



## Monique Barakat

Assistant Professor of Pediatrics (Gastroenterology) and of Medicine (Gastroenterology and Hepatology)

Pediatrics - Gastroenterology

### CLINICAL OFFICES

- **Stanford Gastroenterology and Hepatology**

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- **Stanford Hospital - GI Endoscopy**

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### ACADEMIC CONTACT INFORMATION

- **Academic Office Administrative Contact**

Abbey Hamilton - Administrative Associate

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## Bio

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### CLINICAL FOCUS

- Interventional Endoscopy
- Gastroenterology
- Pediatric Interventional Endoscopy
- Biliary and Pancreatic Disorders in Adults and Children

### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Pediatrics - Gastroenterology
- Assistant Professor - University Medical Line, Medicine - Gastroenterology & Hepatology
- Member, Maternal & Child Health Research Institute (MCHRI)

### ADMINISTRATIVE APPOINTMENTS

- Associate Director of Pediatric Endoscopy, Lucille Packard Children's Hospital at Stanford University Medical Center, (2020- present)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Endoscopy Committee, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (2017 - present)
- Member, American Gastroenterological Association (2016 - present)
- Member, American College of Gastroenterology (2016 - present)
- Member, American Society of Gastrointestinal Endoscopy (2015 - present)

## PROFESSIONAL EDUCATION

- Fellowship: Stanford University Gastroenterology Fellowship (2018) CA
- Residency: Stanford University Internal Medicine Residency (2015) CA
- Board Certification: Gastroenterology, American Board of Internal Medicine (2018)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2015)
- Medical Education: Stanford University Medical Center (2012) CA

## Teaching

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## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Gastroenterology & Hepatology (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Safety and efficacy of a novel resection system for direct endoscopic necrosectomy of walled-off pancreas necrosis: a prospective, international, multicenter trial.** *Gastrointestinal endoscopy*  
Stassen, P. M., de Jonge, P. J., Bruno, M. J., Koch, A. D., Trindade, A. J., Benias, P. C., Sejpal, D. V., Siddiqui, U. D., Chapman, C. G., Villa, E., Tharian, B., Inamdar, S., Hwang, et al  
2021
- **Endoscopic ampullectomy: Can expert input shape endoscopic practice?** *Gastrointestinal endoscopy*  
Barakat, M. T., Adler, D. G.  
2021
- **EUS-guided biliary drainage: A realistic perspective.** *Endoscopic ultrasound*  
Barakat, M. T., Adler, D. G.  
2021; 10 (4): 227-229
- **A Practical Approach to Management of Acute Pancreatitis: Similarities and Dissimilarities of Disease in Children and Adults.** *Journal of clinical medicine*  
Sellers, Z. M., Barakat, M. T., Abu-El-Haija, M.  
2021; 10 (12)
- **EUS-directed transgastric ERCP: A first-line option for ERCP following Roux-en-Y gastric bypass.** *Endoscopic ultrasound*  
Barakat, M. T., Adler, D. G.  
2021; 10 (3): 151-153
- **Endoscopy in Patients With Surgically Altered Anatomy.** *The American journal of gastroenterology*  
Barakat, M. T., Adler, D. G.  
2021; 116 (4): 657-665
- **Quality metrics in the performance of EUS: a population-based observational cohort of the United States.** *Gastrointestinal endoscopy*  
Huang, R. J., Barakat, M. T., Park, W. n., Banerjee, S. n.  
2021
- **The Changing Epidemiology of Liver Disease Among US Children and Adolescents From 1999 to 2016.** *The American journal of gastroenterology*  
Li, J., Le, M. H., Barakat, M. T., Cheung, R. C., Nguyen, M. H.  
2021
- **Incidental biliary dilation in the era of the opiate epidemic: High prevalence of biliary dilation in opiate users evaluated in the Emergency Department.** *World journal of hepatology*  
Barakat, M. T., Banerjee, S.  
2020; 12 (12): 1289-98
- **Strongyloides Superinfection After Liver Transplantation.** *Digestive diseases and sciences*

