Stanford

Dorsey Bass

Associate Professor of Pediatrics (Gastroenterology), Emeritus

Pediatrics - Gastroenterology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Gastroenterology**
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Bio

CLINICAL FOCUS

- Gastroenterology/Nutrition/Hepatology, Pediatric
- Pediatric Gastroenterology

ACADEMIC APPOINTMENTS

- Professor Emeritus, Pediatrics - Gastroenterology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Dept of Pediatric Gastroenterology (1990) CA
- Residency: Boston City Hospital Pediatric Residency (1982) MA
- Internship: Boston City Hospital Pediatric Residency (1979) MA
- Medical Education: Vanderbilt University School of Medicine (1979) TN
- Board Certification: Pediatrics, American Board of Pediatrics (1987)
- Fellowship: Massachusetts General Hospital (1986) MA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Viral gastroenteritis is the single most important cause of diarrhea in infancy world-wide and accounts for enormous morbidity and mortality in children in both the developing and developed worlds. Our laboratory is interested in the pathogenesis of viral gastroenteritis, specifically in intestinal factors which are critical to the outcome of rotavirus infection which range from asymptomatic viral shedding to severe clinical disease. Previous observations have shown that rotavirus has both a narrowly defined tissue tropism, essentially mature enterocytes of the intestinal villus tip, and a fairly narrow host range restriction, causing disease mainly in suckling animals and usually only with viral strains derived from the same host species. We believe that local gastrointestinal factors determine the outcome of rotavirus infection. Specific studies include:

1) Cell receptors for rotavirus are being identified and characterized by a variety of biochemical and immunological approaches.

2) Rotavirus penetration of target cell membranes. Work from our lab has shown that this is a critical step in determing host cell susceptibility to the virus.

3) Role of enteric secretions on rotavirus pathogeneis. Rotavirus requires exogenous trypsin for replication. We are studying the effects of gastrointestinal proteases and acid secretion on rotavirus pathogeneis in vitro and in vivo.

4) Role of intestinal mucins as a defense mechanism against rotavirus.

5) Mucosal immunity and protection from enteric viral pathogens.

CLINICAL TRIALS

- Low Dose Oral Methotrexate in Pediatric Crohn's Disease Patients Initiating Anti-Tumor Necrosis Factor (Anti-TNF) Therapy, Not Recruiting

Publications

PUBLICATIONS

- **Syphting Through the Evidence: A Very Distinctive Cause of Neonatal Jaundice.** *Digestive diseases and sciences*
  Ruiz, R. M., Bass, D. M.
  2019
- **Histologic Features of Gastrointestinal Tract Biopsies in IgA Vasculitis (Henoch-Schonlein Purpura)** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
  Louie, C. Y., Gomez, A. J., Sibley, R. K., Bass, D., Longacre, T. A.
  2018; 42 (4): 529–33
- **Histologic Features of Gastrointestinal Tract Biopsies in IgA Vasculitis (Henoch-Schönlein Purpura).** *The American journal of surgical pathology*
  Louie, C. Y., Gomez, A. J., Sibley, R. K., Bass, D., Longacre, T. A.
  2018; 42 (4): 529-533
- **Growing Concerns: A 3-Year-Old Girl with Multiple Hepatic Masses and Gastrointestinal Bleeding** *DIGESTIVE DISEASES AND SCIENCES*
  Yang, C., Gomez, A., Haldipur, A., Berquist, W., Bass, D.
  2018; 63 (2): 329–33
- **A Mobile Infliximab Dosing Calculator for Therapy Optimization in Inflammatory Bowel Disease.** *Inflammatory bowel diseases*
  Piester, T. n., Frymoyer, A. n., Christofferson, M. n., Yu, H. n., Bass, D. n., Park, K. T.
  2018; 24 (2): 227–34
- **Outcome of tacrolimus and vedolizumab after corticosteroid and anti-TNF failure in paediatric severe colitis.** *BMJ open gastroenterology*
  Hamel, B. n., Wu, M. n., Hamel, E. O., Bass, D. M., Park, K. T.
  2018; 5 (1): e000195
- **Vitamin D: a brief overview of its importance and role in inflammatory bowel disease.** *Translational gastroenterology and hepatology*
  Mudambi, K., Bass, D.
  2018; 3: 31
- **Role of imaging in the evaluation of inflammatory bowel disease: How much is too much?** *World journal of radiology*
  Haas, K., Rubesova, E., Bass, D.
  2016; 8 (2): 124-131
- **Predictive Value of Fecal Calprotectin in Pediatric GVHD.** *Journal of pediatric gastroenterology and nutrition*
  Wadhwani, S. I., Nakayuenyongsuk, W. n., Shinn, L. n., Chase, P. n., Kharbanda, S. n., Bass, D. n., Park, K. T.
  2016
- **Out-of-pocket Cost Burden in Pediatric Inflammatory Bowel Disease: A Cross-sectional Cohort Analysis** *INFLAMMATORY BOWEL DISEASES*
  Sin, A. T., Damman, J. L., Ziring, D. A., Gleghorn, E. E., Garcia-Careaga, M. G., Gugig, R. R., Hunter, A. K., Burgis, J. C., Bass, D. M., Park, K. T.

