

Curriculum Vitae
Monique Barakat, MD, PhD

EDUCATION:

- 1999 - 2003 BA, with Honors and Distinction, Human Biology
Stanford University
- 2004 - 2012 Medical Scientist Training Program, Stanford University
(funded by the National Institutes of Health)
- 2010 PhD, Cancer Biology, Neurosciences, Stanford University
- 2012 MD, Stanford University School of Medicine

POST-DOCTORAL TRAINING:

- 2012 - 2015 Residency, Internal Medicine
Stanford University School of Medicine
- 2015 - 2018 Fellowship, Gastroenterology and Hepatology
Stanford University School of Medicine
- 2018 - 2019 Fellowship, Interventional Endoscopy
Stanford University School of Medicine

APPOINTMENT:

- 8/28/18 – 4/30/20 Instructor in Medicine
- Stanford University School of Medicine
300 Pasteur Drive, Stanford, California 94304
- Lucille Packard Children’s Hospital at Stanford
725 Welch Rd, Palo Alto, CA 94304
- 5/1/20 – present Assistant Professor of Pediatrics & Medicine
Associate Director of Pediatric Endoscopy
- Stanford University School of Medicine
300 Pasteur Drive, Stanford, California 94304
- Lucille Packard Children’s Hospital at Stanford
725 Welch Rd, Palo Alto, CA 94304

BOARD CERTIFICATION:

- 2015 Internal Medicine, American Board of Internal Medicine
- 2018 Gastroenterology, American Board of Internal Medicine

SCHOLASTIC and RESEARCH AWARDS:

- 1999 Presidential Scholar (awarded by President Bill Clinton to the top high school student in the state of Utah for academic excellence), Washington DC.
- 1999 - 03 Robert C. Byrd Scholarship awarded by the US Department of Education to exceptionally able high school seniors who show promise of continued academic excellence in post-secondary education.
- 2000 George Washington National Medal of Honor Awarded by the Freedoms Foundation to one student in the Western United States for outstanding academic achievement and service.
- 2000 Stanford University President’s Award for Academic Excellence (honors the top 3% of freshman)
- 2003 Joshua Lederberg Award for Academic Excellence in Human Biology (honors the top Human Biology student for academic performance), Stanford University.
- 2003 Excellence in Honors Research Award (granted to the 2 top undergraduate students for excellence in research), Stanford University.
- 2004 Bernard and Estelle Shuer Award for Outstanding Research (awarded to the top Human Biology graduate for exemplary research), Stanford University.
- 2019 Recognition for Scientific Accomplishment as an Early Career Investigator, American Gastroenterological Association
- 2020 Collaborative Alliance for Pancreatic Education and Research (CAPER) Young Investigator Award

CLINICAL AWARDS:

- 2013 Julian Wolfsohn Award for Outstanding Clinical Performance in Internal Medicine (awarded to the top 2 Medicine Residents), Stanford University.
- 2015 Internal Medicine Residency Award for Clinical Excellence and Professionalism in Patient Care (awarded to the top graduating Medicine Resident), Stanford University.
- 2015 Palo Alto Veterans Affairs Hospital Award for Teamwork and Excellence in Patient Care (awarded to the top resident; voted by the nursing and administrative staff), Stanford University.
- 2016 Emergency Department Recognition Award for Professionalism and Excellence as a Consultant (awarded to the top 2 Residents or Fellows by the Emergency Department Residents and Attendings), Stanford University
- 2017 Internal Medicine Residency Award for Outstanding Subspecialty Consultation by a Fellow (voted on by all Medicine Residents), Stanford
- 2019,2020 National Women Physician Award for Excellence in Clinical Care.

