Cells to Treat Patients with Intestinal Failure. <i>Stem Cells Translational Medicine</i> , 2017, 6, 666-676.	1.6	29
20	Intestinal lengthening in an innovative rodent surgical model. <i>Journal of Pediatric Surgery</i> , 2014, 49, 1791-1794.	0.8	27
21	Spring-mediated distraction enterogenesis in-continuity. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1983-1987.	0.8	25
22	Distension enterogenesis: increasing the size and function of small intestine. <i>Journal of Pediatric Surgery</i> , 2006, 41, 763-767.	0.8	23
23	Restoration of mechanically lengthened jejunum into intestinal continuity in rats. <i>Journal of Pediatric Surgery</i> , 2011, 46, 2321-2326.	0.8	23
24	Intestinal lengthening in rats after massive small intestinal resection. <i>Surgery</i> , 2009, 146, 291-295.	1.0	22
25	Long-Term Outcomes in Children With Intestinal Failure Associated Liver Disease Treated With 6 Months of Intravenous Fish Oil Followed by Resumption of Intravenous Soybean Oil. <i>Journal of Parenteral and Enteral Nutrition</i> , 2019, 43, 708-716.	1.3	22
26	Repeated Mechanical Lengthening of Intestinal Segments in a Novel Model. <i>Journal of Pediatric Surgery</i> , 2015, 50, 954-957.	0.8	21
27	A Wireless Implant for Gastrointestinal Motility Disorders. <i>Micromachines</i> , 2018, 9, 17.	1.4	21
28	Development of an endoluminal intestinal lengthening capsule. <i>Journal of Pediatric Surgery</i> , 2012, 47, 136-141.	0.8	20
29	Scalability of an endoluminal spring for distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1988-1992.	0.8	20
30	Smooth Muscle Strips for Intestinal Tissue Engineering. <i>PLoS ONE</i> , 2014, 9, e114850.	1.1	19
31	Bioengineering functional smooth muscle with spontaneous rhythmic contraction in vitro. <i>Scientific Reports</i> , 2018, 8, 13544.	1.6	18
32	Transplantation of Enteric Cells into the Aganglionic Rodent Small Intestines. <i>Journal of Surgical Research</i> , 2012, 176, 20-28.	0.8	17
33	Function of mechanically lengthened jejunum after restoration into continuity. <i>Journal of Pediatric Surgery</i> , 2014, 49, 971-975.	0.8	17
34	Intestinal lengthening via multiple in-continuity springs. <i>Journal of Pediatric Surgery</i> , 2019, 54, 39-43.	0.8	16
35	Adrenal cortical cell transplantation. <i>Journal of Pediatric Surgery</i> , 2004, 39, 1856-1858.	0.8	15
36	Is the tissue-engineered intestine clinically viable?. <i>Nature Reviews Gastroenterology &amp; Hepatology</i> , 2008, 5, 366-367.	1.7	15

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37	Transplanted skin-derived precursor stem cells generate enteric ganglion-like structures in vivo. <i>Journal of Pediatric Surgery</i> , 2014, 49, 1319-1325.	0.8	15
38	Mechanical lengthening in multiple intestinal segments in-series. <i>Journal of Pediatric Surgery</i> , 2016, 51, 957-959.	0.8	15
39	Transplantation of Enteric Cells Expressing p75 in the Rodent Stomach. <i>Journal of Surgical Research</i> , 2012, 174, 257-265.	0.8	14
40	Bioengineered intestinal muscularis complexes with long-term spontaneous and periodic contractions. <i>PLoS ONE</i> , 2018, 13, e0195315.	1.1	14
41	Feasibility and scalability of spring parameters in distraction enterogenesis in a murine model. <i>Journal of Surgical Research</i> , 2017, 215, 219-224.	0.8	13
42	Increased expression of insulin-like growth factor in intestinal lengthening by mechanical force in rats. <i>Journal of Pediatric Surgery</i> , 2007, 42, 2057-2061.	0.8	12
43	Intestinal epithelial replacement by transplantation of cultured murine and human cells into the small intestine. <i>PLoS ONE</i> , 2019, 14, e0216326.	1.1	12
