



James Dunn

Professor of Surgery (Pediatric Surgery)

Surgery - Pediatric Surgery

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Center for Academic Medicine**

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ACADEMIC CONTACT INFORMATION

- **Administrative Assistant**

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Bio

BIO

Dr. Dunn obtained his B.S. degree in Biology and Chemical Engineering from the California Institute of Technology and his M.D. and Ph.D. degrees from Harvard and Massachusetts Institute of Technology. He trained in General Surgery at the UCLA School of Medicine and in Pediatric Surgery at the Riley Hospital for Children in Indianapolis. He was the Professor and Chief of Pediatric Surgery at UCLA, with a joint appointment in the Department of Bioengineering until 2016. Dr. Dunn served as the Susan B. Ford Surgeon-in-Chief at the Lucile Packard Children's Hospital from 2016 to 2022. He is the John A. and Cynthia Fry Gunn Director of Pediatric Surgery, and Professor of Surgery and Bioengineering at the Stanford School of Medicine.

CLINICAL FOCUS

- Pediatric Surgery
- Short Bowel Syndrome
- Intestinal Motility Disorders

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Pediatric Surgery
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chief of Pediatric Surgery, Department of Surgery, Stanford, (2016- present)
- Surgeon-in-Chief, Lucile Packard Children's Hospital, (2016-2022)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Child Health Research Institute Executive Committee (2016 - 2022)

PROFESSIONAL EDUCATION

- B.S., California Institute of Technology , Biology and Chemical Engineering (1985)
- M.D., Harvard Medical School , Medicine (1992)
- Ph.D., Massachusetts Institute of Technology , Medical Engineering (1992)
- Residency: UCLA Health Sciences (1999) CA
- Board Certification: General Surgery, American Board of Surgery (2000)
- Fellowship: Riley Hospital for Children at Indiana University Health (2001) IN
- Board Certification: Pediatric Surgery, American Board of Surgery (2002)

PATENTS

- James Dunn. "United States Patent 9,138,336 Expandable distension device for hollow organ growth", Sep 22, 2015

LINKS

- My Research Laboratory: <http://pediatricsurgery.stanford.edu/research/JDResearch.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Intestinal lengthening for short bowel syndrome

Intestinal stem cell therapy for intestinal failure

Skin derived precursor cell therapy for enteric neuromuscular dysfunction

Intestinal tissue engineering

Teaching

COURSES

2025-26

- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)

2024-25

- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)

2023-24

- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)

2022-23

- Senior Capstone Design I: BIOE 141A (Aut)
- Senior Capstone Design II: BIOE 141B (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Carly Celebrezze, Anam Ehsan, Javeria Javed, Helene Nepomuceno, Asad Gul Rao, Siavash Shariatzadeh, Humza Thobani

