JAMES C. Y. DUNN
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Palo Alto, CA 94304
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EDUCATION

California Institute of Technology, Pasadena, California 91126
Biology and Chemical Engineering
Bachelor of Science with Honors, 6/1985

Harvard Medical School, Boston, Massachusetts 02115
Division of Health Sciences and Technology
Doctor of Medicine with Honors, 6/1992

Massachusetts Institute of Technology, Cambridge, Massachusetts 02139
Program in Medical Engineering and Medical Physics
Department of Chemical Engineering
Doctor of Philosophy, 6/1992

POSTDOCTORAL TRAINING

University of California, Los Angeles, California 90095
Department of Surgery, UCLA Medical Center
Residency in General Surgery, 6/1992 – 6/1999

Indiana University, Indianapolis, Indiana 46202
Department of Surgery, Riley Hospital for Children, Indiana University
Fellowship in Pediatric Surgery, 7/1999 – 6/2001

LICENSURE AND CERTIFICATION

California State Medical Board, G077963, 11/1993
American Board of Surgery, General Surgery, 44961, 2/2000, 12/2009
American Board of Surgery, Pediatric Surgery, 856, 3/2002, 9/2011

PROFESSIONAL EXPERIENCE

Administrative Chief Resident, Department of Surgery, UCLA School of Medicine, 7/1998
Lecturer in Surgery, Indiana University, 7/2000 – 6/2001
Assistant Professor in Pediatric Surgery, UCLA School of Medicine, 8/2001 – 6/2006
Assistant Professor in Bioengineering, UCLA School of Engineering, 9/2002 – 6/2006
Member, Surgery Marketing Committee, UCLA School of Medicine, 7/2004 – 6/2010
Member, Surgery Academic Program Committee, UCLA School of Medicine, 7/2004 – 6/2010

Chair, Graduate Program in Bioengineering, UCLA School of Engineering, 7/2005 – 6/2012
Associate Professor in Pediatric Surgery, UCLA School of Medicine, 7/2006 – 6/2011
Associate Professor in Bioengineering, UCLA School of Engineering, 7/2006 – 6/2011
Chair, Biomedical Engineering Interdepartmental Program, UCLA, 7/2009 – 6/2012
Interim Chief, Division of Pediatric Surgery, UCLA, 7/2010 – 6/2011
Professor in Pediatric Surgery, UCLA School of Medicine, 7/2011 – 9/2016
Professor in Bioengineering, UCLA School of Engineering, 7/2011 – 9/2016
Chief, Division of Pediatric Surgery, UCLA, 7/2011 – 9/2016
Professor in Pediatrics, UCLA, 7/2012 – 9/2016
Member, Department of Surgery Executive Committee, UCLA, 7/2012 – 9/2016
Chair, Department of Bioengineering Fellowship, UCLA, 7/2012 – 9/2016
Member, Surgery Faculty Practice Group, UCLA, 7/2013 – 9/2016
Co-chair, Pediatric Faculty Practice Group, UCLA, 7/2014- 9/2016
At-large Member, Faculty Practice Group, UCLA, 7/2014 – 9/2016
Susan B. Ford Surgeon-in-Chief, Lucile Packard Children's Hospital, 10/2016 – 2/2022
John and Cynthia Gunn Director of Pediatric Surgery, Stanford University, 10/2016 - Present
Professor of Surgery, Stanford University School of Medicine, 10/2016 – Present
Chief, Division of Pediatric Surgery, Stanford University, 10/2016 – Present
Professor of Bioengineering, Stanford University, 2/2017 – Present

PROFESSIONAL ACTIVITIES

Member, American College of Surgeons, 1994 - Present
Member, Surgery Education Committee, UCLA School of Medicine, 1996 – 1999, 2003 – 2006
Member, Association for Academic Surgeons, 2002 – Present
Member, Society of University Surgeons, 2004 - Present
Member, Pacific Association of Pediatric Surgeons, 2005 – Present
Member, American Pediatric Surgical Association, 2006 – Present
Member, Biomedical Engineering Society, 2007 – Present
Member, American Academy of Pediatrics, 2008 - Present
Member, Tissue Engineering Regenerative Medicine International Society, 2008 – Present
Fellow, American Institute for Medical and Biological Engineering, 2011 - Present
Member, Publication Committee, Pacific Association of Pediatric Surgeons, 2005 - 2011
Member, Appointment and Promotions Committee, UCLA Department of Surgery, 2007 - 2016
Member, Medical School Admissions Committee, UCLA School of Medicine, 2008 – 2010
Member, Membership Committee, Society of University Surgeons, 2008 - 2011
Chair, Scientific Committee, Pacific Association of Pediatric Surgeons, 2009 - 2013
Member, Publication Committee, American Pediatric Surgical Association, 2009 – 2012
Editorial Consultant, Journal of Pediatric Surgery, 2010 – Present
Ad hoc Member, Bioengineering, Technology, Surgical Sciences Study Section, NIH, 2011 – 2015
Editorial Board, Technology, 2012 - Present
Member, American Surgical Association, 2013 - Present
Member, Education Committee, Society of University Surgeons, 2014 – 2017

Member, Work Force Committee, American Pediatric Surgical Association, 2014 - 2017
Secretary, Pacific Association of Pediatric Surgeons, 2014 – 2019
Standing Member, Bioengineering, Technology, Surgical Sciences Study Section, NIH, 2016 – 2020
Member, Surgeon-in-chief Leadership Committee, Children's Hospital Association, 2017 - 2020
Editorial Board, Pediatric Surgery International, 2018 – Present
Member, JEDI Council, Department of Surgery, Stanford, 2020 - Present

HONORS AND AWARDS

Caltech Prize, 1982 & 1983
AICHE Outstanding Student in Chemical Engineering, Caltech, 1984
Jack Froehlich Memorial Award, Caltech, 1984
Sigma Xi Award, Caltech, 1985
Chevron Scholarship, Caltech, 1985
Medical Scientist Training Program Fellowship, Harvard, 1985 - 1992
Medical Engineering Fellowship, M.I.T., 1985 - 1992
National Science Fellowship, M.I.T., 1986 - 1989
STAR Program, UCLA, 1994 - 1996
Outstanding Teaching Award in General Surgery, UCLA, 1999
Golden Scalpel Award for Assistant Professor in Surgery, UCLA, 2005-2006
Golden Scalpel Award for Associate Professor in Surgery, UCLA, 2008-2009, 2009–2010, 2010-2011
Golden Scalpel Award for Professor in Surgery, UCLA, 2011-2012
Pacific Association of Pediatric Surgeons Basic Science Prize, Mentor, 2011
Sheikh Zayed Institute Award for Innovation in Pediatric Surgery, Mentor, 2013
Jens Rosenkrantz Research Award, Mentor, 2013
Pacific Association of Pediatric Surgeons Basic Science Prize, Mentor, 2014
Pacific Association of Pediatric Surgeons Basic Science Prize, Mentor, 2016
American Pediatric Surgical Association Award for Innovation, Mentor, 2017
American Pediatric Surgical Association Award for Basic Science, Mentor, 2019

