### SATURDAY, MAY 16

**The Problem of Abdominal Pain: How To Work Up, Evidence On Effective Treatments**  
Postgraduate Course General Session  
Lin Chang

**Managing the Complicated IBS Patient**  
Postgraduate Course Clinical Challenge Sessions  
Lin Chang

Transpapillary drainage has no benefit on treatment outcomes in patients undergoing EUS-guided transmural drainage of pancreatic fluid collections: a multi-center study  
Topic Forum  

**Effect of the GLP-1 Analogue Exenatide on Functional Connectivity within Hedonic and Homeostatic Brain Networks in Lean and Obese Women**  
Research Forum  
Kristen Coveleskie, Lisa A. Kilpatrick, Arpana Gupta, Cody Ashe-McNalley, Jean Stains, Claudia P. Sanmiguel, Emeran A. Mayer

Expression of substance P (SP)-regulated miR-31-3p is increased in colitis and modulates RhoA expression in human colonic epithelial cells  
Research Forum  
Kai Fang, Ivy Ka Man Law, Aristea Sideri, Hon Wai Koon, Dimitrios Iliopoulos, Charalabos Pothoulakis

**Luminal fatty acid sensing regulates mesenteric lymphatic flow and fatty acid transport in rats**  
Research Forum  
Kazuyuki Narimatsu, Yasutada Akiba, Izumi Kaji, H Said, Jonathan D. Kaunitz

**TI1a deficiency, but not Dr3 deficiency, ameliorated murine models of chronic colitis: implications for drug development**  
Research Forum  
Y Kanazawa, H Zhang, MF Fiorino, AM Hamill, A Von Arx, Hon Wai Koon, Charalabos Pothoulakis, J Bilsborough, S Targan, DQ Shih

**Anatomical Connections in the Brain Based on Body Mass Index in Lean, Overweight, and Obese Individuals**  
Poster Session  
Arpana Gupta, Davis C. Woodworth, Jennifer S. Labus, Claudia P. Sanmiguel, Kirsten Tillisch, Benjamin M. Ellingson, Emeran A. Mayer

**Automated Evaluation of Gastrointestinal Symptoms (AEGIS) Versus Physician Identification of Gastrointestinal Alarm Features**  
Poster Session  
Christopher V. Almario, WD Chey, S Iriana, CB Whitman, G Fuller, MW Reid, R Bolus, RA Dennis, R Encarnacion, BM Martinez, J Talley, Rushabh Modi, N Agarwal, A Lee, S Kubomoto, S Bolus, Lin Chang, B Spiegel

**Brain activation and food intake reduction induced by abdominal surgery in mice: influence of rikkunshito**  
Poster Session  
Lixin Wang, Yvette Taché

**Choice of Initial Radiofrequency Ablation Treatment Device in Barrett’s Esophagus is Associated with Different Rates of Recurrence and Complications**  
Poster Session  
WA Wolf, CC Cotton, V. Raman Muthusamy, S Eluri, RE Pruitt, T Runge, HC Wolfsen, N Li, S Pasricha, S Komanduri, NJ Shaheen

**Combined water exchange and cap-assisted colonoscopy optimizes insertion pain control and completion of colonoscopy without pain in unsedated male patients with high yield of proximal colon adenomas**  
Poster Session  
Felix W. Leung, YH Hsieh, JW Leung, James Sul, A Yen

**Durable Clinical Remission and Response in Adali-mumab-Treated Patients with Ulcerative Colitis**  
Poster Session  

**Effects of Ethanol, Insulin and Tumor Microenvironment on Hyaluronic Acid Synthetic Capability in Pancreatic Mesenchymal Fibroblasts**  
Poster Session  
Richard T. Waldron, O Shaully, HY Su, Aurelia Lugea, Stephen Pandol

**Emerging role of gastrointestinal bitter taste receptors in treating type 2 diabetes**  
Poster Session  
R Abrol, S Morvaridi, H Pham, Shuping S. Wu, H Hui, Stephen Pandol

**Esophageal muscularis mucosa contraction increases transepithelial electrical resistance via the TRP-ATP-P2R pathway in rats**  
Poster Session  
Yasutada Akiba, Izumi Kaji, David W. Adelson, Kazuyuki Narimatsu, Jonathan D. Kaunitz

