

Faculty, researchers and fellows from the UCLA Division of Digestive Diseases will present more than 90 accepted abstracts at the upcoming Digestive Disease Week. Please join us at the following sessions:

MAY 18

Phosphatase and Tensin Homolog PTEN is an Essential Regulatory Factor in Toll-like Receptor 5-elicited Inflammatory Responses

Distinguished Abstract Plenary

Eunok Im, Jane Jung, Charalabos Pothoulakis, Sang H. Rhee

Predictors of Recurrent Barrett's Esophagus After Successful Radiofrequency Ablation in a Nationwide, Multicenter Cohort: Results from the U.S. RFA Registry

AGA/ASGE Presidential Plenary

WJ Bulsiewicz, ES Dellon, WD Lyday, A Ertan, DS Camara, S Komanduri, GW Chmielewski, **V. Raman Muthusamy**, NJ Shaheen

What Causes "Functional" Bowel Disorders? Recent Insights and What It Means for the Clinician

Postgraduate Course

Lin Chang

The "Impossible" Abdominal Pain Patient: Treatment Strategies and Helpful Hints

Postgraduate Course

Lin Chang

How to Achieve the Optimal Bowel Preparation: What Diet, What Solution, What Intervals?

Clinical Symposium

Brennan M. Spiegel

Human Monoclonal Antibodies Against Clostridium Difficile Toxin A and B Inhibit Inflammatory Responses and Epithelial Cell Damage to Toxins A and B in Human Peripheral Blood Monocytes and Human Colonic Tissues

Research Forum

T Hing, **Hon Wai Koon**, DQ Shih, JH Yoo,

S Ho, X Chen, CP Kelly, SR Targan,

Charalabos Pothoulakis

GERD Symptoms in the General Population: Prevalence and Severity vs. Care Seeking Patients

Research Forum

ER Cohen, **Roger Bolus**, D Khanna, **Lin Chang**,

GY Melmed, P Khanna, **Brennan M. Spiegel**

Introduction – Putting Patients First: Actionable Evidence for Clinical Practice (AGPG) Postgraduate Course

Brennan M. Spiegel

Biodegradable Stents are Superior to Fully Covered Metal Stents in the Endoscopic Management of Refractory Benign Esophageal Strictures: A Meta-analysis

Poster Session

Stephen Kim, Martijn G. van Oijen, Nikhil Agarwal, Chris M. Hamerski, Rabindra R. Watson, V. Raman Muthusamy

Characteristics of Viral Breakthrough with Direct Acting Agents for Chronic Hepatitis C Treatment in Clinical Practice

Poster Session

K Zhou, J Ferguson, S Bau, **Sammy Saab**

Crosstalk Between PKD1 and β -catenin Signaling Pathways in Intestinal Epithelial Cells

Poster Session

Y Ni, **James Sinnett-Smith**, SH Young,

Enrique Rozengurt

Effects of Urocortin 2 and Corticotropin-Releasing Hormone Receptor 2 in Colorectal Cancer Growth and Metastasis

Poster Session

J Rodriguez, **Charalabos Pothoulakis,**

Stavroula Baritaki

Estrogens Promote Development of Colitis-associated Cancer

Poster Session

J Heijmans, MC Wielenga, S Rosekrans, JF van Lidth de Jeude, JJ Roelofs, P Groothuis, A Ederveen, ES de Jonge Muller, I Biemond, JC Hardwick, **Daniel W. Hommes**, V Muncan, GR van den Brink

Fidaxomicin and OPT-1118 Inhibit Clostridium Difficile Toxin A – Mediated Inflammation in Mouse Ileum

Poster Session

T Hing, S Ho, **Hon Wai Koon**, JH Yoo, X Chen,

CP Kelly, **Charalabos Pothoulakis**

Helicobacter Pylori Infection and Apical Acidity Alter Transepithelial Resistance, Paracellular Permeability, and Inflammatory Response in Gastric Epithelial Cells

Poster Session

EA Marcus, O Vagin, E Tokhtaeva, **George Sachs**, DR Scott

Identification of Protein Kinase D1 as a Mediator of Feedback Inhibition of PI3K/Akt Activation in Intestinal Epithelial Cells Stimulated with G Protein-coupled Receptor Agonists