GRANTS

UCLA Chancellor's Fund for Academic Border Crossing, 2001, PI, $25,000
Fubon Foundation Grant, 2001 – 2006, PI, $300,000
Stein Oppenheimer Award, 2002, PI, $25,000
UCLA Academic Senate Grant, 2002, PI, $10,000
Glaser Pediatric Research Network, 2003 – 2009, PI, $100,000
American Surgical Association Foundation Award, 2003 – 2005, PI, $80,000
UCLA Academic Senate Grant, 2004, PI, $10,000
NIH NIDDK K08 DK068207, Adrenal Cortical Cell Therapy, 2005 – 2009, PI, $488,160
American Pediatric Surgical Association Foundation Award, 2006 – 2007, $25,000
Madisons Foundation Grant, Adrenal Cortical Stem Cell, 2006 – 2007, PI, $10,000
March of Dimes Research Grant, Intestinal Lengthening, 2006 – 2009, PI, $279,114

Stein Oppenheimer Award, 2007, PI, $25,000
NIH NIDDK U01 DK085535, Intestinal Stem Cell Culture, 2009 – 2014, PI, $1,891,711
NIH NIDDK R01 DK083319, Intestinal Tissue Engineering, 2010 – 2014, PI, $998,152
California Institute of Regenerative Medicine TG2-01169, Enteric Neural Regeneration, 2012 – 2014, PI, $257,400
Sun West Foundation Grant, Intestinal Lengthening, 2013 – 2015, PI, $150,000
NIH NIDDK R21 DK102048, Pilot Randomized Trial of Antibiotics vs. Surgery for Treating Acute Appendicitis, 2014-2016, co-investigator, $333,107
NIH NIDDK U01 DK085535, Intestinal Stem Cell Culture, 2014 – 2019, PI, $1,709,750
California Institute for Regenerative Medicine RT3-07914, Skin-derived Precursor Cells for the Treatment of Enteric Neuromuscular Dysfunction, 2015-2018, PI, $1,818,751
American College of Surgeons Resident Research Award, Intestinal Lengthening Through Distraction Enterogenesis of an Enterostomy, 2016-2018, PI, $60,000
Adolf Coors Foundation, Electroacupuncture and Skin Derived Precursor Cells, 2016-2018, PI, $170,000
National Science Foundation SBIR 1647917, Gastrointestinal Therapeutic Device for Alleviating Postoperative Ileus, 2016-2018, co-PI, $225,000
Coulter Foundation, 3D-Printed Springs for Intestinal Lengthening, 2017-2018, co-PI, $100,000
NIH NIDDK R21DK111216, Smooth Muscle Cell-based Assessment and Therapy for Myopathic Forms of CIPO, 2017-2019, co-PI, $462,300
NIH SPARC OT2 OD024899, Comprehensive Structural and Functional Mapping of Mammalian Colonic Nervous System, 2017-2022, co-investigator, $6,600,000
NIH NIDDK R01DK115728, Structure-based Optimization of Bioengineered Wnt Surrogates for Intestinal Stem Cell Biology and Therapy, 2018-2023, co-investigator, $2,300,000
NIH SPARC OT2 OD026577, Adaptation and Extension of Wireless Wearable Patch System for Non-invasive Measurement of Myoelectric Signals from Gastrointestinal Organs, 2018-2022, co-investigator, $246,241
Coulter Foundation, Clinical-grade Springs for Intestinal Lengthening, 2018-2019, co-PI, $50,000
National Science Foundation SBIR 1938625, An Ingestible Intraluminal Bioelectronic Capsule (IBC) for Closed-Loop Diagnosis and Treatment of Gastrointestinal Disorders, 2020-2021, co-investigator, $225,000.
National Science Foundation SBIR 2036538, Endoluminal Fixation of a Distraction Enterogenesis Device, 2020-2021, co-PI, $256,000.
Maternal Child Health Research Institute Transdisciplinary Initiative Program Award, In Vivo Evaluation of Short Bowel Function Using Soft Bioelectronic Sensors, 2021-2023, co-PI, $200,000
Maternal Child Health Research Institute IBD Research Program Award, Engineered Regulatory T Cells as an Autologous Immune Modulator for Pediatric Inflammatory Bowel Disease, 2021-2023, co-investigator, $200,000
NIH SBIR R44DK127658, Intestinal Lengthening via Distraction Enterogenesis for the Treatment of Short Bowel Syndrome, 2021-2023, co-investigator, $1,800,000
National Science Foundation SBIR 2052272, An Ingestible Intraluminal Bioelectronic Capsule (IBC) for Closed-Loop Diagnosis and Treatment of Gastrointestinal Disorders, 2021-2023, co-investigator, $999,999.

NIH NIDDK R01DK130972, Spring Mediated Enterogenesis, 2021-2025, PI, $880,000
NIH NIDDK R01D 32319, Piezo1&2's Role in Murine Intestinal Muscularis Cells of the SIP Syncitium, 2023-2027, MPI, $2,800,000
Maternal Child Health Research Institute Clinical Trainee Support, Catheter-injectable Gel for Spring-mediated Distraction Enterogenesis in Patients with Short Bowel Syndrome, 2023-2025, Mentor, $200,000.
Maternal Child Health Research Institute Postdoctoral Support, Mechanotransductive Roles of YAP and YAP-independent Regenerative Targets in Intestinal Stem Cell Differentiation and Epithelial Regeneration in Response to Mechanical Force, 2024-2025, Mentor, $135,000
Maternal Child Health Research Institute IBD Research Program Award, Catheter-injectable Drug-eluting Biodegradable Hydrogel for Inflammatory Bowel Disease Treatment, 2024-2026, co-PI, $107,943