2015; 21 (6): 1368-1377

- **Association between lichen sclerosus and celiac disease: a report of three pediatric cases.** *Pediatric dermatology*
  Jacobs, L., Gilliam, A., Khavari, N., Bass, D.
  2014; 31 (6): e128-31
- **Association Between Lichen Sclerosus and Celiac Disease: A Report of Three Pediatric Cases** *PEDIATRIC DERMATOLOGY*
  Jacobs, L., Gilliam, A., Khavari, N., Bass, D.
  2014; 31 (6): E128-E131
- **Utilization Trends of Anti-TNF Agents and Health Outcomes in Adults and Children with Inflammatory Bowel Diseases: A Single-center Experience.** *Inflammatory bowel diseases*
  Park, K. T., Sin, A., Wu, M., Bass, D., Bhattacharya, J.
  2014; 20 (7): 1242-1249
- **Infliximab for the treatment of granulomatous peritonitis.** *Digestive diseases and sciences*
  Yeh, A. M., Kerner, J., Hillard, P., Bass, D.
  2013; 58 (12): 3397-3399
- **Cost-effectiveness of Universal Serologic Screening to Prevent Nontraumatic Hip and Vertebral Fractures in Patients With Celiac Disease.** *Clinical gastroenterology and hepatology*
  Park, K. T., Tsai, R., Wang, L., Khavari, N., Bachrach, L., Bass, D.
  2013; 11 (6): 645-653
- **Cost-Effectiveness of Early Colectomy With Ileal Pouch-Anal Anastamosis Versus Standard Medical Therapy in Severe Ulcerative Colitis** *ANNALS OF SURGERY*
  Park, K. T., Tsai, R., Perez, F., Cipriano, L. E., Bass, D., Garber, A. M.
  2012; 256 (1): 117-124
- **Cost-effectiveness Analysis of Adjunct VSL#3 Therapy Versus Standard Medical Therapy in Pediatric Ulcerative Colitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Park, K. T., Perez, F., Tsai, R., Honkanen, A., Bass, D., Garber, A.
  2011; 53 (5): 489-496
- **Acute Liver Failure and Aplastic Anemia in an 11-Year-Old Girl** *DIGESTIVE DISEASES AND SCIENCES*
  Yeh, A. M., Mojtahed, A., Bass, D.
  2011; 56 (8): 2237-2240
- **Inflammatory Bowel Disease-Attributable Costs and Cost-effective Strategies in the United States: A Review** *INFLAMMATORY BOWEL DISEASES*
  Park, K. T., Bass, D.
  2011; 17 (7): 1603-1609
- **Immunophenotyping of Peripheral Eosinophils Demonstrates Activation in Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Tammie Nguyen, T., Gernez, Y., Fuentebella, J., Patel, A., Tirouvanziam, R., Reshamwala, N., Bass, D., Berquist, W. E., Cox, K. L., Kerner, J. A., Nadeau, K. C.
  2011; 53 (1): 40-47
- **Proton Pump Inhibitor Treatment for Congenital Chloride Diarrhea** *DIGESTIVE DISEASES AND SCIENCES*
  Pieroni, K. P., Bass, D.
  2011; 56 (3): 673-676
- **Analysis of clinical variables associated with tolerance in pediatric liver transplant recipients** *PEDIATRIC TRANSPLANTATION*
  Talisetti, A., Hurwitz, M., Sarwal, M., Berquist, W., Castillo, R., Bass, D., Concepcion, W., Esquivel, C. O., Cox, K.
  2010; 14 (8): 976-979
- **Increased HLA-DR Expression on Tissue Eosinophils in Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Patel, A. J., Fuentebella, J., Gernez, Y., Nguyen, T., Bass, D., Berquist, W., Cox, K., Sibley, E., Kerner, J., Nadeau, K.
  2010; 51 (3): 290-294