Postdoctoral Research Mentor

Siavash Shariatzadeh

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Pediatric Surgery (Fellowship Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **Repeated lengthening using distraction enterogenesis: A porcine model.** *Surgery*
Emengo, P., Fell, G. L., Nepomuceno, H., Thomas, A. L., Dunn, J. C.
2026; 194: 110159
- **Evaluation of the initial safety profile of the Eclipse XL1 coil to perform distraction enterogenesis: A first-in-human trial.** *Surgery*
Forrester, J. D., Myers, A. A., Guo, H. H., Abreo, A., Dunn, J. C.
2025; 190: 109865
- **High-density soft bioelectronic fibres for multimodal sensing and stimulation.** *Nature*
Khatib, M., Zhao, E. T., Wei, S., Park, J., Abramson, A., Bishop, E. S., Thomas, A. L., Chen, C. H., Emengo, P., Xu, C., Hamnett, R., Root, S. E., Yuan, et al
2025; 645 (8081): 656-664
- **Spring-mediated distraction enterogenesis may alter the course of adaptation in porcine short bowel syndrome.** *Frontiers in gastroenterology (Lausanne, Switzerland)*
Bautista, G. M., Dubrovsky, G., Sweeney, N. K., Solórzano-Vargas, R. S., Tancredi, D. J., Lewis, M., Stelzner, M., Martín, M. G., Dunn, J. C.
2024; 3
- **Engineered Living Intestinal Muscle Patch Produces Macroscopic Contractions that can Mix and Break down Artificial Intestinal Contents.** *Advanced materials (Deerfield Beach, Fla.)*
Wang, Q., Wang, J., Tokhtaeva, E., Li, Z., Martín, M. G., Ling, X. B., Dunn, J. C.
2023: e2207255
- **Long-term safety of intraluminal spring-mediated bowel lengthening.** *Journal of pediatric surgery*
Rafeeqi, T., Sullins, V. F., Thomas, A., Wagner, J. P., Wood, L. S., Salimi-Jazi, F., Bessette, A., Dunn, J. C.
2022
- **Surgical Treatment of Short Bowel Syndrome-The Past, the Present and the Future, a Descriptive Review of the Literature.** *Children (Basel, Switzerland)*
Muff, J. L., Sokolovski, F., Walsh-Korb, Z., Choudhury, R. A., Dunn, J. C., Holland-Cunz, S. G., Vuille-Dit-Bille, R. N.
2022; 9 (7)
- **Gastrointestinal Myoelectric Measurements via Simultaneous External and Internal Electrodes in Pigs.** *The Journal of surgical research*
Salimi-Jazi, F., Thomas, A. L., Rafeeqi, T., Diyaolu, M., Wood, L. S., Axelrod, S., Navalgund, A., Axelrod, L., Dunn, J. C.
2022; 279: 119-126
- **A tissue-like neurotransmitter sensor for the brain and gut.** *Nature*
Li, J., Liu, Y., Yuan, L., Zhang, B., Bishop, E. S., Wang, K., Tang, J., Zheng, Y., Xu, W., Niu, S., Beker, L., Li, T. L., Chen, et al
2022; 606 (7912): 94-101
- **Internal plication for spring confinement to lengthen intestine in a porcine model.** *PloS one*
Rafeeqi, T. A., Thomas, A., Salimi-Jazi, F., Diyaolu, M., Dunn, J. C.
2022; 17 (9): e0274612
- **Distraction enterogenesis in the murine colon.** *Journal of pediatric surgery*
Portelli, K. I., Thomas, A., Wood, L. S., Diyaolu, M., Taylor, J. S., Dunn, J. C.