**FFA2 activation suppresses basal and stimulated gastric acid secretion via 5-HT3 receptor activation in rats**  
Poster Session  
H Said, Yasutada Akiba, Izumi Kaji, Kazuyuki Narimatsu, Jonathan D. Kaunitz
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<td>Laparoscopic Resection (LR) is Not Cost-effective Compared to Endoscopic Resection (ER) in the Management of Large Colon Polyps: An Economic Analysis</td>
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<td>Variation in Learning Curves and Competence for Endoscopic Retrograde Cholangiopancreatography Among Advanced Endoscopy Trainees (AETs) Using Cumulative Sum Analysis (CUSUM) – Implication for American Society For Gastrointestinal Endoscopy Society for Gastrointestinal Endoscopy Recommendations for Training</td>
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Reassessment of Ulcer Bleeds with Adherent Clots Using Arterial Blood Flow as a Guide to Definitive Hemostasis

Topic Forum
Dennis M. Jensen, Thomas O. Kovacs, Gordon V. Ohning, Kevin A. Ghassemi, Jeffrey R. Lewis, GS Dulai, GA Machicado

State-of-the-Art – Optimizing Your Adenoma Detection Rate
Topic Forum
Felix W. Leung

10-Year Experience of a Large Liver Transplant Center: Routine, Non-Invasive Blood Tests are Predictive of Significant Fibrosis in Hepatitis C Patients Following Liver Transplantation
Research Forum
Victoria Sheen, H Lee, M Jimenez, V Agopian, S Vangala, D Elashoff, Sammy Saab

Crosstalk between PKD1 and β-catenin signaling pathways in PKD1 transgenic mice and cultures of intestinal epithelial cells
Research Forum
James Sinnett-Smith, Yang Ni, Nora Rozengurt, Steven H. Young, Enrique Rozengurt

A Novel Submucosal Injection Solution is Superior to Saline in Facilitating ESD Performed by Western Endoscopists
Poster Session
Rabindra R. Watson, JB Klapman, S Komanduri, L Hosford, JN Shah, S Wani, V. Raman Muthusamy

Barrett’s Esophagus Advanced Neoplasia Calculator (BANC): A Personalized, Web-based Predictive Model of High Grade Dysplasia and Adenocarcinoma Following Successful Eradication of Barrett’s Esophagus with Radiofrequency Ablation
Research Forum
CC Cotton, LC Duits, WA Wolf, V. Raman Muthusamy, S Eluri, RE Pruitt, T Runge, HC Wolfen, N Li, S Pasricha, S Komanduri, NJ Shaheen

Effects of Rifaximin on Urgency, Bloating, and Abdominal Pain in Patients with IBS-D: A Randomized, Controlled, Repeat Treatment Study
Research Forum
WD Chey, Lin Chang, A Lembo, K Aggarwal, E Bortey, C Paterson, WP Forbes

Enhanced stimulated stress hormone response in irritable bowel syndrome (IBS) is associated with downregulation of glucocorticoid receptor expression
Research Forum
MA Adeyemo, W Shih, AP Presson, Swapna M. Joshi, Emeran A. Mayer, Lin Chang

Antimicrobial peptide cathelicidin inhibits obesity in diabetic mice via inhibition of CD36 fat receptor expression
Poster Session
Deanna H. Tran, Diana Hoang-Ngoc Tran, Anjani Mattai, Samantha Ho, Aristea Sideri, Kyriaki Bakirtzi, Iordanis Karagiannidis, DQ Shih, Simon W. Beaver, Hon Wai Koon

Evidence to suggest adoption of water exchange (WE) deserves broader consideration: The pain alleviating impact of WE occurs in 90% of investigators
Poster Session
S Cadoni, P Falt, S Sanna, M Argiolas, V Fanari, P Galli, M Liggi, D Mura, L Porcedda, V Smajstrla, M Erriu, Felix W. Leung

High protein diet improves meal pattern and response to cholecystokinin (CCK) in high fat diet-induced obese rats
Poster Session
Lixin Wang, Joseph R. Reeve, Joseph R. Pisegna, Yvette Taché

Identification of a novel function of corticotropin releasing factor (CRH) in the repair of intestinal epithelium in DSS colitis
Poster Session
P Giannogonas, AP Apostolou, P Agraftiotou, C Tamvakopoulos, Charalabos Pothoulakis, KP Karalis