PATENTS

Culturing Liver Cells, U.S. Patent Number 5,602,026, #07/717,857, 1997
Expandable Distension Device for Hollow Organ Growth, U.S. Patent Number 9,138,336, #13/252,790, 2015
Flexible and Stretchable Electrodes for Gastrointestinal Implants, U.S. Patent Number 10,391,310, #15/470,542, 2019
Degradable Intestinal Anchor, #15/973,062
Tumescent antibiotic injection for treatment of chronic skin and soft tissue infections, U.S. Patent Number 11,389,396 B2, #16/345,201, 2022
Methods to Lengthen Tubular Organs, U.S. Patent Number 11,998,437, #17/321,277, 2024

INVITED LECTURES

Grand Rounds, Department of Surgery, UCLA, 2003
Cells & Materials at the Tissue Engineering Interface, IPAM, UCLA, 2003
Southern California Tissue Engineering, UCSD, 2003
Jay Grosfeld Lectureship, Indiana University, 2005
Critical Issues in Craniofacial Reconstruction, France, 2005
Tissue Engineering of Intestine, American Academy of Pediatrics, 2008
Regenerative Pediatric Surgery, Grand Rounds, Department of Pediatrics, UCLA, 2009
Intestinal Lengthening, Department of Pediatrics, Chang Gung Hospital, 2011
iLengthening 3G, Taiwan Surgical Association Annual Meeting, Taiwan, 2011
Intestinal Lengthening, Chinese Surgical Association Annual Meeting, China, 2011
Intestinal Lengthening for Short Bowel Syndrome, Department of Surgery, Indiana University, 2013
Induced Esophageal Growth 5G, Department of Pediatric Surgery, Chang Gung Hospital, 2014
Intestinal Engineering for Short Bowel Syndrome, UCLA Children’s and Innovation Institute, 2015
Grand Rounds, Department of Surgery, UCLA, 2016
Advances in Pediatric Surgery, Neonatal and Pediatric Pearls, India, 2016
Current Status of Tissue Engineering, New Delhi, India, 2016

Intestinal Bioengineering, Department of Bioengineering, UCSD, 2016
Intestinal Bioengineering, Intestinal Failure Symposium, UCLA, 2016
Intestinal Bioengineering, Department of Bioengineering, Stanford, 2017
Mechanical-induced Intestinal Growth, American Academy of Pediatrics, 2017
Management of Short Bowel Syndrome and MIS Applications, International Symposium on MIS in Infants and Children, Vail, 2018
Growth Strategies, Children's Hospital Association, San Antonio, 2018
Using Mechanical Cues to Expand Engineered Intestine, Digestive Disease Week, San Diego, 2019
Human Skin-Derived Precursor Cells Xenografted in Aganglionic Bowel, Annual Congress Korean Surgical Association, Seoul, 2020
Road to Clinical Trial of an Intestinal Lengthening Device, Department of Pediatrics, UCLA, 2022
Intestinal Lengthening by Axial Distraction, LIFT-ECHO, 2022
Intestinal Lengthening Using Springs and Other Novel Strategies, CIRTA, 2023
Crossing the Valley of Death – an Intestinal Lengthening Journey, Department of Surgery, Stanford, 2023
Surgical Management of Short Bowel Syndrome, Children's Hospital of Fudan University, Shanghai, 2024

TEACHING EXPERIENCE

Teaching Assistant in Biology, Caltech, 1985
Medical Student Research Advisor for Akemi Kawaguchi, Cherie Parungo, Corey Downs, and Andrew Scott, Lissa Yu, UCLA Medical School, 1994 - 2008
Instructor for Medical Student Tutorials, UCLA School of Medicine, 1995 – 1997
Course Professor, Medical Student Clerkship in Surgery, UCLA School of Medicine, 2001 – 2016
Course Professor, Introduction to Tissue Engineering, UCLA School of Engineering, 2002 – 2005
Course Professor, Systems Integration in Biology, Engineering, and Medicine, UCLA School of Engineering, 2006 – 2016
Undergraduate Research Advisor for Brian Ho, Francisco Lei, Garret Ma, Chase Lyall, Jonathan Li, Cynthia Seun, Alireza Nazemi, Tiffany Yeh, Clara Posner, Taylor Schulte, UCLA Bioengineering Department, 2004 - 2016
Graduate Thesis Advisor for Min Lee, Yinting Chu, Edward Lee, Carrie Blalock, and Shivani Singh, Chris Walthers, Masae Kobayashi, Cassie Wang, Doug Steinberger, Rubina Francis, Steve Lin, Angela Chen, Mohammed Hantuli, UCLA Bioengineering Program, 2001 - 2018
Post-doctoral Research Advisor for Daniel DeUgarte, Devin Puapong, Sophia Chao, Jinyoung Park, Paul Chang, Julianne Mendoza, Harry Qin, Tatiana Zupekan, Shant Shekherdimian, Nicholas Lahar, Rebecca Stark, Ziyad Jabaji, Justin Wagner, Hassan Khalil, Veronica Sullins, Andrew Scott, Joshua Rouch, Nhan Huynh, Genia Dubrovsky, UCLA Department of Surgery, 2001 – 2018
Post-doctoral Research Advisor for Jordan Taylor, Eric Kramer, Seyedhadi Hosseini, Lauren Wood, Dupe Diyaolu, Fereshteh Salimi-Jazi, Talha Rafeeqi, Akanksha Sabapaty, Siavash

Shariazadeh, Nolan Lopez, Arshia Sazi, Gillian Fell, Pamela Emengo, Helene Nepomuceno, Stanford Department of Surgery, 2016 - current