- **Increased Number of Regulatory T Cells in Children With Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Fuentebella, J., Patel, A., Nguyen, T., Sanjanwala, B., Berquist, W., Kerner, J. A., Bass, D., Cox, K., Hurwitz, M., Huang, J., Nguyen, C., Quiros, J. a., Nadeau, et al
  2010; 51 (3): 283-289
- **Eotaxin and FGF enhance signaling through an extracellular signal-related kinase (ERK)-dependent pathway in the pathogenesis of Eosinophilic esophagitis.** *Allergy, asthma, and clinical immunology : official journal of the Canadian Society of Allergy and Clinical Immunology*
  Huang, J. J., Joh, J. W., Fuentebella, J., Patel, A., Nguyen, T., Seki, S., Hoyte, L., Reshamwala, N., Nguyen, C., Quiros, A., Bass, D., Sibley, E., Berquist, et al
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- **Transcription Factors as Disease Indicators in Eosinophilic Esophagitis** *10th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
  Nguyen, T., Gernez, Y., Fuentella, J., Patel, A., Tirouvanziam, R., Reshamwala, N., Saper, V., Bass, D., Berquist, W., Kerner, J., Nadeau, K.
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- **Viral infections: new and emerging** *CURRENT OPINION IN GASTROENTEROLOGY*
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- **Abdominal Pain, Gastrointestinal Bleeding, and Weight Loss in a 17-Year-Old Male** *DIGESTIVE DISEASES AND SCIENCES*
  Fuentebella, J., Bass, D., Longacre, T., Ro, K.
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- **Laboratory evaluation of inflammatory bowel disease** *CURRENT OPINION IN PEDIATRICS*
  Wong, A., Bass, D.
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- **Recent advances and evidence gaps in persistent diarrhea** *3rd World Congress of Pediatric Gastroenterology, Hepatology and Nutrition*
  Bhutta, Z. A., Nelson, E. A., Lee, W. S., Tarr, P. I., Zablah, R., Phua, K. B., Lindley, K., Bass, D., Phillips, A.
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- **Use of serologic markers as a screening tool in inflammatory bowel disease compared with elevated erythrocyte sedimentation rate and anemia** *PEDIATRICS*
  Sabery, N., Bass, D.
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- **Gastrointestinal bleeding** *CLINICAL PEDIATRICS*
  Nguyen, P. C., Garcia-Careaga, M., Bass, D.
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- **Maturation and trafficking markers on rotavirus-specific B cells during acute infection and convalescence in children** *JOURNAL OF VIROLOGY*
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- **Intestinal Imaging of children with acute rotavirus gastroenteritis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
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- **Noncirrhotic portal hypertension in association with juvenile nephropathic cystinosis: Case presentation and review of the literature** *JOURNAL OF INHERITED METABOLIC DISEASE*
  DiDomenico, P., Berry, G., Bass, D., Fridge, J., Sarwal, M.
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- **Astrovirus, adenovirus, and rotavirus in hospitalized children: Prevalence and association with gastroenteritis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
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  Angel, J., Franco, M. A., Greenberg, H. B., Bass, D.
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- **Travel vaccines** *INFECTIOUS DISEASE CLINICS OF NORTH AMERICA*
  Thompson, R. F., Bass, D. M., HOFFMAN, S. L.
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  Rott, L. S., Rose, J. R., Bass, D., Williams, M. B., Greenberg, H. B., BUTCHER, E. C.
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- **DANSYLCADAVERINE AND CYTOCHALASIN-D ENHANCE ROTAVIRUS INFECTION OF MURINE L-CELLS** *VIROLOGY*
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- **Effects of cytokines on rotavirus infection of human CaCo 2 intestinal cells** *1995 Joint Meeting of the United-States/Japan Cooperative Medical Sciences Program Panels on Malnutrition and Cholera*
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- **VIRAL-INFECTIONS OF THE GASTROINTESTINAL-TRACT** *CURRENT OPINION IN GASTROENTEROLOGY*

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- **CHILDHOOD AND VIRAL-INFECTIONS** *CURRENT OPINION IN INFECTIOUS DISEASES*
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  Bass, D. M., Baylor, M. R., Chen, C., Mackow, E. M., Bremont, M., Greenberg, H. B.
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  Bass, D. M., Baylor, M., Broome, R., Greenberg, H. B.
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  Bass, D. M., MACKOW, E. R., Greenberg, H. B.
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  MACKOW, E. R., Vo, P. T., Broome, R., Bass, D., Greenberg, H. B.
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