- Ofosu, A., Higgins, J., Frye, J. S., Kumari, R., Barakat, M. T.  
2020
- **Nationwide evolution of Pediatric ERCP Indications, Utilization and Re-Admissions over Time.** *The Journal of pediatrics*  
Barakat, M. T., Cholankeril, G., Gugig, R., Berquist, W. E.  
2020
  - **Novel Algorithms for Reprocessing, Drying and Storing Endoscopes.** *Gastrointestinal endoscopy clinics of North America*  
Barakat, M. T., Banerjee, S.  
2020; 30 (4): 677–91
  - **Sequential endoscopist-driven phone calls improve capture rate of adverse events after ERCP: a prospective study.** *Gastrointestinal endoscopy*  
Barakat, M. T., Banerjee, S.  
2020
  - **Return to Native Drainage: Duodenal Biliary Fistula Formation Following Pediatric Hepatobiliary Surgery with Roux-en-Y Reconstruction.** *Digestive diseases and sciences*  
Barakat, M. T., Josephs, S., Gugig, R.  
2020
  - **Use of an Ultra-slim Gastroscope to Accomplish Endoscopist-Facilitated Rescue Intubation During ERCP: A Novel Approach to Enhance Patient and Staff Safety.** *Digestive diseases and sciences*  
Barakat, M. T., Angelotti, T. P., Banerjee, S.  
2020
  - **PROSPECTIVE TRIAL EVALUATING THE SAFETY AND EFFECTIVENESS OF THE INTERSCOPE ENDOROTOR (R) RESECTION SYSTEM FOR DIRECT ENDOSCOPIC NECROSECTOMY OF WALLED-OF PANCREATIC NECROSIS (ENDOROTOR DEN TRIAL)**  
Stassen, P. M., de Jonge, P. F., Koch, A. D., Bruno, M. J., Trindade, A., Benias, P. C., Sejpal, D. V., Siddiqui, U. D., Chapman, C. G., Villa, E., Tharian, B., Inamdar, S., Hwang, et al  
MOSBY-ELSEVIER.2020: AB80–AB81
  - **THE MAJORITY OF CHILDREN AND ADOLESCENTS WITH PANCREAS DIVISUM AND ACUTE RECURRENT PANCREATITIS EXPERIENCE CLINICAL IMPROVEMENT AFTER ERCP WITH MINOR PAPILOTOMY**  
Barakat, M., Husain, S. Z., Gugig, R.  
MOSBY-ELSEVIER.2020: AB500
  - **ENDOSCOPIC ULTRASOUND-GUIDED COIL PLACEMENT IS AN EFFECTIVE, SAFE AND RADIATION-SPARING APPROACH FOR MANAGEMENT OF GASTRIC VARICEAL BLEEDING IN CHILDREN AND ADOLESCENTS**  
Barakat, M., Gugig, R.  
MOSBY-ELSEVIER.2020: AB53
  - **COST UTILITY ANALYSIS COMPARING DUODENOSCOPE REPROCESSING/STERILIZATION, NOVEL DUODENOSCOPES WITH DISPOSABLE ENDCAPS AND FULLY DISPOSABLE DUODENOSCOPES**  
Barakat, M., Ghosh, S., Banerjee, S.  
MOSBY-ELSEVIER.2020: AB67–AB68
  - **ENDOSCOPIST FACILITATED ENDOTRACHEAL INTUBATION FOR GENERAL ANESTHESIA ENHANCES EFFICIENCY, PATIENT AND STAFF SAFETY DURING ERCP: A PROSPECTIVE RANDOMIZED STUDY**  
Barakat, M., Angelotti, T., Banerjee, S.  
MOSBY-ELSEVIER.2020: AB78–AB79
  - **ENDOSCOPIST FACILITATED ENDOTRACHEAL INTUBATION FOR GENERAL ANESTHESIA ENHANCES EFFICIENCY, PATIENT AND STAFF SAFETY DURING ERCP: A PROSPECTIVE RANDOMIZED STUDY**  
Barakat, M., Angelotti, T., Banerjee, S.  
MOSBY-ELSEVIER.2020: AB18
  - **INCREASED CAPTURE OF POST-ERCP ADVERSE EVENTS BY DELAYED (DAY 7) FOLLOW-UP CALLS: A PROSPECTIVE COMPARISON OF PHYSICIAN AND NURSE-INITIATED CALLS**  
Barakat, M., Banerjee, S.  
MOSBY-ELSEVIER.2020: AB342–AB343

