FROM THE DIVISION CHIEFS

Going Beyond the Scope

The UCLA Division of Digestive Diseases is dedicated to providing state-of-the-art care for patients with both chronic and acute digestive disorders. But as important as that is, it represents only part of our mission. Beyond providing state-of-the-art care, we are determined to advance the state of the art.

The main ways we do that are through research and innovation, as illustrated in this issue of *Beyond the Scope*. Beginning on page 2, we list the many sessions during which our faculty are presenting at Digestive Disease Week (DDW) 2015 in Washington, DC. This event, the world’s largest gathering of physicians and researchers in the fields of gastroenterology, hepatology, endoscopy and gastrointestinal surgery, offers an opportunity to exchange the latest clinical and laboratory findings – discussions that invariably lead to new ideas and improved approaches to care. We are proud that our faculty are once again playing such a prominent role at this important scientific meeting.

Our Division has a long tradition of groundbreaking research, and on page 6 you can read about three major grants that our physicians and scientists have received to continue to push the state of the art forward. In this era of research-fund austerity, we are proud that our investigators continue to obtain the grants necessary to take advantage of the fast-moving field of biomedical research as they seek to unravel these complex disorders.

We are also pleased to highlight the great honor bestowed on one of our outstanding investigators, Yvette Taché, PhD, who received the 2014 William S. Middleton Award – the highest honor for scientific achievement given to a researcher or clinician by the U.S. Department of Veterans Affairs (see page 1). Dr. Taché, a professor in the UCLA Division of Digestive Diseases since 1982, was the first female recipient of the award since 1960. It is well deserved – she has conducted pioneering work in the field of brain-gut interactions in stress-related gastrointestinal disorders that have paved the way for treatments that can improve countless lives. Dr. Taché is the third UCLA digestive disease researcher to receive this honor, following in the footsteps of George Sachs, DSc, MD (1992) and Neil Kaplowitz, MD (1993).

Finally, in the area of innovation, our Center for Inflammatory Bowel Diseases continues to redefine the way we treat IBD – and, in a broader sense, chronic diseases in general. The center’s novel approach focuses on increasing patient value, in part by being more proactive in educating and monitoring patients – including with the use of a unique Web-based platform and mobile application. On page 4, you can read more about this approach and the critical role that the center’s nurses play in its success.

We hope you enjoy this issue of *Beyond the Scope*, and that we see you at DDW and beyond as we all work toward improving the lives of patients with digestive disorders.
For more than three decades, Yvette Taché, PhD, has been a leader in unraveling the complex brain-gut interactions that occur when stress leads to gastrointestinal disorders, paving the way for new treatments. Now, Dr. Taché’s pioneering work has been recognized with the highest honor for scientific achievement given to a researcher or clinician by the U.S. Department of Veterans Affairs. Dr. Taché, a professor in the UCLA Division of Digestive Diseases since 1982, was named winner of the 2014 William S. Middleton Award, which honors senior Veterans Health Administration investigators who have achieved international acclaim for accomplishments in areas of prime importance to the VA’s research mission. Dr. Taché is the first female recipient of the Middleton Award since 1960.

“As basic scientists, we are always thinking about how our discoveries might be translated into a better understanding of a disease and improved treatments,” says Dr. Taché, associate director of the CURE: Digestive Diseases Research Center at UCLA and co-director of the Center for Neurobiology of Stress & Women’s Health. “To have the VA recognize that this experimental work will have implications on the medical needs of the veteran population is very gratifying.”

Brain-gut interaction was a new field when Dr. Taché arrived at UCLA more than three decades ago, but through their efforts in the laboratory, she and her colleagues contributed to a new understanding of the complex brain-gut interactions that occur when stress leads to gut dysfunction. Dr. Taché’s group was among the first to demonstrate the role of peptides in brain-gut interactions, and her group was the first to establish the importance of corticotropin-releasing factor (CRF) in stress-related gut function alterations – laying the foundation for the current interest in modulating this pathway as potential therapeutic venue for functional diseases such as irritable bowel syndrome.

Dr. Taché’s interest in the mechanisms by which stress contributes to gut dysfunction is rooted in her PhD training at the University of Montreal, where she worked in an internationally renowned neuro-endocrinology laboratory under the mentorship of Dr. Hans Selye, who coined the term “stress” and conducted pioneering research showing its consequences on the body, including the stomach.

