



## John Mark Gubatan

Instructor, Medicine - Gastroenterology & Hepatology

### CLINICAL OFFICES

- **Gastroenterology and Hepatology**

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### Bio

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#### BIO

Dr. Gubatan is a physician scientist, gastroenterologist, and instructor of medicine at Stanford University School of Medicine. He earned his medical degree from Harvard Medical School and completed his internship and residency in internal medicine at Harvard's Beth Israel Deaconess Medical Center. He completed his gastroenterology fellowship at Stanford where he served as chief fellow and was an American Gastroenterological Association (AGA) editorial fellow for Gastroenterology. Dr. Gubatan's research is focused on translational studies using single-cell genomics to understand mechanisms of biologic therapy failure, elucidate the role of host immune and gut microbiome interactions in the pathogenesis of inflammatory bowel disease (IBD), and develop precision medicine strategies to improve outcomes in patients with IBD. Dr. Gubatan's work has been featured in Gastroenterology, Gut, American Journal of Gastroenterology, Clinical Gastroenterology and Hepatology, Alimentary Pharmacology and Therapeutics, Journal of Crohns & Colitis, and Inflammatory Bowel Diseases. Dr. Gubatan's research and career development has been supported by a Chan Zuckerberg Biohub Physician Scientist Scholar Award, a Stanford Translational Research and Applied Medicine (TRAM) Scholar Award, an NIH NIDDK LRP Award, and a Doris Duke Charitable Foundation Physician Scientist Fellowship Award.

#### CLINICAL FOCUS

- Inflammatory Bowel Disease
- Ulcerative Colitis
- Crohn's Disease
- Gastroenterology

#### ACADEMIC APPOINTMENTS

- Instructor, Medicine - Gastroenterology & Hepatology
- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- Doris Duke Physician Scientist Fellowship Award, Doris Duke Charitable Foundation (DDCF) (2021-2023)
- ACG Outstanding Poster Presenter Award, American College of Gastroenterology (ACG) (2021)

- NCSCG Symposium 1st Place Abstract Award, Northern California Society for Clinical Gastroenterology (2021)
- Best Original Basic Science Article of 2020 Finalist, Inflammatory Bowel Diseases Journal (2020)
- Chief Fellow, Division of Gastroenterology and Hepatology, Stanford University (2020-2021)
- Chan Zuckerberg Biohub Physician Scientist Scholar Award, Chan Zuckerberg Biohub (2020-2023)
- AGA Gastroenterology Editorial Fellow, American Gastroenterological Association (AGA) (2020-2021)
- Clinical Research Loan Repayment Program (LRP) Award, National Institutes of Health (NIH)/NIDDK (2020-2022)
- Stanford Translational Research and Applied Medicine (TRAM) Scholar Award, Stanford University (2020-2022)
- Top Downloaded Paper Award in Alimentary Pharmacology & Therapeutics, Wiley Publishing (2020)
- Outstanding Reviewer Award, Experimental Biology and Medicine (2019)
- Robert W. Summers Grant Award, American Society for Gastrointestinal Endoscopy (ASGE) (2019)
- Third Annual Inflammatory Bowel Disease (IBD) Summit for Fellows Travel Award, Vindico Medical Education (2019)
- Senior Resident Medicine Grand Rounds Research Award, Beth Israel Deaconess Medical Center, Harvard University (2017)
- Harvard Open Access Publishing Equity (HOPE) Award, Harvard University (2016)
- Outstanding Abstract Award, Resident & Fellow Poster Competition, Beth Israel Deaconess Medical Center, Harvard (2016)
- Harvard Medical School Class of 1951 Endowed Scholarship, Harvard Medical School (2013)
- Harvard Dean Advisory Council Meeting Immunology Research Award, Harvard University (2011)
- Harvard Medical School Research Fellowship, Harvard Medical School (2011)
- Ambassador Award, Department of Chemistry, Michigan Tech University (2010)
- Outstanding Senior Award, Department of Chemistry, Michigan Tech University (2010)
- Summa Cum Laude, Michigan Tech University (2010)
- Amgen Scholarship, Stanford University School of Medicine (2009)
- Barry M. Goldwater Scholarship, The Barry Goldwater Scholarship and Excellence in Education Foundation (2009)
- Summer Honors Undergraduate Research Program (SHURP), Harvard University (2008)
- Summer Medical And Research Training (SMART) Program, Baylor College of Medicine (2007)
- Government of Guam Merit Scholar, University of Guam (2006-2007)
- NIH Research Initiative for Scientific Enhancement (RISE) Fellowship, University of Guam (2006-2007)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, American Gastroenterological Association (AGA) (2016 - present)
- Member, American College of Gastroenterology (ACG) (2016 - present)
- Member, Crohn's & Colitis Foundation (CCF) (2019 - present)
- Member, European Crohn's and Colitis Organisation (ECCO) (2016 - present)
- Member, Cochrane Collaboration (2020 - present)
- Member, American Society of Gastrointestinal Endoscopy (ASGE) (2018 - present)