Poster Session

Y Ni, **James Sinnett-Smith, Enrique Rozengurt**

Identifying the Ideal Strategy for the Management of Refractory Benign Esophageal Strictures: A Cost-minimization Analysis

Poster Session

Stephen Kim, Martijn G. van Oijen, Rabindra R. Watson, Chris M. Hamerski, PD Siersema, V. Raman Muthusamy

Independent Predictors of Lesion Localization and Outcomes in Cirrhotic and Non-cirrhotic Patients with Severe Hematochezia by Bivariate and Multivariate Analyses

Poster Session

Marine Camus, Dennis M. Jensen, Mary Ellen Jensen, Daniela Markovic, Jeffrey Gornbein

Intracellular Ca^{2+} Oscillations Produced by the Ca^{2+} -sensing Receptor are Mediated by Negative Feedback by Protein Kinase C at Thr888

Poster Session

SH Young, **Oswaldo Rey, James Sinnett-Smith,**

Enrique Rozengurt

Neurotensin-HIF-1 α -microRNA 210 Axis Orchestrates Hypoxia, Colonic Inflammation and Intestinal Angiogenesis.

Poster Session

Kyriaki Bakirtzi, Christos Polytarchou, Maria Hatzia Apostolou, Dimitrios Iliopoulos, Charalabos Pothoulakis

Primary Myfibroblasts Maintain Short-term Viability Following Submucosal Injection in Syngeneic, Immune-competent Mice Utilizing Murine Colonoscopy

Poster Session

HA Khalil, W Nie, **Enrique Rozengurt**, MG Stelzner, MG Martin, J Dunn, J Yoo

Protein Kinase D1 is an Upstream Kinase for Class II Histone Deacetylases (HDAC) 4, 5 and 7 in Intestinal Epithelial Cells
Poster Session
James Sinnett-Smith, RK Kui, **Enrique Rozengurt**

Protein Kinase D1 (PKD1) Promotes Migration of Intestinal Epithelial Cells
Poster Session
SH Young, **James Sinnett-Smith**, **Enrique Rozengurt**

The Impact of Arthropathies in Inflammatory Bowel Diseases is Significant: Results from a Longitudinal Analysis in a Multi-disciplinary IBD Clinic
Poster Session
Daniel W. Hommes, H Fidler, AE van der Meulen-de Jong, L Brakenhoff

MAY 19

Bloating and Distension: Understanding the Mechanisms and Optimizing Management
Meet the Professor Session
Lin Chang, F Cremonini

Endoscopic Treatment of Foreign Bodies and Food Impactions
Meet the Expert
Bennett Roth

Human Gut Microbiota Modulates Gut Serotonergic Pathway and Motility
Plenary Session
PC Kashyap, CS Reigstad, A Marcobal, **Muriel H. Larauche**, S Higginbottom, **Yvette Taché**, DR Linden, G Farrugia, J Sonnenburg

Durability of Reversion to Squamous Mucosa After Successful Eradication of Barrett's Esophagus (BE) with Radiofrequency Ablation (RFA): Results from the U.S. RFA Registry
Topic Forum
WJ Bulsiewicz, S Pasricha, S Komanduri, **V. Raman Muthusamy**, RI Rothstein, HC Wolfsen, CJ Lightdale, BF Overholt, DS Camara, NJ Shaheen

Hands-on Stations – Barretts and Esophageal Cancer
Research Forum
TH Baron, ML Davila, KS Dua, JB Klapman, CJ Lightdale, **V. Raman Muthusamy**, JN Shah, NJ Shaheen, VM Shami

Racial Differences in the Characteristics of Barrett's Esophagus (BE) and Response to Radiofrequency Ablation (RFA) Treatment: Results from the U.S. RFA Registry
Research Forum
N Li, WJ Bulsiewicz, CJ Lightdale, RD Madanick, G Triadafilopoulos, WD Lyday, **V. Raman Muthusamy**, A Infantolino, BF Overholt, NJ Shaheen

Dr. Twitter and Dr. Google at Your Service: Real-life Examples of Using Social Media for GI Patient Care and Clinical Research
Postgraduate Course
Martijn G. van Oijen

Managing Ascites in 2013: Evolving Approaches to an Age-old Problem
Postgraduate Course
Bruce A. Runyon

Putting Patients First – Top "Take Home" Points from the Meeting to Bring Back to Your Patients
Postgraduate Course
Brennan M. Spiegel