TEACHING AWARDS:

- 2003 Excellence in Teaching Award in Human Biology, Stanford University (recognizes one Teaching Assistant for exemplary teaching; students and faculty vote on the award).
- 2008, 2009 Excellence in Teaching Award, Human Health and Diseases 220 Medical School Course (awarded to the top Teaching Assistant, voted by medical students), Stanford University.
- 2008 - 2010 Chief Teaching Assistant, Human Health and Diseases 220 Medical School Course (voted on by the course directors and the other teaching assistants), Stanford University.
- 2020 Excellence in Teaching Award (voted by trainees), Stanford University.

INVITED SPEAKER AT NATIONAL AND REGIONAL MEETINGS:

- 6/21/08 Invited Speaker, Annual Hedgehog Signaling in Development and Disease. Hedgehog Signaling: “Defining the role of ciliary proteins in developing, adult and neoplastic cells.” San Francisco, California.

- 6/11/09 Invited Speaker, Cell Signaling and Cancer Biology Symposium. “Primary cilia in tumor initiation and progression.” University of Texas Health Sciences Center, Houston, Texas.
- 3/2/14 Invited Speaker, Keystone Symposium on Cilia, Development & Human Disease. Session: Cilia in Disease. “Cilia, Proliferation and Cancer.” Tahoe City, California.
- 10/18/20 Invited Speaker, Northern California Society for Clinical Gastroenterology. “Advances in Interventional Endoscopy.” Virtual due to COVID.
- 11/5/20 Invited Speaker, North American Society of Pediatric Gastroenterology, Hepatology & Nutrition. “Endoscopy beyond the Mucosa.” Virtual due to COVID.

INVITED SPEAKER AT STANFORD SCIENTIFIC MEETINGS:

- 2006 - 2009 Stanford Developmental Biology Retreat
- 2008 Canary Foundation Meeting
- 2008, 2009 Center for Childhood Tumors Meeting
- 2004 - 2010 Neurosciences Program Retreat
- 2004 - 2010 Medical Scientist Training Program Retreat

MEMBERSHIP ON STANFORD COMMITTEES:

- 2008 - 2009 Teaching Task Force Representative for Medical School Pre-Clinical Curriculum Committee
- 2016 - 2018 Elected Housestaff Representative on the Graduate Medical Education Committee (1 of 3 elected resident/fellows, nominated by program director, voted on by residents & fellows at Stanford & Lucille Packard Hospitals).
- 2020 - Perioperative Oversight Committee, Lucille Packard Children’s Hospital at Stanford.

ADVANCED ENDOSCOPY TRAINING:

- 2015 ASGE Fellows Endoscopy Course, Downers Grove, Illinois
- 2016 ASGE Advanced Endoscopy Fellows Course, Downers Grove, Illinois

- 2016 Therapeutic Endoscopy Fellows Course, St. Louis, Missouri
- 2017 Rocky Mountain Therapeutic Endoscopy Course, Aurora, Colorado

MEMBERSHIP in SCIENTIFIC SOCIETIES:

- 2006 American College of Physicians
- 2006 American Medical Association
- 2015 American Society of Gastrointestinal Endoscopy
- 2016 American College of Gastroenterology
- 2016 American Gastroenterological Association
- 2017 North American Society for Pediatric Gastroenterology, Hepatology and Nutrition
Endoscopy/Procedure Committee Member since 2019

Leadership in SCIENTIFIC SOCIETIES:

- 2020 Vice Chair, ERCP Special Interest Group, American Society of Gastrointestinal Endoscopy

REVIEWER for SCIENTIFIC JOURNALS:

- 2016 - present *Digestive Diseases & Sciences*
- 2017 - present *Gastrointestinal Endoscopy*
- 2017- present *British Journal of Gastroenterology*
- 2017- present *American Journal of Infection Control*
- 2018 - present *PLOS Medicine*

RESEARCH SUPPORT:

- 2006 - 2009 National Science Foundation Graduate Research Fellowship Grant
- 2007 - 2009 Center for Childhood Tumors Grant (Awarded to the top 3 research proposals in the Western United States)