## **PROFESSIONAL EDUCATION**

- Board Certification: Gastroenterology, American Board of Internal Medicine (2021)
- Fellowship: Stanford University Gastroenterology Fellowship (2021) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)
- Residency: Beth Israel Deaconess Medical Center Internal Medicine Residency (2017) MA

- Medical Education: Harvard Medical School (2014) MA
- Fellowship, Stanford University School of Medicine , Gastroenterology (2021)
- Residency, Beth Israel Deaconess Medical Center, Harvard Medical School , Internal Medicine (2017)
- M.D., Harvard Medical School , Medicine (2014)
- B.S., Michigan Tech University , Biochemistry and Molecular Biology (2010)

## Research & Scholarship

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### CLINICAL TRIALS

- Vitamin D Regulation of Gut Specific B Cells and Antibodies Targeting Gut Bacteria in Inflammatory Bowel Disease, Recruiting

### Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Gastroenterology & Hepatology (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Rates and Predictors of Long-term Clinical Outcomes in Patients With Perianal Crohn's Disease on Biologic Therapy.** *Journal of clinical gastroenterology*  
Gubatan, J., Frost, S., Levitte, S., Keyashian, K.  
2022
- **Selective tyrosine kinase 2 inhibitors in inflammatory bowel disease.** *Trends in pharmacological sciences*  
Nielsen, O. H., Boye, T. L., Chakravarti, D., Gubatan, J.  
2022
- **Disease exacerbation is common in inflammatory bowel disease patients treated with immune checkpoint inhibitors for malignancy.** *World journal of clinical cases*  
Rubin, S. J., Balabanis, T., Gubatan, J., Habtezion, A.  
2022; 10 (6): 1787-1794
- **Antimicrobial peptides and the gut microbiome in inflammatory bowel disease.** *World journal of gastroenterology*  
Gubatan, J., Holman, D. R., Puntasecca, C. J., Polevoi, D., Rubin, S. J., Rogalla, S.  
2021; 27 (43): 7402-7422
- **Immune Checkpoint Inhibitor-Mediated Colitis Is Associated With Improved Cancer Overall Survival**  
Weingarden, A. R., Gubatan, J., Balabanis, T., Patel, A., Singh, S., Habtezion, A.  
LIPPINCOTT WILLIAMS & WILKINS.2021: S1381
- **Biologic Therapy in Patients With Perianal Crohn's Disease and Association With Long-Term Rates of Surgical and Clinical Outcomes**  
Gubatan, J., Frost, S., Levitte, S., Keyashian, K.  
LIPPINCOTT WILLIAMS & WILKINS.2021: S354
- **Paternal Biologic and Thiopurine Exposure in Inflammatory Bowel Disease and Association With Adverse Pregnancy Outcomes and Semen Parameters: A Systematic Review and Meta-Analysis**  
Gubatan, J., Barber, G., Nielsen, O., Juhl, C., Maxwell, C., Eisenberg, M., Streett, S.  
LIPPINCOTT WILLIAMS & WILKINS.2021: S353
- **Anti-Integrins for the Treatment of Inflammatory Bowel Disease: Current Evidence and Perspectives.** *Clinical and experimental gastroenterology*  
Gubatan, J., Keyashian, K., Rubin, S. J., Wang, J., Buckman, C. A., Sinha, S.  
2021; 14: 333-342
- **COVID-19 PANDEMIC INCREASED HEALTHCARE UTILIZATION AMONG PATIENTS WITH FUNCTIONAL GASTROINTESTINAL DISORDERS**