2021

- **Mechanical lengthening of porcine small intestine with decreased forces.** *Journal of pediatric surgery*
Wood, L. S., Hosseini, H. S., Diyaolu, M., Thomas, A., Taylor, J. S., Dunn, J. C.
2021
- **Biomechanical Force Prediction for Lengthening of Small Intestine during Distraction Enterogenesis.** *Bioengineering (Basel, Switzerland)*
Hosseini, H. S., Dunn, J. C.
2020; 7 (4)
- **Human skin-derived precursor cells xenografted in aganglionic bowel.** *Journal of pediatric surgery*
Thomas, A. L., Taylor, J. S., Dunn, J. C.
2020
- **Mesenteric neovascularization during spring-mediated intestinal lengthening.** *Journal of pediatric surgery*
Diyaolu, M. n., Thomas, A. L., Wood, L. S., Taylor, J. n., Dunn, J. C.
2020
- **Optimization of In-Continuity Spring-Mediated Intestinal Lengthening.** *Journal of pediatric surgery*
Dubrovsky, G., Taylor, J. S., Thomas, A., Shekherdimian, S., Dunn, J. C.
2019
- **Growth of Small Intestinal Layers Proximal and Distal to the Intestine Undergoing Distraction Enterogenesis**
Wood, L. S. Y., Taylor, J. S., Hosseini, H. S., Dubrovsky, G., Thomas, A., Dunn, J. C. Y.
ELSEVIER SCIENCE INC.2019: S204
- **Intestinal Electrical Stimulation to Increase the Rate of Peristalsis** *JOURNAL OF SURGICAL RESEARCH*
Dubrovsky, G., Lo, Y., Wang, P., Wu, M., Nhan Huynh, Liu, W., Dunn, J. C. Y.
2019; 236: 153–58
- **Double plication for spring-mediated in-continuity intestinal lengthening in a porcine model**
Dubrovsky, G., Nhan Huynh, Thomas, A., Shekherdimian, S., Dunn, J. C. Y.
MOSBY-ELSEVIER.2019: 389–92
- **Intestinal lengthening via multiple in-continuity springs**
Dubrovsky, G., Nhan Huynh, Thomas, A., Shekherdimian, S., Dunn, J. C. Y.
W B SAUNDERS CO-ELSEVIER INC.2019: 39–43
- **Intestinal epithelial replacement by transplantation of cultured murine and human cells into the small intestine.** *PloS one*
Khalil, H. A., Hong, S. N., Rouch, J. D., Scott, A. n., Cho, Y. n., Wang, J. n., Lewis, M. S., Martin, M. G., Dunn, J. C., Stelzner, M. G.
2019; 14 (5): e0216326
- **Intestinal lengthening via multiple in-continuity springs.** *Journal of pediatric surgery*
Dubrovsky, G., Huynh, N., Thomas, A., Shekherdimian, S., Dunn, J. C.
2018
- **Bioengineering functional smooth muscle with spontaneous rhythmic contraction in vitro** *SCIENTIFIC REPORTS*
Kobayashi, M., Khalil, H. A., Lei, N., Wang, Q., Wang, K., Wu, B. M., Dunn, J. C. Y.
2018; 8: 13544
- **Mechanically induced development and maturation of human intestinal organoids in vivo.** *Nature biomedical engineering*
Poling, H. M., Wu, D., Brown, N., Baker, M., Hausfeld, T. A., Huynh, N., Chaffron, S., Dunn, J. C., Hogan, S. P., Wells, J. M., Helmuth, M. A., Mahe, M. M.
2018; 2 (6): 429-442
- **Bioengineered intestinal muscularis complexes with long-term spontaneous and periodic contractions** *PLOS ONE*
Wang, Q., Wang, K., Solorzano-Vargas, R., Lin, P., Walthers, C. M., Thomas, A., Martin, M. G., Dunn, J. C. Y.
2018; 13 (5): e0195315
- **Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis.** *PloS one*
Huynh, N. n., Dubrovsky, G. n., Rouch, J. D., Scott, A. n., Chiang, E. n., Nguyen, T. n., Wu, B. M., Shekherdimian, S. n., Krummel, T. M., Dunn, J. C.