- **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*  
Barakat, M. T., Mithal, A., Huang, R. J., Sehgal, A., Sehgal, A., Singh, G., Banerjee, S.  
2020; 54 (3): E21–E29
- **Goff Septotomy Is a Safe and Effective Salvage Biliary Access Technique Following Failed Cannulation at ERCP.** *Digestive diseases and sciences*  
Barakat, M. T., Girotra, M., Huang, R. J., Choudhary, A., Thosani, N. C., Kothari, S., Sethi, S., Banerjee, S.  
2020
- **Initial Experience with EUS-guided Coil Placement for Pediatric Gastric Variceal Hemostasis.** *Journal of pediatric gastroenterology and nutrition*  
Barakat, M. T., Foley, M. A., Gugig, R. n.  
2020; Publish Ahead of Print
- **Protective Effects of Calcineurin on Pancreatitis in Mice Depend on Cellular Source.** *Gastroenterology*  
Wen, L. n., Javed, T. A., Dobbs, A. K., Brown, R. n., Niu, M. n., Li, L. n., Khalid, A. n., Barakat, M. n., Xiao, X. n., Yimlamai, D. n., Konnikova, L. n., Yu, M. n., Byersdorfer, et al  
2020
- **Escalating complexity of endoscopic retrograde cholangiopancreatography over the last decade with increasing reliance on advanced cannulation techniques.** *World journal of gastroenterology*  
Barakat, M. T., Girotra, M. n., Thosani, N. n., Kothari, S. n., Banerjee, S. n.  
2020; 26 (41): 6391–6401
- **Fluoroscopy Time during ERCP performed for Children and Adolescents is Significantly Higher with Low-volume Endoscopists.** *Journal of pediatric gastroenterology and nutrition*  
Barakat, M. T., Gugig, R. n., Imperial, J. n., Berquist, W. E.  
2020
- **Basket Case: Fluoroscopy-Free Capture and Retrieval of Biliary and Pancreatic Duct Stones** *DIGESTIVE DISEASES AND SCIENCES*  
Barakat, M. T., Banerjee, S.  
2019; 64 (10): 2776–79
- **Radiation Training, Radiation Protection, and Fluoroscopy Utilization Practices Among US Therapeutic Endoscopists** *DIGESTIVE DISEASES AND SCIENCES*  
Sethi, S., Barakat, M. T., Friedland, S., Banerjee, S.  
2019; 64 (9): 2455–66
- **Pediatric Endoscopy Practice Patterns in the United States, Canada, and Mexico** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*  
Barakat, M. T., Triadafilopoulos, G., Berquist, W. E.  
2019; 69 (1): 24–31
- **Basket Case: Fluoroscopy-Free Capture and Retrieval of Biliary and Pancreatic Duct Stones.** *Digestive diseases and sciences*  
Barakat, M. T., Banerjee, S.  
2019
- **Radiation Training, Radiation Protection, and Fluoroscopy Utilization Practices Among US Therapeutic Endoscopists.** *Digestive diseases and sciences*  
Sethi, S., Barakat, M. T., Friedland, S., Banerjee, S.  
2019
- **Pediatric Endoscopy Practice Patterns in the United States, Canada and Mexico.** *Journal of pediatric gastroenterology and nutrition*  
Barakat, M. T., Triadafilopoulos, G., Berquist, W. E.  
2019
- **When Experts Fail: Use of a Short Turning Radius Colonoscope Facilitates Successful Completion of Colonoscopy in Patients with Bowel Fixity.** *Digestive diseases and sciences*  
Girotra, M. n., Sethi, S. n., Barakat, M. T., Huang, R. J., Friedland, S. n., Ladabaum, U. n., Banerjee, S. n.  
2019
- **Simethicone is retained in endoscopes despite reprocessing: impact of its use on working channel fluid retention and adenosine triphosphate bioluminescence values** *GASTROINTESTINAL ENDOSCOPY*  
Barakat, M. T., Huang, R. J., Banerjee, S.