- 2007 - 2011 James McDonnell Foundation Research Grant (role: Co-investigator, Principal Investigator: Matthew Scott, PhD)
- 2004 - 2012 Medical Scientist Training Program, National Institutes of Health
- 2020 – 2021 Stanford Diabetes Research Center, Pilot & Feasibility Grant.
 “Morphological and Molecular/Cellular Profiling of Pancreatic Primary Cilia Across the Human Lifespan and in Pancreatitis” (role: Principle Investigator)

PUBLICATIONS:

Peer Reviewed Original Articles:

1. Ruby NF, **Barakat MT**, Heller HC. 2004. Phenotypic differences in re-entrainment behavior and sensitivity to nighttime light pulses in Siberian hamsters. *Journal of Biological Rhythms* (6): 530-541. PMID: 15523114.
2. **Barakat MT**, O’Hara BF, Larkin JE, Heller HC, Ruby NF. 2004. Light pulses do not induce c-fos or per1 in the suprachiasmatic nucleus of animals that fail to re-entrain to the photocycle. *Journal of Biological Rhythms* (4) 287-297. PMID: 15245648.
3. Hairston IS, Little MT, Scanlon MD, **Barakat MT**, Palmer TD, Sapolsky RM, Heller HC. 2005. Sleep restriction suppresses neurogenesis induced by hippocampus-dependent learning. *Journal of Neurophysiology* 94 (6) 4224-423. PMID: 16014798.
4. **Barakat MT**, O’Hara BF, Cao VH, Heller HC, Ruby NF. 2005. Light induces c-fos and per1 expression in the SCN of arrhythmic animals. *American Journal of Physiology* (5) 1381-1386. PMID: 16002555.
5. Franken P, Dudley CA, Estill SJ, **Barakat MT**, Thomason R, O’Hara BF, McKnight SL. 2006. NPAS2 is a transcriptional regulator of non-rapid eye movement sleep: genotype and sex interactions. *Proceedings of the National Academy of Sciences* 103 (18) 7118-23. PMID: 16636276.
6. Corcoran RB, Bachar Raveh T, **Barakat MT**, Lee EY, Scott MP. 2008. Insulin-like growth factor 2 is required for progression to advanced medulloblastoma in Patched 1 heterozygous mice. *Cancer Research*. 68(21): 8788-95. PMID: 18974121.
7. **Barakat MT**, Scott MP. 2009. Tail wags dog: Primary cilia and tumorigenesis. *Cancer Cell*. 16(4): 276-10. PMID: 19800572.
8. **Barakat MT**, Humke EW, Scott MP. 2013. Kif3a is necessary for initiation and maintenance of medulloblastoma. *Carcinogenesis*. 34(6): 1382-92. PMID: 23389290.