2018; 13 (7): e0200529

- **New insights and interventions for short bowel syndrome.** *Current pediatrics reports*
Rouch, J. D., Dunn, J. C.
2017; 5 (1): 1-5
- **Mechanical lengthening in multiple intestinal segments in-series** *JOURNAL OF PEDIATRIC SURGERY*
Scott, A., Rouch, J. D., Huynh, N., Chiang, E., Shekherdimian, S., Lee, S. L., Wu, B. M., Dunn, J. C.
2016; 51 (6): 957-959
- **Long-term renewable human intestinal epithelial stem cells as monolayers: A potential for clinical use** *JOURNAL OF PEDIATRIC SURGERY*
Scott, A., Rouch, J. D., Jabaji, Z., Khalil, H. A., Solorzano, S., Lewis, M., Martin, M. G., Stelzner, M. G., Dunn, J. C.
2016; 51 (6): 995-1000
- **A national database study of adjuvant steroids following Kasai portoenterostomy for biliary atresia.** *Pediatric surgery international*
Liang, N. E., Thobani, H., Moturu, A., Suh, E., Islam, S., Fell, G. L., Hyun, J. S., Sylvester, K. G., Chao, S. D., Dunn, J. C., Khan, F. A.
2026; 42 (1)
- **Epithelial Ion Transport in Spring-Lengthened Jejunum in a Porcine Model.** *Journal of pediatric surgery*
Joo, N. S., Thomas, A. L., Salimi-Jazi, F., Rafeeqi, T. A., Fell, G., Emengo, P., Nguyen, J. A., Diyaolu, M., Abazari, S., Sellers, Z. M., Dunn, J. C.
2025: 162880
- **Influence of Sacral and Thoracolumbar Spinal Nerve Electrical Stimulation on Colonic Motility in Anesthetized Yucatan Male Pigs.** *Neurogastroenterology and motility*
Larauche, M., Wang, Y., Chen, Y. P., Han, X., Atmani, K., Dunn, J. C., Liu, W., Million, M.
2025: e70213
- **Submucosal Hydrogel for Spring-Mediated Intestinal Lengthening.** *Journal of biomedical materials research. Part A*
Salimi-Jazi, F., de Paiva Narciso, N., Fell, G., Thomas, A., Navarro, R. S., Rafeeqi, T., Baugh, N. J., Suhar, R. A., Nguyen, J., Lopez, N., Heilshorn, S. C., Dunn, J. C.
2025; 113 (10): e37986
- **Adjuvant steroids following Kasai portoenterostomy for biliary atresia: a single-center 18-year experience comparing different steroid dose regimens.** *Pediatric surgery international*
Liang, N. E., Danzer, E., Hyun, J. S., Chao, S. D., Bruzoni, M., Dunn, J. C.
2025; 41 (1): 258
- **BA-ECM Score: Automated Quantification of Liver Fibrosis Architecture in Biliary Atresia with Potential for Prognostic Value - A Pilot Study.** *Annals of surgery*
Liang, N. E., Guo, J. L., Griffin, M. F., Bauer-Rowe, K. E., Narang, A., Januszyk, M., Fell, G. L., Dunn, J. C., Chao, S. D., Tan, S. Y., Longaker, M. T., Hyun, J. S.
2025
- **Smooth muscle cell Piezo1 depletion results in impaired contractile properties in murine small bowel.** *Communications biology*
Bautista, G. M., Du, Y., Matthews, M. J., Flores, A. M., Kushnir, N. R., Sweeney, N. K., Nguyen, N. P., Tokhtaeva, E., Solorzano-Vargas, R. S., Lewis, M., Stelzner, M., He, X., Dunn, et al
2025; 8 (1): 448
- **Colonic dilation is associated with increased central line associated blood stream infection for patients with intestinal failure.** *Intestinal Failure (New York, N.Y.)*
Emengo, P., Namjoshi, S. S., Dunn, J. C.
2025; 5: 100064
- **Mechanical distraction enterogenesis utilizing springs has equal effectiveness in adult and juvenile pigs.** *Pediatric surgery international*
Rafeeqi, T. A., Thomas, A. L., Salimi-Jazi, F., Diyaolu, M., Lopez, N., Dunn, J. C.
2024; 41 (1): 18
- **Dipeptidylpeptidase 4 Is Overexpressed in the Extracellular Matrix of Biliary Atresia-Associated Liver Fibrosis**
Liang, N., Griffin, M., Parker, J. B. L., Guo, J. L., Bauer-Rowe, K. E., Fell, G. L., Dunn, J. C. Y., Tan, S. Y. S., Hyun, J. S., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2024: S347-S348