The Health Technology Revolution: Get Up to Speed, or Get Passed By & the Quantified Patient: Using Apps and Wireless Sensors to Monitor Your Patients Between Visits
Postgraduate Course
Brennan M. Spiegel

Hands-on Stations – Luminal Stenting and Ablation (HW5)
Hands-on Workshop
V. Raman Muthusamy

A Multi-national Investigation of Attachment, Catastrophizing and Negative Pain Beliefs in Irritable Bowel Syndrome
Poster Session
MJ Gerson, C Gerson, **Lin Chang**, E Corazziari, D Lucian Dumitrascu, UC Ghoshal, P Porcelli, MJ Schmulson, WA Wang, MR Zali

Alterations in Regional Brain Network Properties in Irritable Bowel Syndrome
Poster Session
Jennifer S. Labus, JD Van Horn, C Torgerson, **Cody Ashe-McNalley**, A Irimia, MC Chambers, **Kirsten Tillisch**, **Emeran A. Mayer**

Differences in Resting-state BOLD Oscillation Signals Between Healthy and IBS Subjects
Poster Session
Jui-Yang Hong, Lisa A. Kilpatrick, **Jennifer S. Labus**, **Zhiguo Jiang**, Arpana Gupta, **Cody Ashe-McNalley**, Jean Stains, Bahar Ebrat, **Kirsten Tillisch**, **Bruce D. Naliboff**, **Emeran A. Mayer**

Gender and Group Differences in Gastro-intestinal Symptom Severity Between Irritable Bowel Syndrome and Inflammatory Bowel Disease Patients and the General Population
Poster Session
Lin Chang, **Roger Bolus**, GY Melmed, RD Hays, D Khanna, P Khanna, **Brennan M. Spiegel**

High-intense Rectal Urgency and its Representation in the Brain
Poster Session
SA Walter, M Lowén, **Emeran A. Mayer**, **Kirsten Tillisch**, M Engström, AD Craig

Measuring Health Related Quality of Life (HRQOL) in Crohn's Disease Using Twitter: A Pilot Study of Social Media as a Novel Tool to Assess Disease Burden
Poster Session
DE Strom, **Victoria Sheen**, C Arnold, **Brennan M. Spiegel**, **Martijn G. van Oijen**

Qualitative Assessment of Symptom Experience in Patients with Irritable Bowel Syndrome for the Development of Patient-reported Outcome Instruments
Poster Session
MJ Baird, R Carson, C Ervin, **Lin Chang**, **Brennan M. Spiegel**, NJ Norton, JM Lackner, K Lasch, S Fehnel

Regional Neuroplastic Brain Changes in Patients with Inflammatory Bowel Diseases (IBD) and Irritable Bowel Syndrome (IBS)
Poster Session
Jui-Yang Hong, **Jennifer S. Labus**, **Zhiguo Jiang**, **Cody Ashe-McNalley**, Jean Stains, Bahar Ebrat, **Kirsten Tillisch**, I Dinov, Y Shi, **Emeran A. Mayer**

Resting State Brain Changes in Patients with Inflammatory Bowel Disease
Poster Session
Kirsten Tillisch, **Cody Ashe-McNalley**, **Sneha Shaha**, **Jennifer S. Labus**, Jean Stains, **Emeran A. Mayer**

Use of Twitter as a Platform for Health Information Exchange about Viral Hepatitis
Poster Session
K Shahedi, **Martijn G. van Oijen**

Wide Disparities in Attitudes and Practices Regarding Type II Sphincter of Oddi Dysfunction: A Survey of Expert U.S. Endoscopists
Poster Session
Rabindra R. Watson, AK. Jain, JN Shah, S Komanduri, JB Klapman, **V. Raman Muthusamy**

MAY 20

HBV: HBIG Out, Antivirals In
Clinical Symposium
Sammy Saab

Management of Surgical Risk in Patients
with Cirrhosis
Combined Clinical Symposium
Bruce Runyon, S Cleary

G Protein-coupled Bile Acid Receptor TGR5 is
Expressed in the Colon and Increases Distal
Colonic Transmembrane Ion Exchanges in Rats
Research Forum
H Duboc, **Muriel Larauche, Pu-Qing Yuan,
Million Mulugeta, Yvette Taché**

