

Prashanth Porayette

Pediatric Gastroenterology
Riley Hospital for Children
705 Riley Hospital Dr, ROC 4210
Indianapolis, IN 46202
(317) 944 3774

Primary Appointments:

- June 2012-Present **Academic Pediatric Gastroenterologist**, Indiana University School of Medicine, Indianapolis.
- July 2009-June 2012 **Senior Pediatric House Staff**, Indiana University School of Medicine, Indianapolis.
- Dec 2007-June 2009 **Research Associate**, Dr. Mervin C Yoder Laboratory, Wells Center for Pediatric Research, Indiana University School of Medicine, Indianapolis, IN.
- 2000-2001 **Research Internship**, Department of Microbiology, Gujarat Cancer Research Institute, Gujarat, India.

Post-Graduate Education:

- 2001- 2007 **Ph.D and Graduate Research Assistant**, Dr. Robert F Paulson Laboratory, Molecular Medicine Graduate Program, The Huck Institutes of the Life Sciences, The Pennsylvania State University, PA.
- Aug 2002-Aug 2003 **Teaching Assistant** for Biology 210 (Physiology)
The Pennsylvania State University, Department of Biology, University Park, PA
- 1993-1999 **M.B.,B.S - Bachelor of Medicine & Bachelor of Surgery**
Pramukhswami Medical College, Sardar Patel University, Gujarat, India.

Professional Memberships:

ASH (American Society of Hematology)
AAP (American Academy of Pediatrics)
NASPGHAN (North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition)
ACG (American College of Gastroenterology)
AGA (American Gastroenterology Association)
CCFA (Crohn's and Colitis Foundation of America)
AMA (American Medical Association)

Awards and Scholarships:

- Nov 2009- June 2015 **Morris Green Physician Scientist Development Program**, Indiana University School of Medicine.

A competitive program which provides scholarship to candidates (among Indiana University Pediatric residency and fellowship training candidates) who have shown potential for development into successful physician scientists. This scholarship provides an additional annual income of \$12,000 over peers in the field. It also provides research support of \$3000 yearly for research activities.

July 2013 Certificate of Achievement- Introduction to the Practice of Medicine: Residents as Teachers Competency Course, Indiana University School of Medicine

Certificate showing competency in teaching residents, medical and graduate students

Feb 2013 Riley Children's Foundation Grant Award

For studying "Role of vitamin D in children with chronic hepatitis C". This provides research support of \$3000 yearly until completion of study.

May 2007 **Judge**, Annual State Meeting, Pennsylvania Junior Academy of Science, The Pennsylvania State University.

Aug 2006 The Huck Institute of the Life Sciences **Graduate Research Grant**, Pennsylvania State University.

Awarded to graduate trainees who have shown good research aptitude which pays for tuition and provides a stipend for the entirety of the training.

Aug 2006 Cold Spring Harbor Laboratories Research **Travel Award**, Cold Spring Harbor, New York.

Awarded to candidates whose outstanding research work is to be presented at the conference.

Invited Presentations:

Prashanth Porayette and Brian McFerron. IBD for the Pediatrician. *Lafayette Medical Education Foundation*, Lafayette, IN, December 2014.

Invited talk to be given to about 30 pediatricians regarding how to manage Inflammatory Bowel Disease as a pediatrician. IBD is a gastrointestinal disease with serious morbidity and mortality.

Prashanth Porayette and Sandeep Gupta. Up, Close and Personalized Medicine. *North American Society for Pediatric Gastroenterology Hepatology and Nutrition (NASPGHAN)* Annual Meeting and Postgraduate Course, Atlanta, GA, October 2014.

Invited talk in Meet the Professor Breakfast sessions at NASPGHAN. This is the biggest annual pediatric GI conference. Usually attended by about 1200 pediatric gastroenterologists.

Prashanth Porayette and Sandeep Gupta. Primer on Personalized Medicine. *American College of Gastroenterology (ACG) Midwest Regional Postgraduate Course* August 22-24, 2014, Indianapolis, IN.

Invited talk to this annual meeting of ACG, the premier gastroenterology body in the US. They hold regional conferences every year.

Porayette, Prashanth Moderator, Poster Discussion Symposium, 11th Annual Pediatric Scholars Day, Indiana University School of Medicine, May 21, 2014.

Prashanth Porayette. Gastroesophageal Reflux Disease for the Pediatrician. Riley Morning Resident Rounds, Indiana University School of Medicine, Indianapolis, IN, April 2014.

Talk on GERD to about 50 pediatricians, pediatric residents, and medical students at Riley IU.