“In recent years the study of brain-gut interactions has emerged as an important aspect of gastroenterology research,” Dr. Taché says. “I am hopeful that the recognition through this award will encourage young researchers to continue to build on our findings.”
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Visit Us at Digestive Disease Week 2015
IBS patients show altered brain responses during uncertain, but not certain expectation of painful stimulation of the abdominal wall
Poster Session

Inhibition of ghrelin-O-acyltransferase (GOAT) reduces food intake by increasing satiety in rats
Poster Session

Laparoscopic Resection (LR) is Not Cost-effective Compared to Endoscopic Resection (ER) in the Management of Large Colon Polyps: An Economic Analysis
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Patients with irritable bowel syndrome (IBS) have reduced blood flow in the prefrontal cortex
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Michelle P. Chen, Paul M. Macey, Jennifer S. Labus, Emeran A. Mayer, Kirsten Tillisch

Post-colonoscopy discomfort and adverse events in patients enrolled in randomized, controlled trials comparing air insufflation, water immersion and water exchange – a prospective follow up study
Poster Session
YH Hsieh, Felix W. Leung, CW Tseng

Predictors of unsuccessful endoscopic mucosal resection (EMR) of complex colon polyps (CCPs): Results from a large multicenter US study
Poster Session

Suppression of Appetite and Hepatic Steatosis by High Protein Diet in a Murine Model
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The Preferred Method to Diagnose Small Pancreatic Neuroendocrine Tumors (PNETs) is by Endoscopic Ultrasound-Guided Fine Needle Aspiration Compared to CT-Guided FNA
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Translocation of Enteric Bacteria, Colonic Dysmotility and Altered Behavior in Blast-type Traumatic Brain Injury in Rats
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Vasoactive intestinal peptide (VIP) knockout (KO) mice show reduced daily water intake, and body and fecal water content
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Water exchange colonoscopy reduced sedation requirement without compromising success of cecal intubation in patients accepting the option of on demand sedation in Chinese patients in Hong Kong
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VWY Chu, EH Li, ML Cheung, CKM Ng, SCP Ho, WF Luk, ST Lai, Felix W. Leung

Water exchange colonoscopy, compared to insufflation of air or carbon dioxide and water immersion, enhances the withdrawal detection of adenomas and hyperplastic polyps in the proximal and right colon
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S Cadoni, P Falt, S Sanna, M Argiolas, V Fanari, P Gallitelli, M Liggi, D Mura, L Porcedda, V Smajstrla, M Erriu, Felix W. Leung

Biliary Stents: Who, Which One, How, and How to Minimize Complications
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WM Tierney, Rabindra R. Watson

Emerging Bench-to-Bedside Treatments of Acute Pancreatitis
Meet-the-Investigator Luncheons
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Targeting a microRNA for the therapy of colitis-associated colorectal cancer
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Christos Polytafrou, Daniel W. Hommes, Tiziana Palumbo, Maria Hatziaiostolou, Georgios Koukos, AE van der Meulen - de Jong, Angelos Oikonomopoulos, Wielmoed K. van Deen, Christina Vorvis, Marina Koutsoumpa, Eleini Birli, JM Choi, Lin Chang, Peter Anton, Charalabos Pothoulakis, HW Verspaget, Dimitrios Iliopoulos

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
Plenary Session

Insertion water exchange, compared to insufflation of air or carbon dioxide and water immersion, enhances the withdrawal detection of adenomas and hyperplastic polyps in the proximal and right colon
Topic Forum
S Cadoni, P Falt, S Sanna, M Argiolas, V Fanari, P Gallitelli, M Liggi, D Mura, L Porcedda, V Smajstrla, M Erriu, Felix W. Leung

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Two features that set the UCLA Center for Inflammatory Bowel Diseases (IBD) apart are the accessibility of its healthcare providers for patients who have questions about their care or symptoms, and the proactivity with which the healthcare team educates, monitors and counsels patients. In both cases, the center’s nurses are at the forefront of the successful efforts. The Center for IBD has implemented a new approach to chronic disease management, focused on increasing patient value as measured by the disease control, quality of life and work productivity of patients suffering from Crohn’s disease and ulcerative colitis. To achieve that goal, IBD center nurses communicate regularly with patients not only through in-person visits but also by telephone, a secure email system, and the center’s Web-based platform and mobile application. This more intensive role for the IBD center nurses is integral to the management of a disorder that requires close adherence to and monitoring of medications and their effects, education about diet and lifestyle and the ability to recognize and address adverse symptoms.