Doppler Ultrasound Probe (DUP) Detection
of Arterial Blood Flow in Severe Delayed
Post-polypectomy Induced Ulcer Hemorrhage
(PPIUH): Relationship to Stigmata & Implications
for Primary Prevention
Topic Forum
**Gordon V. Ohning, Kevin A. Ghassemi,
Dennis M. Jensen, Thomas O. Kovacs, GA
Machicado, GS Dulai, Rome Jutabha**

Randomized Controlled Trial (RCT) of Hemoclip
Closure of Post-polypectomy Induced Ulcers
(PPIU's) for Prevention of Delayed Hemorrhage
in Patients on Chronic Warfarin: Initial Results,
Techniques & Recommendations
Topic Forum
**Dennis M. Jensen, Kevin A. Ghassemi,
Gordon V. Ohning, Thomas O. Kovacs**

Urgent Capsule Endoscopy for Bleeding Site
Localization & Lesion Diagnosis of Patients
with Severe Hematochezia
Topic Forum
**Marine Camus, Dennis M. Jensen, Gordon V.
Ohning, Thomas O. Kovacs, Rome Jutabha,
Kevin A. Ghassemi**

Corticotropin Releasing Hormone Receptor 1
(CRH-R1) and Progesterone Receptor (PGR)
Polymorphisms Interact with Early Life Trauma
in Healthy Controls (HC) and Patients with
Irritable Bowel Syndrome (IBS)
Research Forum
**Lisa A. Kilpatrick, Arpana Gupta, Nuwanthi
Heendeniya, Jennifer S. Labus, Emeran A. Mayer**

Corticotropin Releasing Hormone Receptor 1
(CRH-R1) Polymorphisms are Predictive
of Irritable Bowel Syndrome (IBS) Status
Research Forum
M Gadd, W Shih, AP Presson, **Nuwanthi
Heendeniya, Emeran A. Mayer, Lin Chang**

Distinct effects of Ifn- γ and IL-17A on
TL1a-modulated Murine Regional Inflammation
and Fibrosis
Research Forum
L Zheng, X Zhang, R Ichikawa, J Chen, K Wallace,
**Charalabos Pothoulakis, Hon Wai Koon,
SR Targan, DQ Shih**

Early Adverse Life Events: Influence on Resting
State Connectivity in Somatosensory, Cognitive
and Pain Regions in Male and Female Patients
with Irritable Bowel Syndrome
Research Forum
**Arpana Gupta, Lisa A. Kilpatrick, Adam Braun,
Jennifer S. Labus, Kirsten Tillisch, Jui-Yang Hong,
Jean Stains, Suzanne R. Smith, Bahar Ebrat,
Cody Ashe-McNalley, Bruce D. Naliboff,
Emeran A. Mayer**

A Systematic Review of Patient, Provider and
System Barriers to Colorectal Cancer Screening
with Colonoscopy in African-Americans
Poster Session
EG Bromley, **Folasade P. May, L Federer,
Brennan M. Spiegel, Martijn G. van Oijen**

Effect of Ghrelin Agonist, Anamorelin on
Feeding, Meal Structure and Body Weight
in Alpha-synuclein Over-expressing Mice
Poster Session
**Lixin Wang, C Pietra, Honghui Liang,
SR Northrup, MF Chesselet, Yvette Taché**

Effect of Site Volume on Eradication of
Barrett's Esophagus (BE): Results from the
U.S. RFA Registry
Poster Session
S Pasricha, WJ Bulsiewicz, **V. Raman Muthusamy,
S Komanduri, HC Wolfsen, RE Pruitt, A Ertan,
GW Chmielewski, NJ Shaheen**

Effects of Substance P on Pro- and Anti-
inflammatory Responses of Human Mesenteric
Preadipocytes Isolated from IBD Patients
Research Forum
**Aristea Sideri, Kyriaki Bakirtzi, R Arsenescu,
P Fleshner, DQ Shih, Iordanis Karagiannidis,
Charalabos Pothoulakis**

Initial Covered Metal Stent Placement is Less
Expensive Than Serial Plastic Stenting for
Biliary Decompression in Patients Receiving
Downstaging Chemotherapy for Locally
Advanced Pancreatic Cancer: A One Year
Cost Minimization Study
Poster Session
**Nikhil Agarwal, Martijn G. van Oijen,
Chris M. Hamerski, Rabindra R. Watson,
V. Raman Muthusamy**