BIBLIOGRAPHY

1. Dunn, J. and Revel, J. P. Association of gap junctions with endoplasmic reticulum in rat parotid glands. Cell and Tissue Research 238: 589-594, 1984
2. Dunn, J. C. Y., Yarmush, M. L., Koebe, H. G., and Tompkins, R. G. Hepatocyte function and extracellular matrix geometry: long-term culture in a sandwich configuration. FASEB Journal 3: 174-177, 1989
3. Koebe H. G., Dunn, J. C. Y., Toner, M., Sterling L. M., Hubel, A., Cravalho, E. G., Yarmush, M. L., and Tompkins, R. G. A new approach to the cryopreservation of hepatocytes in a sandwich configuration. Cryobiology 27: 576-584, 1990
4. Dunn, J. C. Y., Tompkins, R. G., and Yarmush, M. L. Long term in vitro function of adult hepatocytes in a collagen sandwich configuration. Biotechnology Progress 7: 731-739, 1991
5. Rotem, A., Lee, J., Dunn, J.C.Y., Friedberg, J., Toner, M., Tompkins, R.G., Yarmush, M.L. Hepatocyte engineering. The development of a bioartificial liver. Annals of Biomedical Engineering 19: 598-599, 1991.
6. Dunn, J. C. Y., Tompkins, R. G., and Yarmush, M. L. Hepatocytes in collagen sandwich: evidence for transcriptional and translational regulation. Journal of Cell Biology 116: 1043-1053, 1992. PMCID: PMC2289333.
7. Yarmush, M. L., Toner, M., Dunn, J. C. Y., Rotem, A., Hubel, A., and Tompkins, R. G. Hepatic tissue engineering: development of critical technologies. Annals of New York Academy of Sciences 665: 238-252, 1992
8. Dunn, J. C. Y., Friedberg, J. S., Tompkins, R. G., and Yarmush, M. L. Hepatocytes from rat liver perfusions: physicochemical effects on polyribosome size. ASAIO Journal 38: 841-845, 1992
9. Yarmush, M. L., Dunn, J. C. Y., and Tompkins, R. G. Assessment of artificial liver support technology. Cell Transplantation 1: 323-341, 1992
10. Dunn, J. C. Y., Tompkins, R. G., and Yarmush, M. L. Dynamics of transcriptional and translational processes in hepatocytes cultured in a collagen sandwich. Biotechnology and Bioengineering 41: 593-598, 1993
11. Ezzell, R. M., Toner, M., Hendrick, K., Dunn, J. C. Y., Tompkins, R. G., and Yarmush, M. L. Effect of collagen gel configuration on the cytoskeleton in cultured rat hepatocytes. Experimental Cell Research 208: 442-452, 1993
12. Dunn, J. C. Y., Whang, E. E., Newton, T. R., Zinner, M. J., McFadden, D. W., Ashley, S. W. Cholera toxin alters intestinal transport by neural mechanism. In: Keusch, G. T., Kawakami, M., editors. Cytokines, cholera, and the gut. Amsterdam: IOS Press, 1995: 89-92
13. Dunn, J. C. Y., Ashley, S. W. Surgery for esophageal disease in the elderly patient. In: Zenilman, M. E., editor. Problems in general surgery. Gastrointestinal surgery in the elderly. Volume 13. Hagerstown: Lippincott-Raven, 1996: 44-54
14. Whang, E. E., Dunn, J. C. Y., Mahanty, H., McFadden, D. W., Zinner, M. J., and Ashley, S. W. Endotoxin inhibitor prevents sepsis-induced alterations in intestinal ion transport. American Journal of Surgery 172: 341-344, 1996

15. Kawaguchi, A. L., Dunn, J. C. Y., Fonkalsrud, E. W. Management of peritoneal dialysis-induced hydrothorax in children. American Surgeon 62: 820-824, 1996
16. Whang, E. E., Dunn, J. C., Joffe, H., Mahanty, H., Zinner, M. J., McFadden, D. W., and Ashley, S. W. Enterocyte functional adaptation following intestinal resection. Journal of Surgical Research 60: 370-374, 1996
17. Whang, E. E., Dunn, J. C., Liu, C. C., Newton, T., Zinner, M. J., McFadden, D. W., and Ashley, S. W. Amiloride inhibits meal-stimulated colonic absorption. Journal of Surgical Research 60: 303-306, 1996
18. Dunn, J.C.Y., Whano, E.E., Kwan, K.Y., Ghana, C., McFadden, D.W., Ashlev, S.W. Post-translationau regulation of the intestinal sodiumglucose cotransporter along the crypt-villus axis. FASEB Journal 10: A770, 1996
19. Dunn, J. C. Y., Fonkalsrud, E. W. Improved survival of infants with omphalocele. American Journal of Surgery 173: 284-287, 1997
20. Dunn, J. C. Y., Parungo, C. P., Fonkalsrud, E. W., McFadden, D. W., and Ashley, S. W. Epidermal growth factor selectively enhances functional enterocyte adaptation after massive small bowel resection. Journal of Surgical Research 67: 90-93, 1997
21. Dunn, J. C. Y., Lai, E. C., Webber, M., Ament, M., Fonkalsrud, E. W. Long-term quantitative results following fundoplication and antroplasty for gastroesophgeal reflux and delayed gastric emptying in children. American Journal of Surgery 175:27-29, 1998
22. Dunn, J. C. Y., Lai, E. C., Stabile, B., Fonkalsrud, E. W. The outcome of research training during surgical residency. Journal of Pediatric Surgery, 33:362-364, 1998
23. Kawaguchi, A. L., Dunn, J. C. Y., Fonkalsrud, E. W. In vivo growth of transplanted genetically altered intestinal stem cells. Journal of Pediatric Surgery 33:559-563, 1998
24. Kawaguchi, A.L., Dunn, J.C.Y., Lam, M., O'Connor, T.P., Diamond, J., Fonkalsrud, E.W. Glucose uptake in dilated small intestine. Journal of Pediatric Surgery 33:1670-1673, 1998
25. Fonkalsrud, E.W.; Dunn, J.C.Y., Kawaguchi, A.L. Simplified technique for antegrade continence enemas for fecal retention and incontinence. Journal of the American College of Surgeons 187:457-460, 1998
26. Dunn, J. C. Y., Fonkalsrud, E. W., Atkinson, J. B. The influence of gestational age and mode of delivery on infants with gastroschisis. Journal of Pediatric Surgery 34:1393-1395, 1999
27. Dunn, J. C. Y., Fonkalsrud, E. W., Atkinson, J. B. Simplifying the Waterston's stratification of infants with tracheoesophageal fistula. American Surgeon 65:908-910, 1999
28. Dunn, J. C. Y., Fonkalsrud, E. W., Applebaum, H., Shaw, W. W., Atkinson, J. B. Reoperation after esophageal replacement in childhood. Journal of Pediatric Surgery 34:1630-1632, 1999
29. Fonkalsrud, E. W., Dunn, J. C. Y., Atkinson, J. B. Repair of pectus excavatum deformities: 30 years of experience with 375 patients. Annals of Surgery 231:443-448, 2000. PMCID: PMC1421017.
30. Kawaguchi, A. L., Dunn, J. C. Y., Saing, M. S., Cortina, G., Fonkalsrud, E. W. Functional and morphologic changes of the ileal mucosa after ileoanal pouch procedure. Journal of the American College of Surgeons 190:310-314, 2000