9. Sethi S, Huang RJ, **Barakat MT**,* Banaei N, Friedland S, Banerjee S. Adenosine triphosphate bioluminescence for bacteriological surveillance and reprocessing strategies for minimizing risk of infection transmission by duodenoscopes. *Gastrointest Endoscopy*. 2016. 85(6) 1180-7. PMID: 27818222.
*Involved in later stages of data collection, participated in data analysis/interpretation and writing.
10. Huang RJ, Thosani NC, **Barakat MT**,* Choudhary A, Mithal A, Singh G, Sethi S, Banerjee S. Evolution in the utilization of biliary interventions in the United States: results of a nationwide longitudinal study from 1998 to 2013. *Gastrointest Endosc*. 2017. 86(2) 319-326. PMID: 28062313.
*Participated in study design/analysis, data interpretation and writing.
11. Huang RJ, **Barakat MT**,* Girotra M, Banerjee S. Practice Patterns for Cholecystectomy After Endoscopic Retrograde Cholangiopancreatography for Patients with Choledocholithiasis. *Gastroenterology*. 2017. 153(3) 762-771. PMID: 28583822.
*Participated extensively in conceptualization of study design/analysis, data interpretation and writing.
12. **Barakat MT**, Huang RJ, Thosani NC, Choudhary A, Girotra M, Banerjee S. Liver transplant-related anastomotic biliary strictures: a novel, rapid, safe, radiation-sparing, and cost-effective management approach. *Gastrointest Endosc*. 2017. 87(2) 501-508. PMID: 28757315.
13. **Barakat MT**, Mithal A, Huang RJ, Mithal A, Sehgal A, Banerjee S, Singh G. Affordable Care Act and healthcare delivery: A comparison of California and Florida hospitals and emergency departments. *PLoS One*. 2017. 12(8). PMID: 28771602.
14. **Barakat MT**, Girotra M, Choudhary A, Huang RJ, Sethi S, Banerjee S. A prospective evaluation of radiation free direct solitary cholangioscopy for the management of choledocholithiasis. *Gastrointest Endosc*. 2017. 87(2) 584-589. PMID: 28797911.
15. **Barakat MT**,* Thosani NC,* Huang RJ, Choudhary A, Kochar R, Kothari S, Banerjee S. Effects of a Brief Educational Program on Optimization of Fluoroscopy to Minimize Radiation Exposure During Endoscopic Retrograde Cholangiopancreatography. *Clin Gastroenterol Hepatol*. 2017. 16(4) 550-557. PMID: 28804031.
*co-first authors
16. **Barakat MT**, Girotra M, Huang RJ, Banerjee S. Scoping the Scope: Endoscopic Evaluation of Endoscope Working Channels Using a Novel Flexible Inspection Endoscope. *Gastrointest Endosc*. 2018. 88(4) 601-611. PMID: 29425885.
17. **Barakat MT**, Mithal A, Huang RJ, Mithal A, Sehgal A, Singh G, Banerjee S. Recent trends and the Impact of the Affordable Care Act on Emergency Department Visits and Hospitalizations for Gastrointestinal, Pancreatic and Liver Diseases. *Journal of Clinical Gastroenterology*. 2018. PMID: 30285976.

18. Huang RJ, **Barakat MT***, Girotra M, Banerjee S. Unplanned Hospital Encounters after Endoscopic Retrograde Cholangiopancreatography in 2 Large US States. *Gastroenterology*. 2017. 156(1) 119-129. PMID: 28583822.
*Participated extensively in conceptualization of study design/analysis, data interpretation and writing.
19. **Barakat MT**, Huang RJ, Banerjee S. Simethicone is retained in endoscopes despite reprocessing: Impact of its use on working channel fluid retention and ATP bioluminescence values. *Gastrointest Endosc*. 2018. 89(1) 115-123. PMID: 30125574.
20. **Barakat MT**, Huang RJ, Banerjee S. Comparison of automated and manual drying in the elimination of residual endoscope working channel fluid after reprocessing. *Gastrointest Endosc*. 2018. 89(1) 124-132. PMID: 30148992.
21. **Barakat MT**, Triadafilopoulos G, Berquist WE. Pediatric Endoscopy Practice Patterns in the United States, Canada and Mexico. *Journal of Pediatric Gastroenterology, Hepatology & Nutrition*. 2019. In press. PMID: 30789864.
22. Sethi S,* **Barakat MT,*** Friedland S, Banerjee S. Nationwide Assessment of Radiation Training, Utilization and Protection Practices Among United States Therapeutic Endoscopists. *Digestive Diseases & Sciences*. 2019. In press. PMID: 30911863.
*co-first authors
23. **Barakat MT**, Gugig R, Imperial J, Berquist WE. Fluoroscopy Time during ERCP performed for Children and Adolescents is Significantly Higher with Low-volume Endoscopists. *J Pediatr Gastroenterol Nutr*. 2020 Aug 21. PMID: 32833892.
24. **Barakat MT**, Josephs S, Gugig R. Return to Native Drainage: Duodenal Biliary Fistula Formation Following Pediatric Hepatobiliary Surgery with Roux-en-Y Reconstruction. *Dig Dis Sci*. 2020 Jun 12. PMID: 32533541.
25. Wen L, Javed TA, Dobbs AK, Brown R, Niu M, Li L, Khalid A, **Barakat MT**, Xiao X, Yimlamai D, Konnikova L, Yu M, Byersdorfer CA, Husain SZ. The protective effects of calcineurin on pancreatitis in mice depend on the cellular source. *Gastroenterology*. 2020 Sep;159(3):1036-1050. PMID: 32445858.
*Participated in data collection, data interpretation and writing.
26. **Barakat MT**, Foley MA, Gugig R. Initial Experience with EUS-guided Coil Placement for Pediatric Gastric Variceal Hemostasis. *J Pediatr Gastroenterol Nutr*. 2020. PMID: 33394889.
27. **Barakat MT**, Banerjee S. Sequential endoscopist-driven phone calls improve capture rate of adverse events after ERCP: a prospective study. *Gastrointest Endosc*. 2020 Jul 25:S00165107(20). PMID: 32721489.