Irritable Bowel Syndrome Symptoms are Related
to the Resting Brain's Sensorimotor Network
Research Forum
**Michelle P. Chen, SA Walter, M Lowén, Jennifer
S. Labus, Lisa A. Kilpatrick, Emeran A. Mayer,
Kirsten Tillisch**

Liver Transplant Referral at an Urban Public
Hospital: Opportunities for Improvement
Poster Session
A Datta, **Brennan M. Spiegel,
Simon W. Beaven, VE Eysselein**

Low Uptake of Colorectal Cancer Screening
Among African-Americans in an Integrated
Veterans Affairs Healthcare Network
Poster Session
**Folasade P. May, EG Bromley, MD Baek,
JL Yoon, ER Cohen, A Lee, MW Reid,
Martijn G. van Oijen, Brennan M. Spiegel**

Opioid Stimulation of Mitogen-activated Protein
Kinase (MAPK) in Enteric Neurons is Mediated
by Dynamin-dependent μ Opioid Receptor
(μ OR) Endocytosis
Research Forum
CC Duraffourd, **Laura Anselmi, Catia Sternini**

Outcomes of Plastic Biliary Stent Placement
in Patients with Biliary Obstruction Secondary
to Locally Advanced Pancreatic Neoplasms
Receiving Downstaging Chemotherapy
Poster Session
**Chris M. Hamerski, PS Ge, Rabindra R. Watson,
S Komanduri, K Bidari, BB Cinnor, JB Klapman,
CL Lin, SC Zhang, TR Donahue,
V. Raman Muthusamy**

Pituitary Adenylate-Cyclase Activating
Peptide (PACAP) Injected Intraperitoneally (IP)
Suppresses Ghrelin Release and Appetite
Poster Session
F Deepinder, JP Vu, L Luong, J Norris,
Joseph R. Pisegna, PM Germano

Transplant Referral at an Urban Public Hospital:
Opportunities for Improvement
Poster Session
A Datta, **Brennan M. Spiegel, Simon W. Beaven,
VE Eysselein**

Vasoactive Intestinal Peptide (VIP) Plays a Role
in the Regulation of Orexigenic and Anorexigenic
Hormones and Body Fat and Lean Mass
Composition
Poster Session
JP Vu, MH Larauche, J Norris, L Luong, G Kwok,
J Waschek, **Joseph R. Pisegna, PM Germano**

MAY 21

IBS: What are the Best Proven Therapies?

Breakfast with the Expert

Brennan M. Spiegel

Outcome Measurement in FGID Clinical Trials: Current Practice and Novel Future Directions
Clinical Symposium

Brennan M. Spiegel

Albumin Predicts Mortality and Other Outcomes in Acute Gastrointestinal Bleeding (GIB)

Research Forum

C Nordstrom, **Sundip S. Karsan**, MW Reid,

Brennan M. Spiegel

Further Validation of a Novel Patient Educational Booklet to Enhance Colonoscopy Preparation: Benefits in Single-dose, but Not Split-dose Preparations

Research Forum

A Lee, M Vu, DA Fisher, R Modi, MD Baek,

MR Johnson, **Brennan M. Spiegel**

Independent Risk Factors of 30-day Outcomes in Peptic Ulcer Bleeding (PUB's) by Multivariate Analyses: Is Ulcer Size a Predictor of Worse Outcomes with Current Treatments?

Research Forum

Marine Camus, **Thomas O. Kovacs**, **Dennis M. Jensen**, **Mary Ellen Jensen**, **Daniela Markovic**, **Jeffrey Gornbein**

Neurotensin-induced Tumor Formation is Regulated by Neurotensin Receptor 1 (NTR1)/ MicroRNA-133a-associated NTR1 Recycling Involving the Negative Regulator Zinc Finger E-box-binding Homeobox 1 (ZEB1)

Research Forum

Ivy Ka Man Law, **Kyriaki Bakirtzi**, **Christos Polytarchou**, NW Bunnett, **Dimitrios Iliopoulos**, **Charalabos Pothoulakis**

Preparing for the Affordable Care Act in Inflammatory Bowel Diseases: A 2010-2012 US Insurance Claims Analysis

Research Forum

Jennifer M. Choi, **Daniel W. Hommes**, **Eric Esrailian**, B Wong-Swanson, **Adriana Centeno**, EM McLaughlin, W Howard, KD Myers, **Martijn G. van Oijen**