31. Kling K., Applebaum H., Dunn J., Buchmiller T. Atkinson J. A novel technique for correction of intestinal atresia at the ligament of Treitz. Journal of Pediatric Surgery 35:353-356, 2000
32. Whang E. E., Danial T., Dunn J. C., Ashley S. W., Reber H. A., Lewin T. J., Tompkins R. K. The spectrum of mucin-producing adenocarcinoma of the pancreas. Pancreas 21:147-151, 2000.
33. Dunn, J. C. Y., West, K. W., Rescorla, F. J., Scherer, L. R. III, Engum, S. A., Rouse, T. R., Smith, J. W., Grosfeld, J. L. The utility of lung biopsy in recipients of stem cell transplantation. Journal of Pediatric Surgery 36:1302-1303, 2001.
34. De Ugarte, D. A., Puapong, D., Roostaeian, J., Fonkalsrud, E. W., Atkinson, J. B., Dunn, J. C. Y. Surgisis patch tracheoplasty in a rodent model for tracheal stenosis. Journal of Surgical Research 1:65-69, 2003.
35. De Ugarte, D. A., Choi, E., Weitzbuch, H., Wulur, I., Caulkins, C., Wu, B., Fonkalsrud, E. W., Atkinson, J. B., Dunn, J. C. Y. Mucosal regeneration of a duodenal defect using SIS. American Surgeon 70:49-51, 2004.
36. Chou, Y. F., Chiou, W. A., Xu, Y., Dunn, J. C. Y., Wu, B.M. The effect of pH on the structural evolution of accelerated biomimetic apatite. Biomaterials 25:5323-5331, 2004.
37. Dunn, J.C.Y., Chu, Y., Lam, M.M., Wu, B.M., Atkinson, J.B., McCabe, E.R. Adrenal cortical cell transplantation. Journal of Pediatric Surgery 39(12): 1856-1858, 2004.
38. Park, J., Puapong, D.P., Wu, B.M., Atkinson, J.B., Dunn, J.C.Y. Enterogenesis by mechanical lengthening: morphology and function of the lengthened small intestine. Journal of Pediatric Surgery 39(12):1823-1827, 2004.
39. Brown DA, Chou YF, Beygui RE, Dunn J.C., Wu BM. Gelatin-embedded cell-polymer constructs for histological cryosectioning. J Biomed Mater Research B 72(1): 79-85, 2005.
40. Chou, Y. F., Huang, W., Dunn, J. C. Y., Miller, T. A., Wu, B.M. The effect of biomimetic apatite structure on osteoblast viability, proliferation, and gene expression. Biomaterials 26:285-295, 2005.
41. McWhorter, V., Dunn, J.C., Teitell, M.A. Aortoesophageal fistula as a complication of Montgomery salivary bypass tube. Journal of Pediatric Surgery, 40:742-744, 2005.
42. Brown, D.A., Beygui, R.E., MacLellan, W.R., Laks, H., Dunn, J.C.Y., Wu, B.M. Modulation of gene expression in neonatal rat cardiomyocytes by surface modification of polylactide-co-glycolide substrates, Journal of Biomedical Materials Research A 74(3): 419-429, 2005.
43. Chou, Y.F., Dunn, J.C., Wu, B.M. In vitro response of MC3T3-E1 preosteoblasts within three-dimensional apatite-coated PLGA scaffolds. J Biomed Mater Res B Appl Biomater. 75(1): 81-90, 2005.
44. Lee, M., Dunn, J.C.Y., Wu, B.M. Scaffold fabrication by indirect three-dimensional printing, Biomaterials 26:4281-4289, 2005.
45. Hagerman, E.M., Chao, S.H., Dunn, J.C.Y., Wu, B.M. Surface modification and initial adhesion events for intestinal epithelial cells. J Biomed Mater Res A 76(2): 272-278, 2006.
46. Puapong, D.P., Wu, B.M., Lam, M.M., Atkinson, J.B., Dunn, J.C.Y. Distension enterogenesis: increasing the size and function of small intestine, Journal of Pediatric Surgery 41(4): 763-767, 2006.

47. Dunn, J.C.Y., Chan, W., Cristini, V., Kim, J.S., Lowengrub, J., Singh, S., Wu, B.M. Analysis of cell growth in three-dimensional scaffolds, Tissue Engineering 12(4): 705-716, 2006.
48. Park, J., Dunn, J.C.Y., Atkinson, J.B. Management of children with pancreatic head mass, Journal of Pediatric Surgery 41(6): e1-e4, 2006.
49. Ho, W., Tawil, B., Dunn, J.C.Y., Wu, B.M. The behavior of human mesenchymal stem cells in 3D fibrin clots: dependence on fibrinogen concentration and clot structure, Tissue Engineering 12(6): 1587-1595, 2006.
50. Catelas, I., Sese, N., Wu, B.M., Dunn, J.C.Y., Helgerson, S., Tawil, B. Human mesenchymal stem cell proliferation and osteogenic differentiation in fibrin gels in vitro, Tissue Engineering 12(8): 1-12, 2006.
51. Mendoza, J., Chang, C., Blalock, C.L., Atkinson, J.B., Wu, B.M., Dunn, J.C.Y. Contractile function of the mechanically lengthened intestine. Journal of Surgical Research 136: 8-12, 2006.
52. Chang, P.C.Y., Mendoza, J. Park, J., Lam, M.M., Wu, B., Atkinson, J.B., Dunn, J.C.Y. Sustainability of mechanically lengthened bowel in rats. Journal of Pediatric Surgery 41: 2019-2022, 2006.
53. Chu, Y., Wu, B.M., McCabe, E.R., Dunn, J.C.Y. Serum-free cultures of murine adrenal cortical cells. Journal of Pediatric Surgery 41: 2008-2012, 2006.
54. Choi, C.H., Hagvall, S.H., Wu, B.M., Dunn, J.C.Y., Beygui, R.E., Kim, C.J. Cell interaction with three-dimensional sharp-tip nanotopography. Biomaterials 28: 1672-1679, 2007.
55. Lee, M., Chen, T.T., Iruela-Arispe, M.L., Wu, B.M., Dunn, J.C.Y. Modulation of protein delivery from modular polymer scaffolds. Biomaterials 28: 1862-1870, 2007.
56. Brown, D.A., MacLellan, W.R., Laks, H., Dunn, J.C., Wu, B.M., Beygui, R.E. Analysis of oxygen transport in a diffusion-limited model of engineered heart tissue. Biotechnology Bioengineering 97(4):962-975, 2007.
57. Mack, J.N., Cox, B.N., Lee, M., Dunn, J.C.Y., Wu, B.M. Magnetically actuable polymer nanocomposites for bioengineering applications. Journal of Materials Science 42(15): 6139-6147, 2007.
58. Dunn, J.C.Y., Lam, M.M., Lee, E. Increased expression of insulin-like growth factor in intestinal lengthening by mechanical force in rats. Journal of Pediatric Surgery 42(12): 2057-2061, 2007.
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BOOK CHAPTERS

1. Fonkalsrud, E. W., Dunn, J.C.Y. Adrenal. In: O'Neill, J. A., Jr., Rowe M. I., Grosfeld J. L., Fonkalsrud E. W., Coran A. G., editors. Pediatric Surgery. Fifth edition: 1555-1573, St. Louis: Mosby, 1997.