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Intestinal adiponectin receptor 1 (AdipoR1) modulates inflammation during colitis: A potential link in adipose tissue-intestinal crosstalk during inflammatory bowel disease
Poster Session
Aristea Sideri, Hon Wai Koon, DQ Shih, Charalabos Pothoulakis, Iordanis Karagiannidis

Pancreas-specific deletion of protein kinase D attenuating necrosis during experimental pancreatitis is associated with alteration of cell death signaling proteins
Poster Session
Jingzhen Yuan, Lucy Li, T Tan, Stephen Pandol

Rapid Assessment of Trainee Endoscopy Skills (RATES) Study: A Prospective Multicenter Study Evaluating Competence in Endoscopic Ultrasonography (EUS) and Endoscopic Retrograde Cholangiopancreatography (ERCP) Among Advanced Endoscopy Trainees (AETs)
Poster Session
S Wani, D Mullady, DS Early, CJ DiMaio, RN Keswani, A Rastogi, V. Raman Muthusamy, GA Cote, L Hosford, L Carlin, S Ellert, S Ouellet, RJ Shah, AF Wang, SA Edmondowicz

Remote monitoring of IBD disease activity using the mobile Health Index (mHI): A validation study
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The trans-golgi network protein aftpilin is involved in regulation of intestinal epithelial permeability in colonic epithelial cells
Poster Session
Ivy Ka Man Law, Charalabos Pothoulakis

Predictive Overbooking Maximizes Endoscopy Utilization in an Outpatient Clinic
Distinguished Abstract Plenary
MW Reid, Folasade P. May, SE Cohen, F Dailey, B Spiegel
MONDAY, MAY 18

Regional brain morphology is associated with gut microbial metabolites in irritable bowel syndrome (IBS)

Distinguished Abstract Plenary
Jennifer S. Labus, N Oezguen, EB Hollister, Kirsten Tillisch, T Savidge, J Versalovic, Emeran A. Mayer

Post-Operative Gastrointestinal (GI) Telemetry with a Wearable Acoustic Biosensor Distinguishes Ileus vs. Uneventful GI Recovery

Plenary Session

Keeping Your Patient with Cirrhosis Alive
Breakfast with the Expert
Bruce A. Runyon, MW Russo

Difficult Problems in ERCP: A Case-Based Approach

Meet-the-Professor Luncheon
V. Raman Muthusamy, O Haluszka

A novel epigenetic regulator of pancreatic cancer growth

Topic Forum
Marina Koutsioumpa, Maria Hatziapostolou, Christos Polytarchou, Christina Vorvis, Swapna M. Joshi, Dimitrios Iliopoulos

Red Cell Transfusions Do Not Increase 30 day Mortality Rates for Unselected Patients with Severe UGI Hemorrhage

Topic Forum
Dennis M. Jensen, D Markovic, Mary Ellen Jensen, J Gornbein

Comparison of insertion techniques for luminal distention for on-demand sedation colonoscopy: air insufflation, carbon dioxide and water-aided colonoscopy - a two-center randomized controlled trial

Topic Forum
S Cadoni, P Falt, P Gallittu, M Lligi, D Mura, V Smajstrla, M Erriu, Felix W. Leung

Corticotropin-releasing hormone receptor 2 mediates epithelial cell proliferation, apoptosis and mucosal repair following colitis

Research Forum
Jill M. Hoffman, Stavroula Baritaki, Jonathan J. Ruiz, Aristeia Sideri, Charalabos Pothoulakis

Effect of µ Opioid Receptor Activation on Proteins Modulating Inflammation and Barrier Function in Intestinal Ischemia-Reperfusion

Research Forum
Celine C. Duraffourd, Jessica Tsui, Nick Brecha, Catia Sternini

IBS Patients Have SCNSA Mutations That Result in Decreased Nav1.5 Current and Mechanosensitivity

Research Forum
L Neshatian, PR Strege, A Beyder, CE Bernard, A Mazzone, SJ Gibbons, DJ Tester, ML Will, Emeran A. Mayer, Lin Chang, MJ Ackerman, G Farrugia

Increased expression of µ opioid and cannabinoid receptors in the colonic mucosa of patients with irritable bowel syndrome (IBS)