2019; 89 (1): 115–23

- **Comparison of automated and manual drying in the elimination of residual endoscope working channel fluid after reprocessing** *GASTROINTESTINAL ENDOSCOPY*  
Barakat, M. T., Huang, R. J., Banerjee, S.  
2019; 89 (1): 124–+
- **Foregone Inclusion: Neonatal CMV Hepatitis and Cholestasis.** *Digestive diseases and sciences*  
Martin, M. n., Holmes, S. n., Sim, J. n., Hassan, M. n., Mathew, R. n., Bensen, R. n., Barakat, M. n.  
2019
- **Unplanned Hospital Encounters After Endoscopic Retrograde Cholangiopancreatography in 3 Large North American States** *GASTROENTEROLOGY*  
Huang, R. J., Barakat, M. T., Girotra, M., Lee, J. S., Banerjee, S.  
2019; 156 (1): 119–+
- **SpyCatcher: Use of a Novel Cholangioscopic Snare for Capture and Retrieval of a Proximally Migrated Biliary Stent** *DIGESTIVE DISEASES AND SCIENCES*  
Barakat, M. T., Banerjee, S.  
2018; 63 (12): 3224–27
- **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*  
Barakat, M. T., Mithal, A., Huang, R. J., Sehgal, A., Sehgal, A., Singh, G., Banerjee, S.  
2018
- **Scoping the scope: endoscopic evaluation of endoscope working channels with a new high-resolution inspection endoscope (with video)** *GASTROINTESTINAL ENDOSCOPY*  
Barakat, M. T., Girotra, M., Huang, R. J., Banerjee, S.  
2018; 88 (4): 601–+
- **Unplanned Hospital Encounters Following Endoscopic Retrograde Cholangiopancreatography in 3 Large American States.** *Gastroenterology*  
Huang, R. J., Barakat, M. T., Girotra, M., Lee, J. S., Banerjee, S.  
2018
- **Cut and Paste: Endoscopic Management of a Perforating Biliary Stent Utilizing Scissors and Clips** *DIGESTIVE DISEASES AND SCIENCES*  
Barakat, M. T., Kothari, S., Banerjee, S.  
2018; 63 (9): 2202–5
- **Comparison of automated and manual drying in the eliminating residual endoscope working channel fluid after reprocessing (with video).** *Gastrointestinal endoscopy*  
Barakat, M. T., Huang, R. J., Banerjee, S.  
2018
- **Simethicone is retained in endoscopes despite reprocessing: impact of its use on working channel fluid retention and adenosine triphosphate bioluminescence values (with video).** *Gastrointestinal endoscopy*  
Barakat, M. T., Huang, R. J., Banerjee, S.  
2018
- **SpyCatcher: Use of a Novel Cholangioscopic Snare for Capture and Retrieval of a Proximally Migrated Biliary Stent.** *Digestive diseases and sciences*  
Barakat, M. T., Banerjee, S.  
2018
- **Effects of a Brief Educational Program on Optimization of Fluoroscopy to Minimize Radiation Exposure During Endoscopic Retrograde Cholangiopancreatography** *CLINICAL GASTROENTEROLOGY AND HEPATOLOGY*  
Barakat, M. T., Thosani, N. C., Huang, R. J., Choudhary, A., Kochar, R., Kothari, S., Banerjee, S.  
2018; 16 (4): 550–57
- **Plastic Surgery: Cholangioscopic Intra-stent Balloon Retrieval of a Proximally Migrated Biliary Stent** *DIGESTIVE DISEASES AND SCIENCES*  
Barakat, M. T., Girotra, M., Choudhary, A., Banerjee, S.  
2018; 63 (4): 851–55