28. **Barakat MT**, Angelotti TP, Banerjee S. Use of an ultra-slim gastroscope to accomplish endoscopist-facilitated rescue intubation during ERCP: A novel approach to enhance patient and staff safety. *Dig Dis Sci*. 2020 Jun 5. PMID: 32504349.
29. Huang RJ, **Barakat MT**, Park W, Banerjee S. Quality metrics in the performance of EUS: a population-based observational cohort of the United States. *Gastrointest Endosc*. 2021. Epub ahead of print. PMID: 33476611.
*Participated in data collection, data interpretation and writing.
30. **Barakat MT**, Banerjee S. Incidental biliary dilation in the era of the opiate epidemic: High prevalence of biliary dilation in opiate users evaluated in the Emergency Department. *World J Hepatol*. 2020 Dec 27;12(12):1289-1298. doi: 10.4254/wjh.v12.i12.1289. PMID: 33442455.
31. **Barakat MT**, Girotra M, Thosani N, Kothari S, Banerjee S. Escalating complexity of endoscopic retrograde cholangiopancreatography over the last decade with increasing reliance on advanced cannulation techniques. *World J Gastroenterol*. 2020 Nov 7;26(41):6391-6401. PMID: 33244200
32. **Barakat MT**, Cholankeril G, Gugig R, Berquist WE. Nationwide Evolution of Pediatric Endoscopic Retrograde Cholangiopancreatography Indications, Utilization, and Readmissions over Time. *J Pediatr*. 2020. PMID: 33197494.
33. Ofosu A, Higgins J, Frye JS, Kumari R, **Barakat MT**. Strongyloides Superinfection After Liver Transplantation. *Dig Dis Sci*. 2020 Nov 21. PMID: 33219458.
34. **Barakat MT**, Banerjee S. Novel Algorithms for Reprocessing, Drying and Storing Endoscopes. *Gastrointest Endosc Clin N Am*. 2020 Oct;30(4):677-691. PMID: 32891225.
35. **Barakat MT**, Josephs S, Gugig R. Return to Native Drainage: Duodenal Biliary Fistula Formation Following Pediatric Hepatobiliary Surgery with Roux-en-Y Reconstruction. *Dig Dis Sci*. 2021 Jan;66(1):46-51. PMID: 32533541.

Other Peer Reviewed Articles:

1. Anand R, **Barakat MT**, Jennings C. 2010. Persistent hypoxemia and pulmonary hypertension in a 3-day-old infant. *Neoreviews*. 2010. 11:109.
2. **Barakat MT**, Humke EW, Scott MP. 2010. Learning from Jekyll to control Hyde: Hedgehog signaling in development and cancer. *Trends Mol Med*. 16(8): 337-48. PMID: 20696410.