Research Forum
Giovanni Dothel, Lin Chang, W Shih, MR Barbaro, V Stanghellini, F De Ponti, Emeran A. Mayer, G Barbara, Catia Sternini

Red Cell Transfusions Do Not Increase 30 day Mortality Rates for Unselected Patients with Severe UGI Hemorrhage

Research Forum
Dennis M Jensen, D Markovic, Mary Ellen Jensen, F Gornbein

Varying quality of dysplasia surveillance colonoscopies for the inflammatory bowel disease (IBD) patient (Poster Presentation)

Committee Sponsored Symposium
Andrew D. Ho, NN Jamaluddin, Christina Ha

Active Recruitment Increases Uptake of Endoscopy Among African-American and Asian-American Patients

Poster Session
Folasade P. May, MW Reid, SE Cohen, B Spiegel

Adiposity is associated with alterations within the brain reward system in adult subjects

Poster Session
Claudia P. Sanmiguel, Arpana Gupta, Jennifer S. Labus, Kristen Covelleskie, Iordanis Karagiannidis, Mher Alaverdyan, Cody Ashe-McNalley, Jean Stains, Suzanne R. Smith, Kirsten Tillisch, Lin Chang, Emeran A. Mayer

Adverse Childhood Experiences are Associated with Irritable Bowel Syndrome and Gastrointestinal Symptom Severity

Poster Session
Sarah Park, W Shih, AP Presson, Emeran A. Mayer, Lin Chang

Cathelicidin Mimic Ceragenin CSA13 Modulates Clostridium Difficile Associated Colitis and Toxin A Mediated Enteritis in Mice

Poster Session
Bowei Su, Sally Ghali, Samantha Ho, Jung Eun Lee, Diana Hoang-Ngoc Tran, X Chen, CP Kelly, Hon Wai Koon

Characterizing the Effect of Rifaximin on Individual Symptoms of IBS-D: Findings From the Open-Label Phase of TARGET 3

Poster Session
Lin Chang, M Pimentel, A Lembo, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Comparison of Symptoms, Health Care Utilization, and Treatment in Diagnosed and Undiagnosed Patients with IBS with Diarrhea

Poster Session
Lin Chang, K Aggarwal

Corticotropin-releasing hormone receptor 2 (CRHR2) inhibits colorectal cancer immuno-escape through regulation of Fas/FasL signaling

Poster Session
Jonathan Gevorkian, HW Verspaget, Daniel W. Hommes, Lin Chang, Charalabos Pothoulakis, Stavroula Baritaki
Determining Predictors of Higher Mortality in Inpatients with Gastrointestinal Bleeding (GIB)
Poster Session
Carl Nordstrom, MW Reid, SS Karsan, B Spiegel

Disease Relevant Components of Mindfulness in Irritable Bowel Syndrome (IBS)
Poster Session
Kirsten Tillisch, Zafar S. Gill, Jennifer S. Labus, Jean Stains, Suzanne R. Smith, Bruce D. Naliboff

Durability of Benefit in IBS-D Patients Responding to a 2-week Course of Rifaximin: Results from TARGET 3
Poster Session
M Pimentel, Lin Chang, A Lembo, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Effects of Baseline Abdominal Pain on Response to Lubiprostone in Patients with Constipation-Predominant Irritable Bowel Syndrome
Poster Session
Lin Chang, WD Chey, DA Drossman, TR Losch-Beridon, M Wang, P Lichtlen, SM Mareya

Enduring Effects Following a Course of Rifaximin Therapy in Patients with IBS-D: Incremental Benefit Upon Repeat Treatment
Poster Session
BE Lacy, M Pimentel, Lin Chang, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Genome-wide Transcriptional Profiling Demonstrates Differences Between Irritable Bowel Syndrome (IBS), Inflammatory Bowel Disease (IBD) and Healthy Controls
Poster Session
Swapna M. Joshi, Emeran A. Mayer, Lin Chang

High Protein Diet Improves Body Mass Index and Visceral Adiposity and Induces Satiety in a Human and Rat Model of Obesity
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Deepinder Goyal, Lixin Wang, Gigi Kwok, Jihane Benhammou, Gordon V. Ohning, Yvette Taché, Joseph R. Pisegna