- **Uncovering the Human Colon Mechanosensitive Regeneration: Insights from Children with Hirschsprung Disease**
Shariatzadeh, S., Sazi, A. T., Martin, M. G., Dunn, J. C. Y.
LIPPINCOTT WILLIAMS & WILKINS.2024: S365-S366
- **Distraction Enterogenesis Induces Desert Hedgehog in the Lengthened Murine Colon.** *Journal of pediatric surgery*
Shariatzadeh, S., Sazi, A. T., Dunn, J. C.
2024: 161960
- **Surgical Necrotizing Enterocolitis and Spontaneous Intestinal Perforation Lead to Severe Growth Failure in Infants.** *Annals of surgery*
Speer, A. L., Lally, K. P., Pedroza, C., Zhang, Y., Poindexter, B. B., Chwals, W. J., Hintz, S. R., Besner, G. E., Stevenson, D. K., Ohls, R. K., Truog, W. E., Stoll, B. J., Rysavy, et al
2024; 280 (3): 432-443
- **Perioperative Gastrointestinal Myoelectric Activity Measurement Using Wireless External Patches.** *The Journal of surgical research*
Salimi-Jazi, F., Thomas, A. L., Wood, L. S., Rafeeqi, T., Axelrod, S., Navalgund, A., Axelrod, L., Dunn, J. C.
2024; 302: 186-199
- **A human autoimmune organoid model reveals IL-7 function in coeliac disease.** *Nature*
Santos, A. J., van Unen, V., Lin, Z., Chirieleison, S. M., Ha, N., Batish, A., Chan, J. E., Cedano, J., Zhang, E. T., Mu, Q., Guh-Siesel, A., Tomaske, M., Colburg, et al
2024
- **Vertebral compression fractures in pediatric patients with intestinal failure: A prospective observational case series.** *Intestinal Failure (New York, N.Y.)*
Smith, A., Namjoshi, S. S., Bachrach, L. K., Grover, M., Hoyer, C., Dunn, J. C., Hanudel, M. R., Kinberg, S.
2024; 1: 100006
- **Ileal lengthening through internal distraction: A novel procedure for ultrashort bowel syndrome.** *Journal of pediatric surgery open*
Cunningham, A. J., Anderson, T., Mueller, C., Bruzoni, M., Dunn, J. C.
2024; 6
- **Effect of air-liquid interface on cultured human intestinal epithelial cells.** *FASEB bioAdvances*
Sabapaty, A., Lin, P. Y., Dunn, J. C.
2024; 6 (2): 41-52
- **Vertebral compression fractures in pediatric patients with intestinal failure: A prospective observational case series.** *Intestinal Failure*
Smith, A., Namjoshi, S., Bachrach, L., Grover, M., Hoyer, C., Dunn, J. C., Hanudel, M., Kinberg, S.
2024; 1
- **Mechanosensitivity and Adaptive Capacity of the Intestinal Wall in a Partial Obstruction Murine Model**
Shariatzadeh, S., Thomas, A. A., Lopez, N. D., Martin, M. G., Dunn, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2023: S356
- **Non-Canonical Ciliary-Mediated Hedgehog Signaling Underlying Cecal Lengthening**
Shariatzadeh, S., Thomas, A. A., Portelli, K., Wood, L., Park, J., Dunn, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2023: S373
- **Spiral NeuroString: High-Density Soft Bioelectronic Fibers for Multimodal Sensing and Stimulation.** *bioRxiv : the preprint server for biology*
Khatib, M., Zhao, E. T., Wei, S., Abramson, A., Bishop, E. S., Chen, C., Thomas, A., Xu, C., Park, J., Lee, Y., Hamnett, R., Yu, W., Root, et al
2023
- **Allometrically scaling tissue forces drive pathological foreign-body responses to implants via Rac2-activated myeloid cells.** *Nature biomedical engineering*
Padmanabhan, J., Chen, K., Sivaraj, D., Henn, D., Kuehlmann, B. A., Kussie, H. C., Zhao, E. T., Kahn, A., Bonham, C. A., Dohi, T., Beck, T. C., Trotsyuk, A. A., Stern-Buchbinder, et al
2023
- **Organoid modeling of lung-resident immune responses to SARS-CoV-2 infection.** *Research square*
Choi, S. S., van Unen, V., Zhang, H., Rustagi, A., Alwahabi, S. A., Santos, A. J., Chan, J. E., Lam, B., Solis, D., Mah, J., Röltgen, K., Trope, W., Guh-Siesel, et al