3. **Barakat MT**, Gajurel K, Fischer K, Stevens K, Ozdalga E, Montoya JG. 2016. A case of Meningococcal pyomyositis in an otherwise healthy adult. *Open Forum of Infectious Disease*. 2016. 3(3). PMID: 27703989.
4. Choudhary A,* **Barakat MT**,* Higgins LJ, Banerjee S. 2016. Choledochoscopic identification of a hepatic/cystic artery pseudoaneurysm in a patient with hematemesis after laparoscopic cholecystectomy. *Co-first authors. *Digestive Diseases & Sciences*. 2017. 62(6). PMID: 27423886.
5. Choudhary A,* **Barakat MT**,* Leal JN, Louie CY, Visser BC, Banerjee S. 2016. Green Sludge: Intraductal papillary mucinous neoplasm of the bile duct presenting with intermittent biliary obstruction. *Co-first authors. *Digestive Diseases & Sciences*. 2017. 62(8). PMID: 27423887.
6. **Barakat MT**, Kothari S, Sethi S, Banerjee S. Au Naturel: Transpapillary Endoscopic Drainage of an Infected Biloma. *Digestive Diseases & Sciences*. 2017 Aug 30. PMID: 28856471.
7. **Barakat MT**, Girotra M, Banerjee S. (Re)building the Wall: Recurrent Boerhaave Syndrome Managed by Over-the-Scope Clip and Covered Metallic Stent Placement. *Digestive Diseases & Sciences*. 2017 Sep 25. PMID: 28948439.
8. **Barakat MT**, Girotra M, Choudhary A, Banerjee S. Plastic Surgery: Cholangioscopic Intra-stent Balloon Retrieval of a Proximally Migrated Biliary Stent. *Digestive Diseases & Sciences*. 2017 Sep 30. PMID: 28965145.
9. **Barakat MT**, Banerjee S. SpyCatcher: Use of a Novel Cholangioscopic Snare for Capture and Retrieval of a Proximally Migrated Biliary Stent. *Digestive Diseases & Sciences*. 2018. 30078117.
10. **Barakat MT**, Banerjee S. Basket Case: fluoroscopy-free capture and retrieval of biliary and pancreatic duct stones. *Digestive Diseases & Sciences*. 2019. In press. PMID: 31055718
11. Martin M, Holmes S, Sim J, Hassan M, Roshni M, Bensen R, **Barakat MT**. Neonatal CMV hepatitis and cholestasis. *Digestive Diseases & Sciences*. 2019. In press.

Non-Peer Reviewed Article

Barakat MT, Sobel R. 2009. Autopsy Pathology. *Journal of Experimental Neurology*. 68 (9): 1051.

Book Chapter

Barakat MT, Banerjee S. Basics of Endoscopic Ultrasound. Handbook of

Gastroenterologic Procedures. 5th Edition (2019).

Barakat MT, Banerjee S. Novel Algorithms for Reprocessing, Drying and Storing Endoscopes. *Gastrointest Endosc Clin N Am.* 2020 Oct;30(4):677-691. PMID: 32891225

SELECTED ABSTRACT PRESENTATIONS at NATIONAL SCIENTIFIC MEETINGS:

Selected for oral presentation (~ top 10% of all abstracts):