- Gubatan, J., Zikos, T., Wu, J., Spear, E., Gottfried, A. C., Becker, L. S., Habtezion, A., Neshatian, L.  
W B SAUNDERS CO-ELSEVIER INC.2021: S28-S29
- **IMMUNOMODULATORY EFFECTS OF NON-INVASIVE VAGAL NERVE STIMULATION THERAPY IN IDIOPATHIC GASTROPARESIS**  
Gottfried, A. C., Namkoong, H., Adler, E. P., Gubatan, J., Lei, C., Fernandez-Becker, N., Clarke, J. O., Nguyen, L. B., Habtezion, A.  
W B SAUNDERS CO-ELSEVIER INC.2021: S102-S103
  - **Dual targeting of lymphocyte homing and retention through #4#7 and #E#7 inhibition in inflammatory bowel disease.** *Cell reports. Medicine*  
Dai, B., Hackney, J. A., Ichikawa, R., Nguyen, A., Elstrott, J., Orozco, L. D., Sun, K. H., Modrusan, Z., Gogineni, A., Scherl, A., Gubatan, J., Habtezion, A., Deswal, et al  
2021; 2 (8): 100381
  - **Vitamin D is Associated with #4#7+ Immunophenotypes and Predicts Vedolizumab Therapy Failure in Patients with Inflammatory Bowel Disease.** *Journal of Crohn's & colitis*  
Gubatan, J., Rubin, S. J., Bai, L., Haileselassie, Y., Levitte, S., Balabanis, T., Patel, A., Sharma, A., Sinha, S. R., Habtezion, A.  
2021
  - **Artificial intelligence applications in inflammatory bowel disease: Emerging technologies and future directions.** *World journal of gastroenterology*  
Gubatan, J. n., Levitte, S. n., Patel, A. n., Balabanis, T. n., Wei, M. T., Sinha, S. R.  
2021; 27 (17): 1920-1935
  - **Gastrointestinal symptoms and healthcare utilization have increased among patients with functional gastrointestinal and motility disorders during the COVID-19 pandemic.** *Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society*  
Gubatan, J., Zikos, T., Spear Bishop, E., Wu, J., Gottfried, A., Becker, L., Habtezion, A., Neshatian, L.  
2021: e14243
  - **Immune checkpoint inhibitor-mediated colitis in gastrointestinal malignancies and inflammatory bowel disease.** *World journal of gastrointestinal oncology*  
Weingarden, A. R., Rubin, S. J., Gubatan, J.  
2021; 13 (8): 772-798
  - **Gastric Mucosal Immune Profiling and Dysregulation in Idiopathic Gastroparesis.** *Clinical and translational gastroenterology*  
Gottfried-Blackmore, A. n., Namkoong, H. n., Adler, E. n., Martin, B. n., Gubatan, J. n., Fernandez-Becker, N. n., Clarke, J. O., Idoyaga, J. n., Nguyen, L. n., Habtezion, A. n.  
2021; 12 (5): e00349
  - **Reply to Letter to the Editor: What is the incidence of COVID-19 in patients with IBD in western countries?** *Gastroenterology*  
Gubatan, J. n., Sinha, S. R., Habtezion, A. n.  
2021
  - **Cathelicidin Mediates a Protective Role of Vitamin D in Ulcerative Colitis and Human Colonic Epithelial Cells.** *Inflammatory bowel diseases*  
Gubatan, J. n., Mehigan, G. A., Villegas, F. n., Mitsuhashi, S. n., Longhi, M. S., Malvar, G. n., Csizmadia, E. n., Robson, S. n., Moss, A. C.  
2020
  - **Mucosal vitamin D signaling in inflammatory bowel disease.** *Autoimmunity reviews*  
Kellermann, L. n., Jensen, K. B., Bergenheim, F. n., Gubatan, J. n., Chou, N. D., Moss, A. n., Nielsen, O. H.  
2020: 102672
  - **Are Proton Pump Inhibitors Contributing to SARS-COV-2 Infection?** *The American journal of gastroenterology*  
Tarlow, B. n., Gubatan, J. n., Khan, M. A., Cholankeril, G. n.  
2020
  - **Biologics for Inflammatory Bowel Disease and their Safety in Pregnancy: A Systematic Review and Meta-analysis.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*  
Nielsen, O. H., Gubatan, J. M., Juhl, C. B., Streett, S. E., Maxwell, C. n.  
2020
  - **Biologics During Pregnancy in Women With Inflammatory Bowel Disease and Risk of Infantile Infections: A Systematic Review and Meta-Analysis.** *The American journal of gastroenterology*  
Gubatan, J. n., Nielsen, O. H., Levitte, S. n., Juhl, C. B., Maxwell, C. n., Streett, S. E., Habtezion, A. n.  
2020