Hypergastrinemia Associated with Gastrointestinal Dysmotility is Mediated by Vasoactive Intestinal Polypeptide (VIP)
Poster Session
Jihane Benhammou, Noam Jacob, John Vu, Gordon V. Ohning, Patrizia M. Germano, J Waschek, Joseph R. Pisegna

Incidence of Recurrence of Intestinal Metaplasia (IM) and Early Neoplasia (EN) After Endoscopic Eradication Therapy (EET) for Barrett’s Esophagus (BE): A Systematic Review and Meta-analysis
Poster Session
LL Fujii-Lau, S Gaddam, DS Early, SA Edmundowicz, S Komanduri, V. Raman Muthusamy, A Das, VM Kushner, D Mullady, F Murad, S Wani

Inhibition of microRNA-29a in human bone marrow mesenchymal stem cells increases their immunomodulatory function
Poster Session
Angelos Oikonomopoulos, Christos Polytarchou, Precious Lacey, Tamera A. Tomakili, Maria Hatziaiapololou, Georgios Koukos, Daniel W. Hommes

Internal consistency and test-retest reliability of the Early Trauma Inventory Self Report-Short Form (ETI-SR) in patients with irritable bowel syndrome (IBS) and healthy controls
Poster Session
Elizabeth J. Videlock, Cathy Liu, W Shih, Bruce D. Naliboff, Emeran A. Mayer, Lin Chang

Longitudinal Changes in Brain Morphometry Associated with Abdominal Pain and Anxiety in Pre-adolescent Children
Poster Session
Arpana Gupta, Monica Trent, Jennifer S. Labus, Mher Alaverdyan, K Carpenter, A Angold, N Zucker, Emeran A. Mayer, HL Egger

Myeloid differentiation factor 88 (Myd88) is the linchpin of anti-tumor immunity against phosphatase and tensin homologue (Pten)-associated intestinal tumor development and metastasis
Poster Session
E Im, YS Kim, YS Kim, Charalabos Pothoulakis, Sang H. Rhee

N-terminal phosphorylation of protein kinase D1 (PKD1) in intestinal epithelial cells: A new input in PKD1 regulation
Poster Session
James Sinnett-Smith, Yang Ni, Enrique Rozengurt

Neurobiology of psychological resilience in irritable bowel syndrome (IBS) and inflammatory bowel disease (IBD) patients
Poster Session
Lisa A. Kilpatrick, Arpana Gupta, Aubrey D. Love, Jennifer S. Labus, Mher Alaverdyan, Kirsten Tillisch, Bruce D. Naliboff, Emeran A. Mayer

Race and Ethnicity Predict Lack of Physician Recommendation for Colorectal Cancer Screening
Poster Session
Folasade P. May, Christopher V. Almario, NA Ponce, B Spiegel

Regulation of YAP localization and phosphorylation in intestinal epithelial cells
Poster Session
Jian Wang, James Sinnett-Smith, Enrique Rozengurt

Regional grey matter properties in the sensorimotor network correlate with measures of visceral sensitivity, though vary with disease status and sex
Poster Session
C Griswoll, Connor Fling, Jennifer S. Labus, Arpana Gupta, M Elam, Emeran A. Mayer, M Simren

Role of the Hippo-YAP pathway in the regulation of DNA synthesis by cAMP in intestinal epithelial cells and Swiss 3T3 fibroblasts
Poster Session
Jia Wang, James Sinnett-Smith, Yang Ni, Enrique Rozengurt

The association of early adverse life events and irritable bowel syndrome (IBS) is amplified by the presence of peritraumatic fear
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Elizabeth J. Videlock, Cathy Liu, W Shih, Bruce D. Naliboff, Emeran A. Mayer, Lin Chang
The jasmonate analogue 2-hydroxyethyl 5-chloro-4,5-didehydrojasmonate exerts anti-inflammatory effects in colitis
Poster Session
J Chu, Y Lee, X Yan, SJ Kim, S Son, Charalabos Pothoulakis, HR Moon, JH Jung, E Im

Using an Automated Diagnostic Algorithm that Utilizes Electronic Health Records and Natural Language Processing to Define a Population with Cirrhosis
Poster Session
Edward K. Chang, Christine Y. Yu, R Clarke, AD Hackbarth, T Sanders, Eric Esrailian, Daniel W. Hommes, Bruce A. Runyon

