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Mitchell B Cohen

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Pediatrics - Gastroenterology

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Mitchell B. Cohen, M.D., is a Professor in the Department of Pediatrics in the School of Medicine. He serves as the Chief Medical Officer for Stanford Medicine Children's Health and the Senior Associate Dean in the School of Medicine for Maternal and Child Health. From 2014-2024, he was the Katharine Reynolds Ireland Chair of Pediatrics at the University of Alabama at Birmingham and the Physician-in-Chief of Children's of Alabama. Prior to that, he served as the Director of Gastroenterology, Hepatology and Nutrition and Vice Chair of Pediatrics at Cincinnati Children's Hospital Medical Center.

Dr. Cohen was the founding Director of the P30 Cincinnati Digestive Health Center: Bench to Bedside Research in Pediatric Digestive Diseases
His research focused on the mechanism of action of E. coli heat stable enterotoxin, a worldwide cause of infant diarrhea. His laboratory identified that increased guanylyl cyclase (GC-C) receptors for this toxin contributed to the increased susceptibility and severity of diarrhea seen in infants. Identification of the endogenous ligands for GC-C, guanylin and uroguanylin, led to development of knockout mice and an evolving understanding of intestinal secretion and pharmacologic treatment through this ligand-receptor family. Dr. Cohen had a long-standing NIH-supported program of vaccine trials for enteric infection, including a validated human cholera challenge model which resulted in licensure of a cholera vaccine.

Dr. Cohen has held leadership positions in several professional capacities. He served as the only pediatrician on the NIH Commission on Digestive Diseases; he was chair of the Section on Growth, Development and Nutrition of the American Gastroenterological Association (AGA) and the Section on Gastroenterology, Hepatology and Nutrition (SOGHN) of the American Academy of Pediatrics; he was President of NASPGHAN, the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. Dr. Cohen was elected to membership in the Association of American Physicians and has received several lifetime achievement awards, including the Shwachman Award from NASPGHAN, the Saul Horowitz Jr. Award from Mt. Sinai, and the UAB Department of Pediatrics Lifetime Achievement Award.

CLINICAL FOCUS

- Pediatric Gastroenterology

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Pediatrics - Gastroenterology

ADMINISTRATIVE APPOINTMENTS

- Senior Associate Dean, Stanford Medicine Maternal and Child Health, (2025- present)
- Chief Medical Officer, Stanford Medicine Children's Health, (2025- present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Gastroenterology, American Board of Pediatrics (1990)
- Fellowship: Cincinnati Children's Hospital Pediatric Gastroenterology Fellowship (1986) OH
- Board Certification: Pediatrics, American Board of Pediatrics (1981)
- Residency: Johns Hopkins Children's Center Pediatric Residency Program (1980) MD
- Internship: Johns Hopkins Children's Center Pediatric Residency Program (1980) MD
- Medical Education: Icahn School of Medicine at Mount Sinai (1977) NY

Publications

PUBLICATIONS

- **Risk Categorization Predicts Disability in Pain-associated Functional Gastrointestinal Disorders After 6 Months** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Cunningham, N. R., Jagpal, A., Peugh, J., Farrell, M. K., Cohen, M. B., Mezoff, A. G., Lynch-Jordan, A., Kashikar-Zuck, S.
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- **Update on Diarrhea** *PEDIATRICS IN REVIEW*
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- **Comparison of Recommendations in Clinical Practice Guidelines for Acute Gastroenteritis in Children** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Lo Vecchio, A., Dias, J., Berkley, J. A., Boey, C., Cohen, M. B., Cruchet, S., Liguoro, I., Salazar Lindo, E., Sandhu, B., Sherman, P., Shimizu, T., Guarino, A.
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- **Single-dose Live Oral Cholera Vaccine CVD 103-HgR Protects Against Human Experimental Infection With Vibrio cholerae O1 El Tor** *CLINICAL INFECTIOUS DISEASES*
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- **Current Issues in Transitioning from Pediatric to Adult-Based Care for Youth with Chronic Health Care Needs** *JOURNAL OF PEDIATRICS*
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- **Concordant Parent-Child Reports of Anxiety Predict Impairment in Youth With Functional Abdominal Pain** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
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- **CNS, lung, and lymph node involvement in Gaucher disease type 3 after 11 years of therapy: Clinical, histopathologic, and biochemical findings** *MOLECULAR GENETICS AND METABOLISM*
  Burrow, T. A., Sun, Y., Prada, C. E., Bailey, L., Zhang, W., Brewer, A., Wu, S. W., Setchell, K. D. R., Witte, D., Cohen, M. B., Grabowski, G. A.
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- **Effect of Guanylate Cyclase-C Activity on Energy and Glucose Homeostasis** *DIABETES*