2023

- **Stem cell activation during distraction enterogenesis in the murine colon.** *Pediatric surgery international*
Salimi-Jazi, F., Thomas, A. L., Rafeeqi, T. A., Wood, L. S., Portelli, K., Dunn, J. C.
2023; 39 (1): 172
- **Intestinal lengthening via mechanical enterogenesis in an infant with short gut syndrome** *JOURNAL OF PEDIATRIC SURGERY CASE REPORTS*
Anderson, T. N., Mueller, C., Dunn, J. C. Y.
2023; 91
- **Importance of Ileum and Colon in Children with Short Bowel Syndrome.** *Journal of pediatric surgery*
Smith, A., Namjoshi, S., Kerner, J. A., Dunn, J. C.
2023
- **The effect of spring diameter on porcine ileal distraction enterogenesis.** *Pediatric surgery international*
Salimi-Jazi, F., Thomas, A. L., Rafeeqi, T., Diyaolu, M., Wood, L. S., Dunn, J. C.
2022; 39 (1): 19
- **A Novel Role for Biomechanical Forces in the Pathogenesis of Idiopathic Constipation**
Olutoye, O. O., Lafreniere, A., Short, W. D., Padon, B. W., Li, H., Hsu, B., Dunn, J. C. Y., Goldstein, A. M., Keswani, S. G., Cheng, L.
LIPPINCOTT WILLIAMS & WILKINS.2022: S172
- **Mechanical Distraction Enterogenesis Using Springs Has Equal Effectiveness in Adult and Juvenile Pigs**
Rafeeqi, T., Thomas, A., Jazi, F., Diyaolu, M., Dunn, J. C. Y.
LIPPINCOTT WILLIAMS & WILKINS.2022: S182
- **Stem Cell Activation During Distraction Enterogenesis in Murine Colon**
Jazi, F., Thomas, A. A., Wood, L., Rafeeqi, T., Portelli, K., Dunn, J. C. Y.
LIPPINCOTT WILLIAMS & WILKINS.2022: S191
- **Butyrate induces development-dependent necrotizing enterocolitis-like intestinal epithelial injury via necroptosis.** *Pediatric research*
Wang, K., Tao, G., Salimi-Jazi, F., Lin, P., Sun, Z., Liu, B., Sinclair, T., Mostaghimi, M., Dunn, J., Sylvester, K. G.
2022
- **Soluble Protein Hydrolysate Ameliorates Gastrointestinal Inflammation and Injury in 2,4,6-Trinitrobenzene Sulfonic Acid-Induced Colitis in Mice.** *Biomolecules*
Wei, J., Tao, G., Xu, B., Wang, K., Liu, J., Chen, C., Dunn, J. C., Currie, C., Framroze, B., Sylvester, K. G.
2022; 12 (9)
- **Generation of Porcine Ileum Through Spring-Mediated Mechanical Distraction.** *The Journal of surgical research*
Rafeeqi, T. A., Diyaolu, M., Thomas, A., Salimi-Jazi, F., Wood, L. S., Dunn, J. C.
2022; 280: 371-378
- **The novel application of an emerging device for salvage of primary repair in high-risk complex esophageal atresia.** *Journal of pediatric surgery*
Evans, L. L., Chen, C. S., Muensterer, O. J., Sahlabadi, M., Lovvorn, H. N., Novotny, N. M., Upperman, J. S., Martinez, J. A., Bruzoni, M., Dunn, J. C., Harrison, M. R., Fuchs, J. R., Zamora, et al
2022
- **Allometric Tissue-Scale Forces Activate Mechanoresponsive Immune Cells To Drive Pathological Foreign Body Response To Biomedical Implants**
Padmanabhan, J., Chen, K., Sivaraj, D., Kuehlmann, B., Bonham, C., Dohi, T., Henn, D., Stern-Buchbinder, Z., Than, P., Hosseini, H., Barrera, J., Kussie, H., Magbual, et al
WILEY.2022: A19-A20
- **Metabolic model of necrotizing enterocolitis in the premature newborn gut resulting from enteric dysbiosis.** *Frontiers in pediatrics*
Casaburi, G., Wei, J., Kazi, S., Liu, J., Wang, K., Tao, G., Lin, P., Dunn, J. C., Henrick, B. M., Frese, S. A., Sylvester, K. G.
2022; 10: 893059
- **Initial Laparotomy Versus Peritoneal Drainage in Extremely Low Birthweight Infants With Surgical Necrotizing Enterocolitis or Isolated Intestinal Perforation: A Multicenter Randomized Clinical Trial.** *Annals of surgery*