Zolpidem confers disease susceptibility to Clostridium difficile infection
Poster Session
S Dann, S Atkhen, C Ross, MEM Tessier, M Loeffelholz, K Koussoulas, JC Bornstein, H Feng, J Versalovic, Charalabos Pothoulakis, KW Garey, T Savidge

TUESDAY, MAY 19

Management of Pancreatic Neuroendocrine Tumors
Meet-the-Professor Luncheons
Joseph R. Pisegna, Jihane Benhammou

Randomized Controlled Trial (RCT) of Doppler Endoscopic Probe (DEP) for Blood Flow Detection in Severe Non-Variceal UGI Hemorrhage (NVUGIH)
Late-Breaking Abstract Session
Dennis M. Jensen, Thomas O. Kovacs, Gordon V. Oning, Kevin A. Ghassemi, GA Machicado, GS Dulai, Alireza Sedarat, Jeffrey R. Lewis, Rome Jutabha, J Gornbein

All-Oral 12-Week Combination Treatment with Daclatasvir (DCV) and Sofosbuvir (SOF) in Treatment-Experienced Patients Infected with HCV Genotype (GT) 3: A Subanalysis of the ALLY-3 Phase 3 Study
Topic Forum
D Nelson, D Bernstein, B Freilich, E Lawitz, T Hawkins, PJ Pockros, PJ Thuluvath, ZH Younes, M Bennett, R Ghalib, PJ Ruane, Myron J. Tong, R Bhole, PD Yin, S Noviello, K Rana

Characteristics and Outcomes of Pancreatic Cystic Neoplasms with Indeterminate CEA Levels Obtained by Endoscopic Ultrasound Guided Fine-Needle Aspiration (EUS-FNA): Results of a Multicenter Study
Topic Forum

Disease-associated enterotypes and metabotypes in families with pediatric inflammatory bowel disease
Combined Research Forum

A Cost-Effectiveness Analysis of LDV/SOF+RBV for 12 Weeks vs. LDV/SOF 24 Weeks vs. SOF+SMV 24 Weeks in CHC GT1 TE Cirrhotic Patients
Research Forum
A Ahmed, DT Dieterich, H Park, Sammy Saab, SC Gordon, ZY Younossi

Colloidal Bismuth Subcitrate (CBS) raises internal pH of Helicobacter pylori by impeding proton import, leading to increased metabolism and increased efficacy of growth dependent antibiotics
Research Forum
Elizabeth A. Marcus, George Sachs, David R. Scott

Gene expression profiles in peripheral blood mononuclear cells (PBMCs) correlate with structural and functional brain networks in chronic visceral pain
Research Forum

Novel ghrelin agonist HM01 reverses postoperative gastric ileus (POGI) by its dual prokinetic and anti-inflammatory actions through activation of vagal cholinergic pathway in rats
Research Forum
Pu-Qing Yuan, Shuping S. Wu, C Pietra, Yvette Taché

Racial and Ethnic Disparities in Colonoscopy Utilization Among Individuals with a Family History of Colorectal Cancer
Research Forum
Christopher V. Almario, Folasade P. May, NA Ponce, B Spiegel

Role of Sex Hormones and Sex Chromosomes in Mechanically-Induced Visceral Hyperalgesia in Mice
Research Forum
Muriel H. Larauche, Mandy Biraud, R Mackie, A Arnold, Yvette Taché

State-of-the-Art: IBS and the CNS
Research Forum
Kirsten Tillisch

Continuous Neonatal Chronic Stress Influences Basal Visceral Sensitivity in a Sex-Dependent Manner in Adult Wistar Rats
Poster Session
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Role of AMPK in the inhibitory effects of metformin and berberine on mTORC1, ERK, DNA synthesis and proliferation in human pancreatic cancer cells
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Safety and Efficacy of Ledipasvir/Sofosbuvir for the Treatment of Genotype 1 Hepatitis C Patients Aged 65 Years or Older: A Retrospective Analysis of Phase 3
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The Use of a Standardized Clinical Assessment and Management Plan to Demonstrate Barriers to Trough Level and Antibody Level Testing in Patients on Anti-Tumor Necrosis Factor Therapy for Inflammatory Bowel Disease
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Neutral FFA3 activation inversely regulates cholinergic secretory function in rat proximal colon
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Izumi Kaji, Yasutada Akiba, Kazuyuki Narimatsu, Jonathan D. Kaunitz

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