1. **Barakat MT**, Humke EW, Scott MP. Modeling human malignancy in the mouse: Role for fluorescent proteins. Society for Oncology Meeting. Dallas, Texas. November 13-15, 2007.
2. **Barakat MT**, Humke EW, Scott MP. Role of Primary Cilia in Hedgehog-dependent Malignancy. Keystone Symposium on Cilia, Development & Human Disease. Monterey, California. December 20-21, 2009.
3. **Barakat MT**, Scott MP. The role of primary cilia in tumor initiation and progression. Society for Neuro-Oncology. Washington DC. November 15-18, 2012.
4. **Barakat MT**, Choudhary A, Huang RJ, Thosani N, Girotra M, Banerjee S. Sequential biliary stent additional without exchange or dilation for post-operative biliary strictures: a rapid, cost-effective approach that minimizes radiation exposure. Digestive Disease Week Conference, Chicago, Illinois. May 6-9, 2017.
5. **Barakat MT**, Banerjee S. Prospective evaluation of timing of post-procedure phone calls to patients in determining the true rate of adverse events following ERCP. Digestive Disease Week Conference, San Diego, California. May 18, 2019.
6. **Barakat MT**, Banerjee S. Biliary dilation in patients with normal liver function tests: association with opiate use. Digestive Disease Week Conference, San Diego, California. May 18, 2019.
7. **Barakat MT**, Girotra M, Thosani N, Kothari S, Banerjee S. Increasing complexity of cannulation in tertiary care center ERCPs over the last decade, with increasing reliance on advanced cannulation techniques. Digestive Disease Week Conference, San Diego, California. May 20, 2019.
8. **Barakat MT**, Ghosh S, Banerjee S. Cost utility analysis comparing duodenoscope reprocessing/sterilization, novel duodenoscopes with disposable endcaps and fully disposable duodenoscopes. Digestive Disease Week Conference, Chicago, Illinois (converted to virtual format). June, 2020.
9. **Barakat MT**, Angelotti T, Banerjee S. Endoscopist facilitated endotracheal intubation for general anesthesia enhances efficiency, patient and staff safety during ERCP: A

prospective randomized study. Digestive Disease Week Conference, Chicago, Illinois (converted to virtual format). President's Plenary Session. June, 2020.

10. **Barakat MT**, Gugig R. Cost utility analysis comparing duodenoscope reprocessing/sterilization, novel duodenoscopes with disposable endcaps and fully disposable duodenoscopes. Digestive Disease Week Conference, Chicago, Illinois (converted to virtual format). June, 2020.
11. **Barakat MT**, Husain SZ, Gugig R. The Majority of Children and Adolescents with Pancreas Divisum and Acute Recurrent Pancreatitis Experience Clinical Improvement after ERCP with Minor Papillotomy. North American Society for Pediatric Gastroenterology, Hepatology & Nutrition. November 5, 2020.

Selected poster presentations:

1. **Barakat MT**, DaVee T, Jayasekera C, Gerson LB. Recurrent gastrointestinal bleeding due to small bowel angiodysplasias. American College of Physicians Meeting. San Francisco, California. November 15-17, 2012.
2. **Barakat MT**, Kenny K. Nutcracker Syndrome: Cracking the challenging case of a patient with chronic abdominal pain. Society of General Internal Medicine National Meeting. San Francisco, California. January 29-31, 2014.
3. **Barakat MT**, Girotra M, Choudhary A, Huang RJ, Liao C, Kothari S, Banerjee S. Goff trans-pancreatic septotomy is an effective and safe salvage technique following failed standard biliary cannulation at ERCP. Digestive Disease Week Conference, Chicago, Illinois. May 6-9, 2017.
4. **Barakat MT**, Mithal A, Huang RJ, Sehgal A, Mithal A, Singh G, Banerjee S. Impact of Affordable Care Act on Emergency Department visits and Hospitalizations for Gastrointestinal, Pancreatic and Liver disorders. Digestive Disease Week Conference, Chicago, Illinois. May 6-9, 2017. Awarded Poster of Distinction.
5. **Barakat MT**, Girotra M, Huang RJ, Choudhary A, Sethi S, Banerjee S. Shaking off the shackles of fluoroscopy – Evolving from standard ERCP to Radiation-Free Endoscopic Retrograde Cholangioscopy. Digestive Disease Week Conference, Chicago, Illinois. May 6-9, 2017. Awarded Poster of Distinction.
6. **Barakat MT**, Girotra M, Huang RJ, Banerjee S. Scoping the scope: Endoscopic evaluation of endoscope working channel damage/debris using a novel flexible inspection scope and assessment of the impact of automated drying and simethicone use on working channel fluid residue. Digestive Disease Week Conference, Washington DC. June 2-5, 2018.
7. **Barakat MT**, Triadafilopoulos G, Berquist WE. Pediatric Endoscopy Practice Patterns in the United States, Canada and Mexico. North American Society for Pediatric

Gastroenterology, Hepatology & Nutrition Annual Meeting, Hollywood, Florida. October 27, 2018. Awarded Poster of Distinction.