Begg, D. P., Steinbrecher, K. A., Mul, J. D., Chambers, A. P., Kohli, R., Haller, A., Cohen, M. B., Woods, S. C., Seeley, R. J.
2014; 63 (11): 3798-3804

- **Acid-Reducing Agents in Infants and Children Friend or Foe?** *JAMA PEDIATRICS*
  Menchise, A. N., Cohen, M. B.
  2014; 168 (10): 888-890
- **Role of Celiac Disease Screening for Children With Functional Gastrointestinal Disorders** *JAMA PEDIATRICS*
  Squires, J. E., Fei, L., Cohen, M. B.
  2014; 168 (6): 514-515
- **Safety and Immunogenicity of a Single Oral Dose of Recombinant Double Mutant Heat-Labile Toxin Derived from Enterotoxigenic (vol 20, pg 1764, 2013)** *CLINICAL AND VACCINE IMMUNOLOGY*
  El-Kamary, S. S., Cohen, M. B., Bourgeois, A., Van De Verg, L., Bauers, N., Reymann, M., Pasetti, M. F., Chen, W. H.
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- **Fecal microbiota transplantation for Clostridium difficile infection: benefits and barriers** *CURRENT OPINION IN GASTROENTEROLOGY*
  Lo Vecchio, A., Cohen, M. B.
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- **Linaclotide Inhibits Colonic Nociceptors and Relieves Abdominal Pain via Guanylate Cyclase-C and Extracellular Cyclic Guanosine 3′,5′-Monophosphate** *GASTROENTEROLOGY*
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- **Guanylate Cyclase C Deficiency Causes Severe Inflammation in a Murine Model of Spontaneous Colitis** *PLOS ONE*
  Harmel-Laws, E., Mann, E. A., Cohen, M. B., Steinbrecher, K. A.
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- **Safety and Immunogenicity of a Single Oral Dose of Recombinant Double Mutant Heat-Labile Toxin Derived from Enterotoxigenic Escherichia coli** *CLINICAL AND VACCINE IMMUNOLOGY*
  El-Kamary, S. S., Cohen, M. B., Bourgeois, A., Van De Verg, L., Bauers, N., Reymann, M., Pasetti, M. F., Chen, W. H.
  2013; 20 (11): 1764-1770
- **Guanylate cyclase C limits systemic dissemination of a murine enteric pathogen** *BMC GASTROENTEROLOGY*
  Mann, E. A., Harmel-Laws, E., Cohen, M. B., Steinbrecher, K. A.
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- **Acid Suppression and the Risk of Clostridium difficile Infection** *JOURNAL OF PEDIATRICS*
  Mezoff, E. A., Cohen, M. B.
  2013; 163 (3): 627-630
- **Importance of Addressing Anxiety in Youth With Functional Abdominal Pain: Suggested Guidelines for Physicians** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Cunningham, N. R., Lynch-Jordan, A., Mezoff, A. G., Farrell, M. K., Cohen, M. B., Kashikar-Zuck, S.
  2013; 56 (5): 469-474
- **Recurrent pancreatitis in ornithine transcarbamylase deficiency** *MOLECULAR GENETICS AND METABOLISM*
  Prada, C. E., Kaul, A., Hopkin, R. J., Page, K. I., Nathan, J. D., Bartholomew, D. W., Cohen, M. B., Heubi, J. E., Leslie, N. D., Burrow, T.
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- **sTREM-1 and LBP in Central Venous Catheter-associated Bloodstream Infections in Pediatric Intestinal Failure** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
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- **Role for the Membrane Receptor Guanylyl Cyclase-C in Attention Deficiency and Hyperactive Behavior** *SCIENCE*
  Gong, R., Ding, C., Hu, J., Lu, Y., Liu, F., Mann, E., Xu, F., Cohen, M. B., Luo, M.
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- **What Have We Learned About Early Treatment of Pseudomonas aeruginosa Infection in Infants and Children With Cystic Fibrosis?** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
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- **Murine Guanylate Cyclase C Regulates Colonic Injury and Inflammation** *JOURNAL OF IMMUNOLOGY*
  Steinbrecher, K. A., Harmel-Laws, E., Garin-Laflam, M. P., Mann, E. A., Bezerra, L. D., Hogan, S. P., Cohen, M. B.
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- **Transmembrane guanylate cyclase in intestinal pathophysiology** *CURRENT OPINION IN GASTROENTEROLOGY*
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- **Loss of Guanylyl Cyclase C (GCC) Signaling Leads to Dysfunctional Intestinal Barrier** *PLOS ONE*
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- **Lack of Guanylate Cyclase C results in increased mortality in mice following liver injury** *BMC GASTROENTEROLOGY*
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- **Linaclotide is a potent and selective guanylate cyclase C agonist that elicits pharmacological effects locally in the gastrointestinal tract** *LIFE SCIENCES*
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- **Guanylate cyclase C-mediated antinociceptive effects of linaclotide in rodent models of visceral pain** *NEUROGASTROENTEROLOGY AND MOTILITY*
  Eutamene, H., Bradesi, S., Larauche, M., Theodorou, V., Beaufrand, C., Ohning, G., Fioramonti, J., Cohen, M., Bryant, A. P., Kurtz, C., Currie, M. G., Mayer, E. A., Bueno, et al
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- **Teaching and Tomorrow: A Novel Recruitment Program for a Pediatric Subspecialty** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
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- **Clostridium difficile Infections: Emerging Epidemiology and New Treatments**
  Cohen, M. B.
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- **Activation of guanylate cyclase C signaling pathway protects intestinal epithelial cells from acute radiation-induced apoptosis** *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*
  Garin-Laflam, M. P., Steinbrecher, K. A., Rudolph, J. A., Mao, J., Cohen, M. B.
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- **Heat-stable enterotoxin of Escherichia coli (STa) can stimulate duodenal HCO3- secretion via a novel GC-C- and CFTR-independent pathway** *FASEB JOURNAL*
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  2008; 22 (5): 1306-1316