“This program was designed to transition from symptom-oriented healthcare toward prevention-oriented healthcare,” says Daniel Hommes, MD, PhD, the center’s director of clinical care and clinical research. “To do that successfully and cost-effectively requires shifting responsibilities so that our nurses have much more one-on-one contact with patients in a role that includes care coordination, education and monitoring. We see this as a model that can succeed well beyond UCLA, as well as for many chronic conditions beyond IBD.”

The center has developed an online platform, now available as a free mobile UCLA eIBD app, that is used to closely follow patients. “We call this a tight-control scenario, and a major part of my role is to monitor patients in this scenario,” explains Laurin Eimers, RN, BSN, an IBD specialist who serves as clinical nurse coordinator. “They do periodic blood work based on their medications and the condition of their disease, and they regularly fill out home-care questionnaires so that we can track trends over time. This allows us to detect and resolve potential problems before they become major issues.”

Eimers notes that patients have participated from the beginning in the development of the app, which includes an e-learning platform, mentor reinforcement, counseling on diet and nutrition and other...
resources – all with an eye toward a more comprehensive view of the patient. “Patients tell us where they need support and teach us how we can best contribute to the control of their disease,” she says. “The communication is extremely important – they value that I go the extra mile in being constantly available to hear their questions and concerns. Traditionally in medicine, we wait for patients to come to us and tell us they aren’t feeling well. This preventive approach means that patients don’t have to go to the clinic as frequently, don’t have as many emergency room visits, and in many cases are able to avoid surgery.”

As a clinical coordinator, Eimers brings in other members of the multidisciplinary team as needed, but to the extent that she is able to respond to many of the patients’ inquiries, she is able to address many issues that would traditionally require additional, potentially unnecessary, outpatient office visits – a major contributor to reducing costs and increasing the value quotient, Dr. Hommes notes.

The nursing role is also prominent in fulfilling the program’s research mission – which in turn is used to improve patient care. Ellen Kane, RN, BS, CCRP, manages the IBD research activities based on protocols initiated by investigators, pharmaceutical companies and others. In that role, Kane is in close contact with patients. “We explain the importance of our program’s research to patients and ask them to participate, and most of them are very happy to do anything that will help advance the management of their disease,” Kane says.

For patients who give their consent, such participation includes providing specimens for the program’s bio-bank, as well as responding to questionnaires designed to glean information that can be studied. Other research initiatives are seeking to identify biomarkers to predict a patient’s response to specific medications, as well as to “reset” the IBD patient’s immune system through a hematopoietic stem cell transplant.

The unusual level of rapport between the IBD center nurses and patients begins with the first visit, when the new patient meets one-on-one with a nurse after being seen by a physician; it continues to pay off as patients’ individual care plans are fine-tuned over time. “When the physician has just gone over a lot of information, it can leave a patient feeling overwhelmed,” says Christina Ha, MD, the center’s associate director for clinical programs.

“After an initial office visit, it makes a big difference to have a nurse reviewing the care plan; providing some basic education about the patient’s disease and aspects of nutrition, wellness and work/life balance; answering any questions; and then being available for follow-up when the patient gets home. As a result of the work that our nurses do, not only is adherence to medication therapy higher, but patients are happier. They feel like they’re being treated as an overall person, not just having their gut treated.”

For the IBD center nurses, going the extra mile is well worth it when they see the results. “We hear from patients who say they are finally comfortable leaving the house because they no longer have to be near a bathroom at all times,” says Eimers. “We have a patient who is finally able to take his son to the park now that his disease is under control, and another who is no longer afraid to walk down the aisle at her wedding. To be able to help them lead better lives is incredibly rewarding.”

This preventive approach means that patients don’t have to go to the clinic as frequently, don’t have as many emergency room visits, and in many cases are able to avoid surgery.
UCLA Division of Digestive Diseases Welcomes New Faculty Member

Melissa A. Munsell, MD | Assistant Clinical Professor of Medicine

Dr. Munsell attended the University of Illinois at Urbana-Champaign where she received her bachelor of science in biology and psychology with a minor in chemistry. She earned her medical degree from the University of Chicago Pritzker School of Medicine and completed her internship and residency in internal medicine with the Osler Medical Service at Johns Hopkins. She continued at Johns Hopkins for gastroenterology fellowship. During fellowship she had an interest in inflammatory bowel diseases and was a visiting fellow at the Cedars-Sinai Inflammatory Bowel Disease Center.