The Efficacy and Safety of Radiofrequency Ablation (RFA) for Treatment of Barrett's Esophagus Containing Intramucosal Carcinoma (IMC): Results from the U.S. RFA Registry Research Forum

KE Hathorn, WJ Bulsiewicz, ES. Dellon, RI Rothstein, FS Corbett, **V. Raman Muthusamy**, BF Overholt, S Komanduri, NJ Shaheen

The Inpatient Economic and Mortality Assessment for Liver Transplantation: A Nationwide Study of the United States Data from 2005 to 2009

Research Forum

M Stepanova, H Wai, MK Srishord, **Sammy Saab**, M Erario, ZM Younossi

Chromatin Modulation in IBD
Translational Symposium

Dimitrios Iliopoulos

Anti-fibrogenic Roles of Cathelicidin in Chronic Colitis Associated Colonic Fibrosis

Poster Session

JH Yoo, S Ho, M Cheng, DH Tran, Y Kubota, T Hing, DQ Shih, R Gallo, **Charalabos Pothoulakis**, **Hon Wai Koon**

Corticotropin-releasing Factor (CRF)-Proopiomelanocortin (POMC)- β -endorphin (END) System in the Rat Colon: Expression, Regulation and Implication in the Local Modulation of Visceral Pain

Poster Session

Pu-Qing Yuan, **Muriel H. Larauche**, SV Wu, **Yvette Taché**

Corticotropin-releasing Hormone Receptors Activate Inflammatory Pathways in Mesenteric Adipose Tissue

Poster Session

Jill M. Hoffman, **Christopher Fink**, **Aristea Sideri**, **Ivy Ka Man Law**, **Iordanis Karagiannidis**, **Charalabos Pothoulakis**

Differences in Gastrointestinal Symptom Severity Between Irritable Bowel Syndrome (IBS) and Inflammatory Bowel Disease (IBD) Patients and the General Population

Poster Session

Lin Chang, **Roger Bolus**, GY Melmed, RD Hays, D Khanna, P Khanna, **Brennan M. Spiegel**

Effect of Satiety Hormone Analog, Exenatide, on Resting State Brain Activity

Poster Session

Kristen Coveleskie, **Emeran A. Mayer**, **Cody Ashe-McNalley**, **Jean Stains**, **Lynn S. Connolly**, **Lisa A. Kilpatrick**

How Well Do Physicians Perceive Severity of Patients' Gastrointestinal Symptoms? A Comparison Across Disease States

Poster Session

ER Cohen, RD Hays, **Roger Bolus**, S Bolus, D Khanna, **Lin Chang**, P Khanna, **Brennan M. Spiegel**, GY Melmed

Preadipocyte-specific Effects on Human Colonocyte Proinflammatory Responses are Obesity and IBD-dependent

Poster Session

Aristea Sideri, **Kyriaki Bakirtzi**, R Arsenescu, P Fleshner, DQ. Shih, **Charalabos Pothoulakis**, **Iordanis Karagiannidis**

Protection of the Enteric Nervous System in Colitis: A Therapeutic Approach for IBD?

Poster Session

P Giannogonas, **Charalabos Pothoulakis**, A Gravanis, KP Karalis

The Combined Nutrient and Lactulose Challenge Test: A New Non-invasive Test for Visceral Sensitivity in Irritable Bowel Syndrome (IBS)

Poster Session

C Grinsvall, B Le Nevé, D Guyonnet, H Törnblom, **Bruce D. Naliboff**, **Emeran A. Mayer**, M Simren

The Isoquinoline Alkaloid Berberine Inhibits the Growth of Human Pancreatic Cancer Cells in Vitro and in Vivo

Poster Session

James Sinnett-Smith, K Kisfalvi, SH Young, OJ Hines, G Eibl, **Enrique Rozengurt**

Twitter Offers Insight into Health Related Quality of Life (HRQOL) in Ulcerative Colitis

Poster Session

ER Cohen, **Brennan M. Spiegel**, **Martijn G. van Oijen**

Twitter-based "Virtual Focus Group" Yields Similar Results as Traditional Face-to-face Focus Groups: A Pilot Study in GERD Patients

Poster Session

MD Baek, CB Whitman, **Brennan M. Spiegel**, G Fuller, **Roger Bolus**, J Talley, **Martijn G. van Oijen**