Prashanth Porayette. Gastrointestinal manifestations of Cystic Fibrosis. Pulmonary/ GI Joint CME Conference, Indiana University School of Medicine, Indianapolis, IN, February 2013.

Talk on GI aspects of a multi-system disease. Audience included about 30 pediatric gastroenterologists and pediatric pulmonologists.

Prashanth Porayette, Momoko Yoshimoto, Mark Kaplan, and Mervin C. Yoder. Lymphoid Precursors Arise Independently at Multiple Sites During Development. *American Society of Hematology*, Fifty-First Annual Meeting and Exposition, New Orleans, LA, December 2009.

This is the premier annual hematology meeting attended by over 20,000 hematology professionals.

Prashanth Porayette, Momoko Yoshimoto, Mark Kaplan, and Mervin C. Yoder. Lymphoid Precursors Arise Independently at Multiple Sites During Development. *7th Midwest Blood Club Meeting*, Cincinnati, OH, April 2008.

Prashanth Porayette and Robert Paulson. Department of Veterinary and Biomedical Sciences *Research Retreat*. BMP4/Madh5 dependent signaling is required for the initial expansion of erythroid progenitors in the fetal liver. April 2007.

The common theme of my research career has been care of the pediatric patient by identifying pathogenesis of disease seen in the developing embryo or the young and using this new knowledge in developing new targets for treatment and in better application of therapeutic models.

Published Abstracts:

Prashanth Porayette, Girish Subbarao, Shamaila Waseem, (2013). A rare case of complicated pan- colonic diverticulosis in a healthy teenager. Submitted. *North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition*, Annual Meeting and Exposition, Chicago, IL, October 10-12, 2013.

Momoko Yoshimoto, Prashanth Porayette, Nicole Glosson, Mark Kaplan and Mervin Yoder, (2011). Multipotent progenitors arise in the extra-embryonic yolk sac prior to HSC emergence in the mouse embryo. *International Society for Stem Cell Research, 9th Annual Meeting*, Toronto, Canada. June 15-18, 2011.

Momoko Yoshimoto, Encarnacion Montecino-Rodriguez, Prashanth Porayette, Kenneth Dorshkind and Mervin C. Yoder, (2009). B Lymphocytes Emerge De Novo Independently in the YS and PSP Before E10, but Lack B-2 Potential. *American Society of Hematology*, Fifty-First Annual Meeting and Exposition, New Orleans, LA, December 5-8, 2009.

Momoko Yoshimoto, Encarnacion Montecino-Rodriguez, Prashanth Porayette, William C. Shelly, Kenneth Dorshkind, Mervin C. Yoder, (2008). B-1 B cell origin in the murine embryo. *37th Annual Meeting of International Society for Experimental Hematology*, Boston, MA, July 9-12, 2008.

Omid F. Harandi, Shailaja Hegde, Daniel McKeone, Prashanth Porayette and Robert F. Paulson, (2008). BMP4 signaling is required to promote the expansion of stress erythroid progenitors during the recovery from bone marrow transplant. *6th Annual Meeting of International Society for Stem Cell Research*, June 11-14, 2008, Philadelphia, PA

Toshihiko Tanno, Prashanth Porayette, Ajoy Bhupatiraju, Pamela Staker, Y. Terry Lee, Suthat Fucharoen, Robert F. Paulson, and Jeffery L. Miller (2007). Twisted Gastrulation (TWSG1) is expressed at elevated levels in Thalassemia and regulates Bone Morphogenic Protein signaling. *American Society of Hematology*. Forty-ninth Annual Meeting and Exposition, December 7-11, 2007.

Prashanth Porayette and Robert F. Paulson, (2007). Role of BMP4 signaling in regulating fetal erythropoiesis. *27th Great Lakes Mammalian Development Meeting*, Samuel Lunenfeld Research Institute, Toronto, Canada, March 1-3, 2007.

Prashanth Porayette and Robert F. Paulson, (2006). BMP4/Madh5 dependent signaling is required for the initial expansion of erythroid progenitors in the fetal liver. *15th Conference on Hemoglobin Switching*, Oxford, U.K. September 14- 18, 2006.

Prashanth Porayette and Robert F. Paulson, (2006). BMP4/Madh5 dependent signaling is required for the initial expansion of erythroid progenitors in the fetal liver. *Mouse Molecular Genetics Meeting*, Cold Spring Harbor Laboratory, August 31- September 3, 2006.