Following her training, Dr. Munsell worked as an attending physician with the Southern California Permanente Medical Group where she practiced general gastroenterology with an interest in inflammatory bowel diseases and motility disorders. She was integral in beginning an inflammatory bowel disease subgroup. She was involved in the interpretation of esophageal motility studies and capsule endoscopy. She is board-certified in internal medicine and gastroenterology.

Grants Continue to Help Fund UCLA Biomedical Research

Never before have the tools of scientific study been so powerful, opening the door to dramatic breakthroughs in our understanding of and ability to treat diseases that have affected countless lives. In an era of reduced federal funding of biomedical research, though, investigators across the country are challenged to find support for these promising efforts. The UCLA Division of Digestive Diseases continues to secure such funding on the strength of our world-class physicians and scientists. Below are the largest grants recently received:

**Project Title: CURE: Digestive Diseases Research Center**
- PI Name: Enrique Rozengurt, DVM, PhD
- Sponsor Agency: NIH-NIDDK
- Project Dates: 2/2/2015-11/30/2019
- Total Dollars: $4,682,275

**Grant Title: MAPP Research Network Second Phase**
- PI Name: Emeran Mayer, MD, PhD
- Dates of Award: 9/15/2014-6/30/2019
- Total Dollars: $3,232,970

**Project Title: Extragustatory Functions of Bitter Taste Receptors**
- PI Name: Catia Sternini, MD
- Sponsor Agency: NIH-NIDDK
- Project Dates: 4/15/2015-3/31/2019
- Total Dollars: $1,386,000
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Reassessment of Ulcer Bleeds with Adherent Clots Using Arterial Blood Flow as a Guide to Definitive Hemostasis

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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 James Sinnett-Smith, Yang Ni, Nora 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 Wolfson, 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, S 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 Gallitto, 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 Agrafiotou, C Tamvakopoulos, Charalabos Pothoulakis, KP Karalis

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 Ultrasound (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 Edmundowicz

Remote monitoring of IBD disease activity using the mobile Health Index (mHI): A validation study

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The trans-golgi network protein aftiphilin 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

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Regional brain morphology is associated with gut microbial metabolites in irritable bowel syndrome (IBS)
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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 Liggi, 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 Pothisoulakis
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 SCN5A Mutations That Result in Decreased NaV1.5 Current and Mechanosensitivity
Research Forum
L Nesbittian, 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
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Andrew D. Ho, NN Jamaluddin, Christina Ha
Active Recruitment Increases Uptake of Endoscopy Among African-American and Asian-American Patients
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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 Coveleskie, 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 Pothisoulakis, Stavroula Baritaki
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The jasmonate analogue 2-hydroxyethyl 5-chloro-4,5-didehydrojasmonate exerts anti-inflammatory effects in colitis
Posters Session
J Chu, Y Lee, Y Yan, M Kim, J 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
Posters Session
Edward K. Chang, Christine Y. Yu, FA Clarke, AD Hackbarth, T Sanders, Eric Esrailian, Danial W. Hommes, Bruce A. Runyon

Zolpidem confers disease susceptibility to Clostridium difficile infection
Posters Session
S Dunn, S Atken, C Ross, MEM Tessier, M Loeffelholz, K Kousoulas, JC Bornstein, HF 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-Varietal UGI Hemorrhage (NVUGIH)
Late-Breaking Abstract Session
Dennis M. Jensen, Thomas O. Kovacs, Gordon V. Ohning, Kevin A. Ghasssemi, 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 Ghailib, PJ Ruane, Myron J. Tong, R Bhore, 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, ZMYounossi

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, N A 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
Muriel H. Larauche, Mandy Biraud, J Molet, Mulugeta Million, Yvette Taché

Dual PI3K/mTOR inhibitors induce rapid over-activation of the MEK/ERK pathway in human pancreatic cancer cells through suppression of mTORC2
Poster Session
Heloisopa Soares, Ming Ming, Steven H. Young, James Sinnett-Smith, Enrique Rozengurt