- **SARS-CoV-2 Testing, Prevalence, and Predictors of COVID-19 in Patients with Inflammatory Bowel Disease in Northern California.** *Gastroenterology*  
Gubatan, J. n., Levitte, S. n., Balabanis, T. n., Patel, A. n., Sharma, A. n., Habtezion, A. n.  
2020
- **Gastric Leiomyosarcoma Unmasked by Bleeding From a Percutaneous Endoscopic Gastrostomy Tube.** *ACG case reports journal*  
Gubatan, J. n., Shah, N. n.  
2020; 7 (1): e00301
- **Prevalence, risk factors and clinical outcomes of COVID-19 in patients with a history of pancreatitis in Northern California.** *Gut*  
Gubatan, J. n., Levitte, S. n., Patel, A. n., Balabanis, T. n., Sharma, A. n., Jones, E. n., Lee, B. n., Manohar, M. n., Swaminathan, G. n., Park, W. n., Habtezion, A. n.  
2020
- **Novel use of endoscopic morcellator to clear large obscuring clot in patient with upper-GI bleed.** *VideoGIE : an official video journal of the American Society for Gastrointestinal Endoscopy*  
Gubatan, J. n., Kwo, P. n., Hwang, J. H.  
2020; 5 (2): 58–60
- **Double Threat: Interplay of Celiac Disease with Inflammatory Bowel Disease.** *Digestive diseases and sciences*  
Gubatan, J. n., Triadafilopoulos, G. n., Fernandez-Becker, N. Q.  
2019
- **Managing vitamin D deficiency in inflammatory bowel disease.** *Frontline gastroenterology*  
Nielsen, O. H., Hansen, T. I., Gubatan, J. M., Jensen, K. B., Rejnmark, L. n.  
2019; 10 (4): 394–400
- **Systematic review with meta-analysis: association of vitamin D status with clinical outcomes in adult patients with inflammatory bowel disease.** *Alimentary pharmacology & therapeutics*  
Gubatan, J. n., Chou, N. D., Nielsen, O. H., Moss, A. C.  
2019
- **Higher serum vitamin D levels are associated with protective serum cytokine profiles in patients with ulcerative colitis.** *Cytokine*  
Gubatan, J. n., Mitsuhashi, S. n., Longhi, M. S., Zenlea, T. n., Rosenberg, L. n., Robson, S. n., Moss, A. C.  
2018; 103: 38–45
- **Vitamin D in inflammatory bowel disease: more than just a supplement.** *Current opinion in gastroenterology*  
Gubatan, J. n., Moss, A. C.  
2018; 34 (4): 217–25
- **Reply.** *Clinical gastroenterology and hepatology*  
Gubatan, J. M., Moss, A. C.  
2017
- **Low Serum Vitamin D During Remission Increases Risk of Clinical Relapse in Patients With Ulcerative Colitis.** *Clinical gastroenterology and hepatology*  
Gubatan, J., Mitsuhashi, S., Zenlea, T., Rosenberg, L., Robson, S., Moss, A. C.  
2017; 15 (2): 240-246 e1
- **Cannabis Abuse Is Increasing and Associated with Increased Emergency Department Utilization in Gastroenterology Patients** *DIGESTIVE DISEASES AND SCIENCES*  
Gubatan, J., Staller, K., Barshop, K., Kuo, B.  
2016; 61 (7): 1844-1852
- **Hypercalcemia associated with isolated bone marrow sarcoidosis in a patient with underlying monoclonal gammopathy of undetermined significance: case report and review of literature.** *Biomarker research*  
Gubatan, J., Wang, X., Louissaint, A., Mahindra, A., Vanderpool, J.  
2016; 4: 18-?
- **Hemorrhage from Extra-Antral Gastric Antral Vascular Ectasia in a Patient with Duodenal Heterotopic Gastric Mucosa.** *Case reports in gastrointestinal medicine*  
Gubatan, J., Raines, N., Khosravi, H., Challies, T. L., Berzin, T. M.  
2016; 2016: 4325302-?

- **Multistrain influenza protection induced by a nanoparticulate mucosal immunotherapeutic** *MUCOSAL IMMUNOLOGY*

Tai, W., Roberts, L., Seryshev, A., Gubatan, J. M., Bland, C. S., Zabriskie, R., Kulkarni, S., Soong, L., Mbawuikie, I., Gilbert, B., Kheradmand, F., Corry, D. B.  
2011; 4 (2): 197-207