2. Dunn, J.C.Y., Kawaguchi, A.L., Fonkalsrud, E.W. Undescended testes and orchiopexy. In: van Heerden, J.A., Farley, D.R., Krummel, T., editors. Operative Techniques in General Surgery 6:269-280, Philadelphia: Saunders, 2004.
3. Chou, Y. F., Wulur, I., Dunn, J. C. Y., Wu, B. M. Biomimetic nano-ordered apatites, in Handbook of Nanostructured Biomaterials and Their Applications in Nanobiotechnology; edited by H.S. Nalwa. American Scientific Publishers Volume 2 (chapter 6): 198-222, 2005.
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6. Dunn, J.C.Y. Appendicitis. In: Coran, A.G., Adzick, N.S., Krummel, T.M., Laberge, J., Shamberger, R.C., Caldamone, A.A., editors. Pediatric Surgery. Seventh edition: 1255-1264. Philadelphia: Elsevier Saunders, 2012.
7. Dunn, J.C.Y. Short bowel syndrome. In Ladd, A.P., Rescorla, F.J., Grosfeld, J.L., editors. Handbook of Pediatric Surgical Patient Care: 731-738. Singapore: World Scientific, 2014.
8. Hsu, D. and Dunn, J.C.Y. Biliary atresia. In Ladd, A.P., Rescorla, F.J., Grosfeld, J.L., editors. Handbook of Pediatric Surgical Patient Care: 793-804. Singapore: World Scientific, 2014.
9. Dunn, J.C.Y. Intestinal bioengineering. In Clinical Transplants 32: 1-4, 2016.

PRESENTATIONS

1. AICHE Annual Meeting, Washington D.C., November, 1988. Development of a liver-cell bioreactor based on organized tissue restored by contact with extracellular matrix.
2. Cell Culture Engineering, Santa Barbara, December, 1989. Extracellular matrix configuration and long-term hepatocyte culture.
3. AICHE Annual Meeting, San Francisco, November, 1989. Hepatic tissue engineering.
4. FASEB Annual Meeting, New Orleans, March, 1989. Extracellular matrix configuration and long-term hepatocyte culture.
5. AICHE Annual Meeting, Chicago, November, 1990. Modulation of transcription and translation in cultured hepatocytes.
6. AICHE Annual Meeting, Los Angeles, November, 1991. Transcriptional and translational control in cultured hepatocytes.
7. Association for Academic Surgery Annual Meeting, Dearborn, November, 1995. Mechanisms of enterocyte maturation along the crypt-villus axis.
8. American Pediatric Surgical Association Annual Meeting, Boca Raton, May, 1995. Functional adaptation of the enterocyte following massive bowel resection.
9. VA Surgeons Annual Meeting, Pittsburgh, May, 1995. Amiloride inhibits meal-induced absorption in the colon.
10. FASEB Annual Meeting, Atlanta, April, 1995. Enterocyte isolation along the crypt-villus axis: evaluation of the calcium-chelating technique.
11. American Academy of Pediatrics Annual Meeting, Boston, October, 1996. Transplantation of genetically altered intestinal stem cells attached to synthetic membranes.

12. American College of Surgeons Annual Meeting, San Francisco, October, 1996. Transplantation of genetically altered intestinal stem cells attached to synthetic membranes.
13. American Gastroenterology Association Annual Meeting, San Francisco, May, 1996. Development of intestinal cell mediated gene therapy.
14. VA Surgeons Annual Meeting, Detroit, April, 1996. Epidermal growth factor selectively enhances functional enterocyte adaptation after massive small bowel resection.
15. FASEB Annual Meeting, Washington D.C., April, 1996. Post-translational regulation of the intestinal sodium-glucose cotransporter along the crypt-villus axis.
16. American College of Surgeons Southern California Chapter Annual Meeting, Santa Barbara, January, 1996. Management of 20 consecutive patients with omphalocele.
17. American Pediatric Surgical Association Annual Meeting, Naples, May, 1997. The outcome of research training during surgical residency.
18. Pacific Association of Pediatric Surgeons Annual Meeting, Phoenix, May, 1997. The influence of gestational age and mode of delivery on infants with gastroschisis.
19. Pacific Association of Pediatric Surgeons Annual Meeting, Maui, June, 1998. Simplified technique for antegrade continence enemas for fecal retention and incontinence
20. Pacific Association of Pediatric Surgeons Annual Meeting, Beijing, May, 1999. Reoperation after esophageal replacement in childhood.
21. American College of Surgeons Southern California Chapter Annual Meeting, Santa Barbara, January, 1999. Simplifying the Waterston's stratification of infants with tracheoesophageal fistula.
22. American Academy of Pediatrics Annual Meeting, Chicago, October, 2000. Utility of lung biopsy in stem cell transplant recipients.
23. American Academy of Pediatrics Annual Meeting, San Francisco, October, 2001. Outcome of modified Puestow procedure in children with chronic pancreatitis.
24. British Association of Pediatric Surgeons Annual Meeting, Esotril, July, 2003. Increased incidence of cholecystitis in young children with cancer.
25. Association for Academic Surgery Annual Meeting, Sacramento, November, 2003. Control of intestinal epithelial cell growth and differentiation by surface modification.
26. Pacific Association of Pediatric Surgeons Annual Meeting, Seoul, May, 2004. Transplantation of adrenal cortical cells.
27. Society of University Surgeons Annual Meeting, Nashville, February, 2005. Enterogenesis by mechanical lengthening.
28. American Pediatric Surgical Association Annual Meeting, Phoenix, May, 2005. Tissue engineering of the adrenal cortex.
29. Academic Surgical Congress Annual Meeting, San Diego, February, 2006. Contractile function of the mechanically lengthened intestine.
30. Pacific Association of Pediatric Surgeons Annual Meeting, Taipei, May, 2006. Serum-free cultures of murine adrenal cortical cells.
31. Pacific Association of Pediatric Surgeons Annual Meeting, Queenstown, April, 2007. Increased expression of insulin-like growth factor in intestinal lengthening by mechanical force in rats.
32. American College of Surgeons Annual Meeting, New Orleans, October, 2007. Transplantation of neural crest progenitor cells for Hirschsprung's disease.