Endoscopic assessments of inflammatory bowel disease activity by practicing gastroenterologists
Poster Session
NN Jamaluddin, Andrew D. Ho, Christina Ha

Continued on page 11
Integrated care pathways for inflammatory bowel disease Surgery: Design and first analysis
Poster Session
Rutger J. Jacobs, Sarah Reardon, Dipi Sagar, Tijmen J. Hommes, Daniel J. Margolis, Ellen Kane, Welmoed K. van Deen, Laurin Eimers, Elizabeth K. Inserra, Natalie Duran, JM Choi, Christina Ha, Bennett E. Roth, Andrew D. Ho, Eric Esrailian, J Sakc, Daniel W. Hommes

Interference with septin dynamics induces ErbB2 degradation in gastric cancer cells
Poster Session
Elizabeth A. Marcus, Elmira Tokhtaeva, JR Capri, J Whitelegge, David R. Scott, George Sachs, Olga Vagin

Initial experience with a novel EUS-guided core biopsy needle (SharkCore™): A North American multicenter study
Poster Session

Regulation of colon cancer metabolism by a long non-coding RNA
Poster Session
Maria Hatzipostolou, Marina Koutsioumpa, F Kottakis, Daniel W. Hommes, HW Verspaget, Dimitrios Iliopoulos, Christos Polytarchou

Role of AMPK in the inhibitory effects of metformin and berberine on mTORC1, ERK, DNA synthesis and proliferation in human pancreatic cancer cells
Poster Session
Ming Ming, Jia Wang, James Sinnett-Smith, Steven H. Young, Heloisa P. Soares, Enrique Rozenburg

Safety and Efficacy of Ledipasvir/Sofosbuvir for the Treatment of Genotype 1 Hepatitis C in Patients Aged 65 Years or Older: A Retrospective Analysis of Phase 3
Poster Session
Sammy Saab, M Mizokami, OM Oomata, AM Mangia, E Eggleton, S Seyedkazemi, Y Zhu, SJ Knox, P Pang, GM Subramanian, K Kowdley, NH Afdhal

The Effect of Pre-Treatment Stricture on Outcomes after Radiofrequency Ablation (RFA) for Barrett’s Esophagus: Results from the U.S. RFA Registry
Poster Session
S Eluri, N Li, BF Overholt, S Pasricha, CJ Lightdale, T Runge, A Infantolino, WA Wolf, V. Raman Muthusamy, CC Cotton, RE Pruitt, NJ Shaheen

The impact of a value-based health program for inflammatory bowel disease management on healthcare utilization
Poster Session
Welmoed K. van Deen, AB Ozbay, M Skup, Martijn G. van Oijen, Adriana Centeno, Bennett E. Roth, Natalie Duran, Precious Lacey, D Jatulis, MJ Belman, Eric Esrailian, Daniel W. Hommes

Time-driven Activity Based Costing: Measuring the Costs of Implementing Quality Measures in Inflammatory Bowel Disease (IBD)
Poster Session
Andrew D. Ho, Christine Y. Yu, Welmoed K. van Deen, Adriana Centeno, Laurin Eimers, Elizabeth K. Inserra, Natalie Duran, JM Choi, Christina Ha, Bennett E. Roth, Eric Esrailian, Daniel W. Hommes

Undetectable HCV RNA levels at treatment week 4 (TW4) with Sofosbuvir (SOF) and Simeprevir (SMV) for genotype 1 Hepatitis C virus may predict sustained virologic response at 12 weeks after treatment (SVR12): Results from an academic Veterans Healthcare Center
Poster Session
Noam Jacob, JK Kawamoto, PS Belperio, Steven-Huy B. Han, D Bhattacharya, JP Smith, Alan Sheinbaum, Neville R. Pimstone

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
Poster Session
EL Barnes, JS Levine, Vikas Pabby, G Ciociolo, RGhazinouri, JO Greenberg, K Laskowski, SR McLoughlin, D Graham, PA Banks, M Currier, PS de Silva, S Friedman, MJ Hamilton, JR Korzenik, FL Makrauer, B Norton, SB Snapper, M Tomczak, R Burakoff
UCLA Gastroenterology and GI Surgery ranked No. 5 in the nation by *U.S. News & World Report* in its annual survey.