8. **Barakat MT**, Girotra M, Banerjee S. The inner life of endoscopes: prospective sequential borescope evaluation of new endoscopes to assess accumulation of endoscope working channel damage. Digestive Disease Week Conference, San Diego, California. June 18, 2019. Awarded Poster of Distinction.

STANFORD TEACHING ACTIVITIES:

TEACHING AWARDS:

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|-------------|---|
| 2003 | Excellence in Teaching Award in Human Biology (recognizes one Teaching Assistant for exemplary teaching; students and faculty vote on the award), Stanford University. |
| 2008, 2009 | Excellence in Teaching Award, Human Health and Disease 220 Medical School Course (awarded to the top teaching assistant, voted by medical students), Stanford University. |
| 2008 - 2010 | Chief Teaching Assistant, Human Health and Diseases 220 Medical School Course, (voted on by the course directors and the other teaching assistants), Stanford University. |

TEACHING IN NUMBERED COURSES:

- | | |
|-------------|---|
| 2003 | Chief Teaching Assistant, Cell Biology Laboratory (Biology 44) |
| 2003, 2004 | Chief Teaching Assistant, Human Genomics (Biology 209) |
| 2005 | Chief Teaching Assistant, Principles of Sleep Research (Biology 249) |
| 2006 | Teaching Assistant, Neurobiology 200 Course |
| 2006 - 2008 | Teaching Assistant, Pathophysiology, Histology, Physiology & Infectious Disease Modules of Human Health and Diseases 220 Medical School Course. |
| 2008 - 2010 | Chief Teaching Assistant, Human Health and Diseases 220 Medical School Course. |

TEACHING ACTIVITIES AS A RESIDENT / GI FELLOW:

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| 4/15/2015 | Transition of Care from Pediatric to Adult Providers: GI Experience. Housestaff Clinical Education Conference for Internal Medicine Residents |
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2015 - present	Human Health & Diseases 220 Medical School Course GI/Liver Teaching
2015 - present	Lecturer, Selected Gastrointestinal & Biliary Topics & Case Reviews, Housestaff Clinical Education Conference for Medicine Residents
2017 - present	Lecturer, Biliary Disorders, Physician Assistant Master of Science Candidates
2017 - present	Lecturer, GI and Interventional Endoscopy Case Reviews and Didactics for Fellows, Residents and Medical Students
2019 – present	Lecturer, Adult and Pediatric GI fellows Didactic Series, 8 lectures per year.

OTHER SCHOLASTIC AND SERVICE AWARDS:

1999 – 2003	Coca-Cola Scholarship (awarded for academic achievement, leadership, service and commitment to making a significant impact)
1999 - 2002	Tylenol Scholarship (awarded for academic achievement and potential for a career in health sciences)
1999	Volunteers in Service to America Award for Service Excellence (awarded to one individual in the state of Utah).

SELECTED VOLUNTEER SERVICE:

2000 - 2005	Volunteer, Stanford Chapter of the Global Project on Hunger, Haas Center at Stanford University
2003	Director, Stanford Chapter of the Global Project on Hunger, Haas Center at Stanford University
2005 – 2009	Volunteer and Coordinator, Stanford Medical Youth Science Program
2005 – 2010	Co-Coordinator, Biology and Physiology Middle School Outreach Program
2004 - 2018	Arbor and Pacific Free Clinic Volunteer and Manager, Stanford University School of Medicine