Blakely, M. L., Tyson, J. E., Lally, K. P., Hintz, S. R., Eggleston, B., Stevenson, D. K., Besner, G. E., Das, A., Ohls, R. K., Truog, W. E., Nelin, L. D., Poindexter, B. B., Pedroza, et al
2021; 274 (4): e370-e380

- **Irreversible Electroporation for De-epithelialization of Murine Small Intestine.** *The Journal of surgical research*
Wood, L. S., Dunn, J. C.
2020; 256: 602-10
- **Intestinal adaptation following spring insertion into a roux limb in mice.** *Journal of pediatric surgery*
Portelli, K. I., Park, J., Taylor, J. S., Thomas, A., Stelzner, M., Martin, M. G., Dunn, J. C.
2020
- **Regional Colonic Motility Response to Colon Tissue, Celiac vagus and Sacral Nerve Electrical Stimulation**
Larauche, M., Wang, Y., Wang, P., Dubrovsky, G., Chen, Y., Dunn, J., Tache, Y., Liu, W., Mulugeta, M.
WILEY.2020
- **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.** *Pharmaceutical research*
Koulakis, J. P., Rouch, J., Huynh, N., Wu, H. H., Dunn, J. C., Putterman, S.
2020; 37 (3): 51
- **Electroacupuncture to Increase Neuronal Stem Cell Growth** *MEDICAL ACUPUNCTURE*
Dubrovsky, G., Ha, D., Thomas, A., Zhu, M., Hubacher, J., Itoh, T., Dunn, J. C. Y.
2020; 32 (1): 16-23
- **Comparison of Surgical and Cadaveric Intestine as a Source of Crypt Culture in Humans.** *Cell transplantation*
Scott, A., Olack, B., Rouch, J. D., Khalil, H. A., Kokubun, B. A., Lei, N. Y., Wang, J., Solorzano, S., Lewis, M., Dunn, J. C., Stelzner, M. G., Niland, J. C., Martin, et al
2020; 29: 963689720903709
- **The effect of colonic tissue electrical stimulation and celiac branch of the abdominal vagus nerve neuromodulation on colonic motility in anesthetized pigs.** *Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society*
Larauche, M. n., Wang, Y. n., Wang, P. M., Dubrovsky, G. n., Lo, Y. K., Hsiang, E. L., Dunn, J. C., Taché, Y. n., Liu, W. n., Million, M. n.
2020: e13925
- **Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients** *PEDIATRIC GASTROENTEROLOGY HEPATOLOGY & NUTRITION*
Taylor, J. S., de Ruijter, V., Brewster, R., Navalgund, A., Axelrod, L., Axelrod, S., Dunn, J. C. Y., Wall, J. K.
2019; 22 (6): 518-26
- **Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients.** *Pediatric gastroenterology, hepatology & nutrition*
Taylor, J. S., de Ruijter, V., Brewster, R., Navalgund, A., Axelrod, L., Axelrod, S., Dunn, J. C., Wall, J. K.
2019; 22 (6): 518-526
- **Autologous Transplantation of Skin-Derived Precursor Cells in a Porcine Model.** *Journal of pediatric surgery*
Thomas, A., Taylor, J. S., Huynh, N., Dubrovsky, G., Chadarevian, J., Chen, A., Baker, S., Dunn, J. C.
2019
- **Biomechanical signaling and collagen fiber reorientation during distraction enterogenesis.** *Journal of the mechanical behavior of biomedical materials*
Hosseini, H. S., Wood, L. S., Taylor, J. S., Dubrovsky, G., Portelli, K. I., Thomas, A., Dunn, J. C.
2019; 101: 103425
- **Biomechanics of small intestine during distraction enterogenesis with an intraluminal spring.** *Journal of the mechanical behavior of biomedical materials*
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