Prashanth Porayette and Robert F. Paulson, (2005). Role of BMP4 in Fetal liver erythropoiesis. *American Society of Hematology*. Forty- seventh Annual Meeting and Exposition, December 3-6, 2005.

Prashanth Porayette and Robert F. Paulson, (2004). Role of BMP4 in Fetal liver erythropoiesis. *23rd Summer symposium in Molecular Biology, "Hematopoiesis and Immune Cell Function."* *Molecular Mechanisms of Regulation*, July 24-27, 2004, Pennsylvania State University, Pennsylvania.

Prashanth Porayette and Robert F. Paulson, (2004). Analysis of BMP4 expression during fetal liver hematopoiesis. *24th Great Lakes Mammalian Development Meeting*, Samuel Lunenfeld Research Institute, Toronto, Canada, March 6-7, 2004,

Robert F. Paulson, Laurie Lenox, John Perry, Prashanth Porayette, (2002). BMP4 and Smad5 Regulate the Erythroid Response to Acute Anemia in the adult spleen. *American Society of Hematology*. Forty- fourth Annual Meeting and Exposition, December 6-10, 2002.

PUBLICATIONS:

Peer-Reviewed Publications:

Prashanth Porayette, David Flockhart, and Sandeep Gupta, (2014). One size fits one: pharmacogenetics in gastroenterology. *Clinical Gastroenterology and Hepatology* 2014 April; 12 (4): 565-70.

Momoko Yoshimoto, **Prashanth Porayette**, Nicole Glosson, Simon Conway, Nadia Carlesso, Angelo Cardoso, Mark Kaplan, and Mervin Yoder, (2012). Autonomous T cell progenitor production in the extra-embryonic yolk sac before HSC emergence. *Blood* 2012 Jun 14; 119(24):5706-14.

Yoshimoto M, Montecino-Rodriguez E, Ferkowicz MJ, **Porayette P**, Dorshkind K, Yoder MC, (2011). Embryonic day 9 yolk sac and intra-embryonic hemogenic endothelium independently generate a B-1 and marginal zone progenitor lacking B-2 potential. *Proceedings of the National Academy of Sciences (PNAS)* 2011 Jan 25; 108(4):1468-73.

Toshihiko Tanno, **Prashanth Porayette**, Julia B. Goodnough, Orapan Sripichai, Seung-Jae Noh, Colleen Byrnes, Ajoy Bhupatiraju, Y. Terry Lee, Tomas Ganz, Robert F. Paulson, Jeffery L. Miller, (2009). Identification of TWSG1 as a second novel erythroid inhibitor of hepcidin expression in murine and human cells. *Blood* 2009 Jul 2; 114(1):181-6.

Momoko Yoshimoto, **Prashanth Porayette**, and Mervin C. Yoder, (2008). Overcoming obstacles in the search for the site of hematopoietic stem cell emergence. *Cell Stem Cell* 2008 Dec 4; 3(6):583-6.

John Perry, Omid Harandi, **Prashanth Porayette**, Shailaja Hegde, Arun Kannan and Robert F. Paulson, (2009). Maintenance of the BMP4 dependent stress erythropoiesis pathway in the murine spleen requires hedgehog signaling. *Blood* 2009 Jan 22; 113(4):911-8.

Prashanth Porayette and Robert F. Paulson, (2008). BMP4/Madh5 dependent signaling is required for the initial expansion of erythroid progenitors in the fetal liver. *Developmental Biology* 2008 May 1; 317(1):24-35.

Aparna Subramanian, Shailaja Hegde, **Prashanth Porayette**, Michele Yon, Pamela Hankey, and Robert F. Paulson. Friend Virus utilizes the BMP4 dependent stress erythropoiesis pathway to induce erythroleukemia (2008). *Journal of Virology* 2008 Jan; 82(1):382-93.

Hegde Shailaja, Lenox Laurie, Lariviere Andrew, **Porayette Prashanth**, Perry John, Yon Michele, Robert F. Paulson (2007). An intronic sequence mutated in flexed-tail mice regulates splicing of Smad5. *Mammalian Genome* 2007 Dec; 18(12):852-60.

Peer-Review Activities:

Requested Reviewer for:

Journal of Pediatric Gastroenterology and Nutrition
Diseases of the Esophagus
ACG Case Reports Journal
Pediatrics
Cell Stem Cell
Blood

2010-2015 Pediatric Scholarly Committee, Indiana University School of Medicine

Steering committee member which oversees research activities at Indiana University Department of Pediatrics and provides guidance and selection of research work for Annual Pediatric Scholar's Day.

Member of Crohn's and Colitis Network
Member of Improve Care Now