44	Transplantation of Adrenal Cortical Progenitor Cells Enriched by Nile Red. <i>Journal of Surgical Research</i> , 2009, 156, 317-324.	0.8	11
45	A novel in vivo model of permanent intestinal aganglionosis. <i>Journal of Surgical Research</i> , 2014, 192, 27-33.	0.8	11
46	Biomechanical signaling and collagen fiber reorientation during distraction enterogenesis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103425.	1.5	11
47	Epigenetic Targeting of <i>TERT</i> -Associated Gene Expression Signature in Human Neuroblastoma with <i>TERT</i> Overexpression. <i>Cancer Research</i> , 2020, 80, 1024-1035.	0.4	11
48	Magnetically actuable polymer nanocomposites for bioengineering applications. <i>Journal of Materials Science</i> , 2007, 42, 6139-6147.	1.7	10
49	Innovation in Pediatric Surgical Education for General Surgery Residents: A Mobile Web Resource. <i>Journal of Surgical Education</i> , 2015, 72, 1190-1194.	1.2	10
50	New Insights and Interventions for Short Bowel Syndrome. <i>Current Pediatrics Reports</i> , 2017, 5, 1-5.	1.7	10
51	Comparison of laparoscopic and open pediatric inguinal hernia repairs at two institutions. <i>Pediatric Surgery International</i> , 2018, 34, 1293-1298.	0.6	10
52	Biomechanics of small intestine during distraction enterogenesis with an intraluminal spring. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103413.	1.5	10
53	The effect of colonic tissue electrical stimulation and celiac branch of the abdominal vagus nerve neuromodulation on colonic motility in anesthetized pigs. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13925.	1.6	10
54	Benzalkonium chloride-treated anorectums mimicked endothelin-3-deficient aganglionic anorectums on manometry. <i>Journal of Pediatric Surgery</i> , 2010, 45, 2408-2411.	0.8	9

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55	Double plication for spring-mediated intestinal lengthening of a defunctionalized Roux limb. <i>Journal of Pediatric Surgery</i> , 2018, 53, 1806-1810.	0.8	9
56	Mechanisms for intestinal regeneration. <i>Current Opinion in Pediatrics</i> , 2018, 30, 424-429.	1.0	9
57	Intravenous Fish Oil and Serum Fatty Acid Profiles in Pediatric Patients With Intestinal Failure Associated Liver Disease. <i>Journal of Parenteral and Enteral Nutrition</i> , 2019, 43, 717-725.	1.3	9
58	Double plication for spring-mediated in-continuity intestinal lengthening in a porcine model. <i>Surgery</i> , 2019, 165, 389-392.	1.0	9
59	Biomechanical Force Prediction for Lengthening of Small Intestine during Distraction Enterogenesis. <i>Bioengineering</i> , 2020, 7, 140.	1.6	9
60	Mechanical lengthening of porcine small intestine with decreased forces. <i>Journal of Pediatric Surgery</i> , 2021, 56, 1192-1198.	0.8	9
61	A novel method of esophageal lengthening in a large animal model of long gap esophageal atresia. <i>Journal of Pediatric Surgery</i> , 2015, 50, 928-932.	0.8	8
62	Intestinal adaptation following spring insertion into a roux limb in mice. <i>Journal of Pediatric Surgery</i> , 2021, 56, 346-351.	0.8	8
63	Skin-derived precursors generate enteric-type neurons in aganglionic jejunum. <i>Journal of Pediatric Surgery</i> , 2014, 49, 1809-1814.	0.8	7
64	The cellular regulators PTEN and BMI1 help mediate NEUROGENIN-3 induced cell cycle arrest. <i>Journal of Biological Chemistry</i> , 2019, 294, 15182-15192.	1.6	7
65	Intestinal Electrical Stimulation to Increase the Rate of Peristalsis. <i>Journal of Surgical Research</i> , 2019, 236, 153-158.	0.8	7