33. Pacific Association of Pediatric Surgeons Annual Meeting, Hong Kong, May, 2009. Transplantation of neural crest cells for the treatment of Hirschsprung's disease.
34. American Pediatric Surgical Association Annual Meeting, Puerto Rico, May, 2009. Intestinal lengthening using an implantable spring: a novel approach for the treatment of short bowel syndrome.
35. American Pediatric Surgical Association Annual Meeting, Orlando, May, 2010. Transplantation of neural crest progenitor cells into murine aganglionic rectum.
36. Pacific Association of Pediatric Surgeons Annual Meeting, Kobe, May, 2010. Benzalkonium chloride treated anorectums mimicked endothelin-3 deficient aganglionic anorectums.
37. Academic Surgical Congress Annual Meeting, Huntington Beach, February, 2011. Controlled release of vascular endothelial growth factor enhances intestinal adaptation in rats with extensive small intestinal resection.
38. Pacific Association of Pediatric Surgeons Annual Meeting, Cancun, April, 2011. Restoration of mechanically lengthened jejunum into intestinal continuity in rats.
39. American Pediatric Surgical Association Annual Meeting, Palm Desert, May, 2011. Development of an intestinal lengthening capsule.
40. International Small Bowel Transplant Symposium, Washington DC, September, 2011. 24 weeks of intravenous fish oil safely reverses pediatric intestinal failure associated liver disease.
41. International Liver Transplant Symposium, San Francisco, May, 2012. Report of Intravenous Fish Oil for the Treatment of Post-Transplant Pediatric intestinal failure associated liver disease.
42. Pediatric Academic Society, Boston, April, 2012. Six months of intravenous fish oil reverses omega-6:omega-3 profiles and maintains growth.
43. Academic Surgical Congress Annual Meeting, Las Vegas, February, 2012. Formation of an intestinal epithelial surface using collagen gel.
44. Digestive Disease Week, San Diego, May, 2012. Intestinal subepithelial myofibroblasts enhance the growth of Lgr5 stem cells.
45. American Pediatric Surgical Association Annual Meeting, San Antonio, May, 2012. Regeneration of enteric ganglia in mechanically lengthened jejunum.
46. American Pediatric Surgical Association Annual Meeting, Marco Island, May, 2013. A novel biodegradable device for intestinal lengthening.
47. American College of Surgeons Annual Meeting, Washington D.C., October, 2013. Function of restored jejunum lengthened by a degradable spring.
48. American Academy of Pediatrics Annual Meeting, Orlando, October, 2013. Transplanted skin-derived precursor stem cells generate enteric ganglion-like structures in vivo.
49. American Academy of Pediatrics Annual Meeting, Orlando, October, 2013. Glucose absorption of mechanically lengthened jejunum after restoration into continuity.
50. Academic Surgical Congress Annual Meeting, San Diego, 2014. A novel in vivo model of permanent intestinal aganglionosis.
51. Pacific Association of Pediatric Surgeons Annual Meeting, Banff, May, 2014. Intestinal lengthening in an innovative rodent surgical model.
52. Pacific Association of Pediatric Surgeons Annual Meeting, Banff, May, 2014. Skin-derived precursors generate enteric-type neurons in aganglionic jejunum.

53. Pacific Association of Pediatric Surgeons Annual Meeting, Banff, May, 2014. Endoscopic model of Hirschsprung's disease in mouse.
54. Pacific Association of Pediatric Surgeons Annual Meeting, Banff, May, 2014. A durable model of Hirschsprung's colon.
55. Pacific Association of Pediatric Surgeons Annual Meeting, Banff, May, 2014. Global comparison of pediatric surgery workforce.
56. American Academy of Pediatrics Annual Meeting, San Diego, October, 2014. A novel method of esophageal lengthening in a large animal model of long-gap esophageal atresia.
57. American Academy of Pediatrics Annual Meeting, San Diego, October, 2014. Repeated mechanical lengthening of intestinal segments in a novel model.
58. American Pediatric Surgical Association Annual Meeting, Fort Lauderdale, May, 2015. Orthotopic epithelial cell replacement in the small intestine.
59. International Small Bowel Transplant Symposium, Buenos Aires, June, 2015. The evolution of plasma phytosterols and cytokines and erythrocyte polyunsaturated fatty acids in children with intestinal failure associated liver disease who received six months of intravenous fish oil.
60. American Academy of Pediatrics, Washington DC. October, 2015. Fibroblast Growth Factor eluting microspheres enhance distraction enterogenesis.
61. American Academy of Pediatrics, Washington DC. October, 2015. Mechanical lengthening in multiple intestinal segments in series.
62. American Academy of Pediatrics, Washington DC. October, 2015. Long-term renewable human intestinal epithelial stem cells as monolayers: A potential for clinical use.
63. Academic Surgical Congress, Jacksonville, February, 2016. The feasibility of spring mediated extra-peritoneal intestinal lengthening.
64. Pacific Association of Pediatric Surgeons Annual Meeting, Kauai, April, 2016. Scalability of an endoluminal spring for distraction enterogenesis.
65. Pacific Association of Pediatric Surgeons Annual Meeting, Kauai, April, 2016. Spring-mediated distraction enterogenesis in-continuity.
66. Academic Surgical Congress Annual Meeting, Las Vegas, February, 2017. Subcutaneous cefazolin to reduce surgical site infection in a porcine model.
67. Academic Surgical Congress Annual Meeting, Las Vegas, February, 2017. Feasibility and scalability of spring parameters in distraction enterogenesis in a murine model.
68. Academic Surgical Congress Annual Meeting, Las Vegas, February, 2017. Stem cell expansion in spring mediated distraction enterogenesis in a murine model.
69. American Pediatric Surgical Association Annual Meeting, Hollywood, May, 2017. Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis.
70. Pacific Association of Pediatric Surgeons Annual Meeting, Seattle, May, 2017. Double plication for spring-mediated intestinal lengthening of a defunctionalized Roux limb.
71. Pacific Association of Pediatric Surgeons Annual Meeting, Seattle, May, 2017. Novel technique for colonic ganglionic ablation in a large animal model.
72. American College of Surgeons Annual Meeting, San Diego, October, 2017. Lgr5 stem cell proliferation from spring-mediated distraction enterogenesis in a mouse model.
73. Academic Surgical Congress Annual Meeting, Jacksonville, January, 2018. Double plication for spring-mediated in-continuity intestinal lengthening in a porcine model.