- **Au Naturel: Transpapillary Endoscopic Drainage of an Infected Biloma** *DIGESTIVE DISEASES AND SCIENCES*  
Barakat, M., Kothari, S., Sethi, S., Banerjee, S.  
2018; 63 (3): 597–600
- **Scoping the scope: endoscopic evaluation of endoscope working channels with a new high-resolution inspection endoscope (with video).** *Gastrointestinal endoscopy*  
Barakat, M. T., Girotra, M., Huang, R. J., Banerjee, S.  
2018
- **Liver transplant-related anastomotic biliary strictures: a novel, rapid, safe, radiation-sparing, and cost-effective management approach** *GASTROINTESTINAL ENDOSCOPY*  
Barakat, M. T., Huang, R. J., Thosani, N. C., Choudhary, A., Girotra, M., Banerjee, S.  
2018; 87 (2): 501–8
- **A prospective evaluation of radiation-free direct solitary cholangioscopy for the management of choledocholithiasis** *GASTROINTESTINAL ENDOSCOPY*  
Barakat, M. T., Girotra, M., Choudhary, A., Huang, R. J., Sethi, S., Banerjee, S.  
2018; 87 (2): 584+
- **(Re)building the Wall: Recurrent Boerhaave Syndrome Managed by Over-the-Scope Clip and Covered Metallic Stent Placement.** *Digestive diseases and sciences*  
Barakat, M. T., Girotra, M. n., Banerjee, S. n.  
2018; 63 (5): 1139–42
- **Cut and Paste: Endoscopic Management of a Perforating Biliary Stent Utilizing Scissors and Clips.** *Digestive diseases and sciences*  
Barakat, M. T., Kothari, S., Banerjee, S.  
2017
- **Practice Patterns for Cholecystectomy Following Endoscopic Retrograde Cholangio-Pancreatography for Patients With Choledocholithiasis.** *Gastroenterology*  
Huang, R. J., Barakat, M. T., Girotra, M., Banerjee, S.  
2017
- **Shaking Off the Shackles of Fluoroscopy - Evolving From Standard ERCP to Radiation-Free Endoscopic Retrograde Cholangioscopy (RF-ERC)**  
Barakat, M. T., Girotra, M., Choudhary, A., Huang, R. J., Sethi, S., Banerjee, S.  
MOSBY-ELSEVIER.2017: AB618–AB619
- **High Endoscopist and Facility Volume Protect Against Emergency Department Visits and Unplanned Hospitalizations Following Ambulatory Ercp**  
Huang, R. J., Barakat, M. T., Girotra, M., Banerjee, S.  
MOSBY-ELSEVIER.2017: AB84
- **Goff Trans-Pancreatic Septotomy Is an Effective and Safe Salvage Technique Following Failed Standard Biliary Cannulation at ERCP**  
Barakat, M. T., Girotra, M., Huang, R. J., Choudhary, A., Liao, C., Kothari, S., Banerjee, S.  
MOSBY-ELSEVIER.2017: AB612
- **Sequential Biliary Stent Addition Without Exchange or Dilation for Post-Operative Biliary Strictures: A Rapid, Cost-Effective Approach that Minimizes Radiation Exposure**  
Barakat, M. T., Choudhary, A., Huang, R. J., Thosani, N., Girotra, M., Banerjee, S.  
MOSBY-ELSEVIER.2017: AB88
- **When Experts Fail: Short Turn Radius Colonoscope to the Rescue? Utility of a Novel Colonoscope for Incomplete Colonoscopy Due to Bowel Fixity**  
Girotra, M., Barakat, M. T., Huang, R. J., Sethi, S., Friedland, S., Ladabaum, U., Banerjee, S.  
MOSBY-ELSEVIER.2017: AB517
- **Evolution in the utilization of biliary interventions in the United States: results of a nationwide longitudinal study from 1998 to 2013.** *Gastrointestinal endoscopy*  
Huang, R. J., Thosani, N. C., Barakat, M. T., Choudhary, A., Mithal, A., Singh, G., Sethi, S., Banerjee, S.  
2017
- **Affordable Care Act and healthcare delivery: A comparison of California and Florida hospitals and emergency departments.** *PloS one*  
Barakat, M. T., Mithal, A. n., Huang, R. J., Mithal, A. n., Sehgal, A. n., Banerjee, S. n., Singh, G. n.