- **Presentation of the 2007 Murray Davidson award to Michael K. Farrell, MD** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Cohen, M. B.
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- **A randomized, double-blind, placebo-controlled trial of fluticasone propionate for pediatric eosinophilic esophagitis** *GASTROENTEROLOGY*
  Konikoff, M. R., Noel, R. J., Blanchard, C., Kirby, C., Jameson, S. C., Buckmeier, B. K., Akers, R., Cohen, M. B., Collins, M. H., Assa'ad, A. H., Aceves, S. S., Putnam, P. E., Rothenberg, et al
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- **The Bacteroides fragilis toxin binds to a specific intestinal epithelial cell receptor** *INFECTION AND IMMUNITY*
  Wu, S., Shin, J., Zhang, G., Cohen, M., Franco, A., Sears, C. L.
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- **The proximal convoluted tubule is a target for the uroguanylin-regulated natriuretic response** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
  Elitsur, N., Lorenz, J. N., Hawkins, J. A., Rudolph, J. A., Witte, D., Yang, L. E., McDonough, A. A., Cohen, M. B.
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- **Festschrift introduction - William F. Balistreri** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*

Cohen, M. B.
2006; 43: S1-S3

- **Eotaxin-3 and a uniquely conserved gene-expression profile in eosinophilic esophagitis** *JOURNAL OF CLINICAL INVESTIGATION*
  Blanchard, C., Wang, N., Stringer, K. F., Mishra, A., Fulkerson, P. C., Abonia, J. P., Jameson, S. C., Kirby, C., Konikoff, M. R., Collins, M. H., Cohen, M. B., Akers, R., Hogan, et al
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- **National Institutes of Health Consensus Development Conference Statement on Celiac Disease, June 28-30, 2004** *GASTROENTEROLOGY*
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- **Implementing an evidence-based acute gastroenteritis guideline at a children's hospital.** *The Joint Commission journal on quality improvement*
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