66	Tissue Engineering and Regenerative Science in Pediatrics. <i>Pediatric Research</i> , 2008, 63, 459-460.	1.1	6
67	Basic fibroblast growth factor eluting microspheres enhance distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016, 51, 960-965.	0.8	6
68	Mouse model of endoscopically ablated enteric nervous system. <i>Journal of Surgical Research</i> , 2016, 200, 117-121.	0.8	6
69	A Wireless Implantable System for Facilitating Gastrointestinal Motility. <i>Micromachines</i> , 2019, 10, 525.	1.4	6
70	Optimization of In-Continuity Spring-Mediated Intestinal Lengthening. <i>Journal of Pediatric Surgery</i> , 2020, 55, 158-163.	0.8	6
71	A durable model of Hirschsprung's colon. <i>Journal of Pediatric Surgery</i> , 2014, 49, 1804-1808.	0.8	5
72	Autologous Transplantation of Skin-Derived Precursor Cells in a Porcine Model. <i>Journal of Pediatric Surgery</i> , 2020, 55, 194-200.	0.8	5

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73	Tumescent Injections in Subcutaneous Pig Tissue Disperse Fluids Volumetrically and Maintain Elevated Local Concentrations of Additives for Several Hours, Suggesting a Treatment for Drug Resistant Wounds. <i>Pharmaceutical Research</i> , 2020, 37, 51.	1.7	5
74	Electroacupuncture to Increase Neuronal Stem Cell Growth. <i>Medical Acupuncture</i> , 2020, 32, 16-23.	0.3	5
75	Surgical Treatment of Short Bowel Syndrome—The Past, the Present and the Future, a Descriptive Review of the Literature. <i>Children</i> , 2022, 9, 1024.	0.6	5
76	Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis. <i>PLoS ONE</i> , 2018, 13, e0200529.	1.1	4
77	Human skin-derived precursor cells xenografted in aganglionic bowel. <i>Journal of Pediatric Surgery</i> , 2020, 55, 2791-2796.	0.8	4
78	Mesenteric neovascularization during spring-mediated intestinal lengthening. <i>Journal of Pediatric Surgery</i> , 2021, 56, 5-10.	0.8	4
79	Distraction enterogenesis in the murine colon. <i>Journal of Pediatric Surgery</i> , 2021, , .	0.8	4
80	Primary Myofibroblasts Maintain Short-Term Viability following Submucosal Injection in Syngeneic, Immune-Competent Mice Utilizing Murine Colonoscopy. <i>PLoS ONE</i> , 2015, 10, e0127258.	1.1	3
81	Interstitial Matrix Prevents Therapeutic Ultrasound From Causing Inertial Cavitation in Tumescent Subcutaneous Tissue. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 177-186.	0.7	3
82	Gastrointestinal Myoelectric Measurements via Simultaneous External and Internal Electrodes in Pigs. <i>Journal of Surgical Research</i> , 2022, 279, 119-126.	0.8	3
83	Subcutaneous cefazolin to reduce surgical site infections in a porcine model. <i>Journal of Surgical Research</i> , 2018, 224, 156-159.	0.8	2
84	Irreversible Electroporation for De-epithelialization of Murine Small Intestine. <i>Journal of Surgical Research</i> , 2020, 256, 602-610.	0.8	2
85	Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients. <i>Pediatric Gastroenterology, Hepatology and Nutrition</i> , 2019, 22, 518.	0.4	2
86	Fluid flow in tumescent subcutaneous tissue observed with 3D scanning: massage accelerates injection dispersal. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045014.	0.6	1
87	Delayed appearance of mature ganglia in an infant with an atypical presentation of total colonic and small bowel aganglionosis: a case report. <i>BMC Pediatrics</i> , 2019, 19, 93.	0.7	1
88	Collagen and heparan sulfate coatings differentially alter cell proliferation and attachment in vitro and in vivo. <i>Technology</i> , 2016, 04, 159-169.	1.4	0
89	Intestinal Bioengineering. <i>Clinical Transplants</i> , 2016, 32, 1-4.	0.2	0