2017; 12 (8): e0182346

- **Adenosine triphosphate bioluminescence for bacteriological surveillance and reprocessing strategies for minimizing risk of infection transmission by duodenoscopes.** *Gastrointestinal endoscopy*  
Sethi, S., Huang, R. J., Barakat, M. T., Banaei, N., Friedland, S., Banerjee, S.  
2016
- **A Case of Meningococcal Pyomyositis in an Otherwise Healthy Adult.** *Open forum infectious diseases*  
Barakat, M. T., Gajurel, K., Fischer, K., Stevens, K., Ozdalga, E., Montoya, J. G.  
2016; 3 (3): ofw087-?
- **Green Sludge: Intraductal Papillary Mucinous Neoplasm of the Bile Duct Presenting with Intermittent Biliary Obstruction Due to Abundant Mucus.** *Digestive diseases and sciences*  
Choudhary, A., Barakat, M. T., Leal, J. N., Louie, C. Y., Visser, B. C., Banerjee, S.  
2016: -?
- **Choledochoscopic Identification of a Hepatic/Cystic Artery Pseudoaneurysm in a Patient with Hematemesis After Laparoscopic Cholecystectomy.** *Digestive diseases and sciences*  
Choudhary, A., Barakat, M. T., Higgins, L. J., Banerjee, S.  
2016: -?
- **A Case of Meningococcal Pyomyositis in an Otherwise Healthy Adult** *OPEN FORUM INFECTIOUS DISEASES*  
Barakat, M. T., Gajurel, K., Fischer, K., Stevens, K., Ozdalga, E., Montoya, J. G.  
2016; 3 (3)
- **Kif3a is necessary for initiation and maintenance of medulloblastoma.** *Carcinogenesis*  
Barakat, M. T., Humke, E. W., Scott, M. P.  
2013; 34 (6): 1382-1392
- **Learning from Jekyll to control Hyde: Hedgehog signaling in development and cancer** *TRENDS IN MOLECULAR MEDICINE*  
Barakat, M. T., Humke, E. W., Scott, M. P.  
2010; 16 (8): 337-348
- **Tail Wags Dog: Primary Cilia and Tumorigenesis** *CANCER CELL*  
Barakat, M. T., Scott, M. P.  
2009; 16 (4): 276-277
- **Insulin-like Growth Factor 2 Is Required for Progression to Advanced Medulloblastoma in patched1 Heterozygous Mice** *CANCER RESEARCH*  
Corcoran, R. B., Raveh, T. B., Barakat, M. T., Lee, E. Y., Scott, M. P.  
2008; 68 (21): 8788-8795
- **NPAS2 as a transcriptional regulator of non-rapid eye movement sleep: Genotype and sex interactions** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Franken, P., Dudley, C. A., Estill, S. J., Barakat, M., Thomason, R., O'Haran, B. F., McKnight, S. L.  
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- **Sleep restriction suppresses neurogenesis induced by hippocampus-dependent learning** *JOURNAL OF NEUROPHYSIOLOGY*  
Hairston, I. S., Little, M. T., Scanlon, M. D., Barakat, M. T., Palmer, T. D., Sapolsky, R. M., Heller, H. C.  
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- **Light induces c-fos and per1 expression in the suprachiasmatic nucleus of arrhythmic hamsters** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Barakat, M. T., O'Hara, B. F., Cao, V. H., Heller, H. C., Ruby, N. F.  
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- **Phenotypic differences in reentrainment behavior and sensitivity to nighttime light pulses in Siberian hamsters** *JOURNAL OF BIOLOGICAL RHYTHMS*  
Ruby, N. F., Barakat, M. T., Heller, H. C.  
2004; 19 (6): 530-541
- **Light pulses do not induce c-fos or per1 in the SCN of hamsters that fail to reentrain to the photocycle** *JOURNAL OF BIOLOGICAL RHYTHMS*  
Barakat, M. I., O'Hara, B. E., Cao, V. H., Larkin, J. E., Heller, H. C., Ruby, N. F.