74. American Pediatric Surgical Association Annual Meeting, Palm Desert, May, 2018. Intestinal electrical stimulation to increase the rate of peristalsis.
75. American Pediatric Surgical Association Annual Meeting, Palm Desert, May, 2018. Intestinal lengthening via multiple in-continuity springs.
76. Pacific Association of Pediatric Surgeons Annual Meeting, Sapporo, May, 2018. Electro-acupuncture to increase neuronal stem cell growth as a potential treatment for aganglionic and neuropathic diseases.
77. Conference on Advancing Analysis and Simulation in Engineering, Cleveland, June, 2018. Finite element modeling as a computational approach to study biomechanics of short bowel syndrome.
78. Academic Surgical Congress Annual Meeting, Houston, February, 2019. Varying degrees of plication to optimize spring-mediated intestinal lengthening.
79. Pacific Association of Pediatric Surgeons Annual Meeting, Christchurch, March, 2019. Collagen organization in a porcine model of spring-mediated distraction enterogenesis.
80. American Pediatric Surgical Association Annual Meeting, Boston, May, 2019. Autologous transplantation of skin-derived precursor cells in a porcine model.
81. American Pediatric Surgical Association Annual Meeting, Boston, May, 2019. Natural excretion of endoluminal springs after spring-mediated intestinal lengthening.
82. Society of Academic Asian Surgeons Annual Meeting, Boston, September, 2019. Irreversible electroporation for de-epithelialization of murine small intestine
83. American College of Surgeons Annual Meeting, San Francisco, October, 2019. Proximal and distal behaviors of small intestinal layers in a porcine model of spring-mediated distraction enterogenesis.
84. Academic Surgical Congress Annual Meeting, Virtual, February, 2020. Mechanical lengthening of porcine small intestine with minimal force.
85. American Pediatric Surgical Association Annual Meeting, Virtual, June, 2020. Spring-mediated intestinal lengthening in a short gut model.
86. American Pediatric Surgical Association Annual Meeting, Virtual, June, 2020. Human skin-derived precursor cells xenografted in aganglionic bowel.
87. American Pediatric Surgical Association Annual Meeting, Virtual, June, 2020. Mesenteric neovascularization during spring-mediated intestinal lengthening.
88. International Pediatric Intestinal Failure and Rehabilitation Symposium, Virtual, June, 2020. The health-economic potential of intestinal lengthening in pediatric short bowel syndrome patients.
89. American College of Surgeons Annual Meeting, Virtual, October, 2020. Lengthening of murine colon using an intraluminal spring.
90. Pacific Association of Pediatric Surgeons Annual Meeting, Virtual. November, 2020. Small intestinal lengthening using weak intraluminal springs in series.
91. Pacific Association of Pediatric Surgeons Annual Meeting, Virtual. November, 2020. Gut myoelectric activity and effects of anesthesia: measurements with external patch electrodes.
92. Pacific Association of Pediatric Surgeons Annual Meeting, Virtual. November, 2020. How many springs does it take: Evaluation of spring-mediated intestinal lengthening.
93. American College of Surgeons Annual Meeting, Virtual, October, 2021. The effect of spring diameter on porcine distraction enterogenesis.

94. American College of Surgeons Annual Meeting, Virtual, October, 2021. Generation of porcine ileum through spring-mediated mechanical distraction.
95. American Academy of Pediatrics Annual Meeting, Virtual, October, 2021. Generation of Porcine ileum through spring-mediated mechanical distraction.
96. Pacific Association of Pediatric Surgeons Annual Meeting, Virtual, November, 2021. The effect of spring diameter on porcine distraction enterogenesis.
97. Academic Surgical Congress Annual Meeting, Orlando, February, 2022. Internal plication method for spring mediated distraction enterogenesis in a porcine model.
98. Academic Surgical Congress Annual Meeting, Orlando, February, 2022. Validation of GI motility patch measurements via simultaneous internal electrodes in a porcine model.
99. Academic Surgical Congress Annual Meeting, Orlando, February, 2022. Human intestinal epithelial cell transplantation into a rodent model.
100. Pediatric Academic Society Annual Meeting, Denver, April, 2022. Loss of smooth muscle cell Piezo1 leads to impaired contractility in the small bowel.
101. Pediatric Academic Society Annual Meeting, Denver, April, 2022. Spring-mediated distraction enterogenesis alters the course of adaptation in short bowel syndrome.
102. American Pediatric Surgical Association Annual Meeting, San Diego, May, 2022. Long-term safety of intraluminal spring-mediated bowel lengthening.
103. American Pediatric Surgical Association Annual Meeting, San Diego, May, 2022. Epithelial ion transport in spring-lengthened jejunum in a porcine model.
104. Pacific Association of Pediatric Surgeons Annual Meeting, Quito, September, 2022. The importance of ileum and colon in patients with short bowel syndrome.
105. American College of Surgeons Annual Meeting, San Diego, October, 2022. Stem cell activation during distraction enterogenesis in murine colon.
106. American College of Surgeons Annual Meeting, San Diego, October, 2022. Mechanical distraction enterogenesis utilizing springs has equal effectiveness in adult and juvenile pigs.
107. Academic Surgical Congress Annual Meeting, Orlando, February, 2023. WNT and R-spondin enhance the proliferation of transplanted intestinal epithelial cells.
108. American Pediatric Surgical Association Annual Meeting, Orlando, May, 2023. Submucosal hydrogel for spring-mediated intestinal lengthening.
109. American Pediatric Surgical Association Annual Meeting, Orlando, May, 2023. Ciliary-mediated hedgehog signaling underlying mechanical intestinal lengthening.
110. American College of Surgeons Annual Meeting, Boston, October, 2023. Mechanosensitivity and adaptive capacity of the intestinal wall in a partial obstruction murine model.
111. American College of Surgeons Annual Meeting, Boston, October, 2023. Non-canonical ciliary-mediated hedgehog signaling underlying cecal lengthening.
112. Academic Surgical Congress Annual Meeting, Orlando, February, 2024. Correlation of focal adhesion with intestinal crypt fission under mechanical force in a murine model.
113. Academic Surgical Congress Annual Meeting, Orlando, February, 2024. YAP-associated smooth muscle cell proliferation leads to muscle thickening in intestinal obstruction.
114. Academic Surgical Congress Annual Meeting, Orlando, February, 2024. Effect of intestinal epithelial Piezo1 gene deletion on murine distraction enterogenesis.

115. American Pediatric Surgical Association Annual Meeting, Phoenix, May, 2024. Intestinal stem cell renewal and differentiation in response to mechanical force during epithelial regeneration.