

FRIDAY, MAY 17

WEO Colorectal Cancer (CRC) Screening Committee (SC)

David A. Greenwald

Expert Working Group
Meeting 10:00 am

NCCRT and C5

Westin San Diego (Room
TBD)

SATURDAY, MAY 18

8:45 AM 6DE LONG-TERM OUTCOMES OF IN-UTERO EXPOSURE TO THIOPURINES AND BIOLOGIC AGENTS IN CHILDREN OF IBD MOTHERS

Muhammad B. Hammami¹,
Christopher Martin³,
Sunanda V. Kane⁵, **Marla
Dubinsky⁴**, **Bruce E. Sands⁴**,
William J. Sandborn², Uma
Mahadevan¹

9:00 AM 31BC THE ICON STUDY: INFLAMMATORY BOWEL DISEASE AND RECURRENT CLOSTRIDIUM DIFFICILE INFECTION: OUTCOMES AFTER FECAL MICROBIOTA TRANSPLANTATION

Jessica R. Allegretti¹,
Jonathan Hurtado¹, Madeline
Carrellas¹, Jenna Marcus¹,
Emmalee Phelps², Wing Fei
Wong³, Julian Marchesi⁴,
Benjamin H. Mullish⁴, Julie A.
McDonald⁴, Alexandros
Pechlivanis⁴, Grace F.
Barker⁴, Jesús Miguéns
Blanco⁴, Sashi Sagi²,
Matthew Bohm², Colleen R.
Kelly⁵, Zain Kassam⁶, **Ari
Grinspan⁷**, **Monika Fischer²**

10:30 AM 33ABC HIGHER RESILIENCE IS ASSOCIATED WITH DECREASED DISEASE ACTIVITY, IMPROVED QUALITY OF LIFE AND DECREASED SURGERIES IN INFLAMMATORY BOWEL DISEASE

Priya Sehgal¹, Udit Nangia²,
Carol Foltz³, Brian Iacoviello⁴,
Ryan C. Ungaro⁵, **Marla
Dubinsky⁵**, **Laurie Keefer⁵**

10:33 AM 6AB EUS-GUIDED MICROFORCEPS BIOPSY AND NEEDLE-BASED CONFOCAL LASER ENDOMICROSCOPY SIGNIFICANTLY IMPROVE THE DIAGNOSTIC YIELD AND HAVE MAJOR IMPACT ON CLINICAL MANAGEMENT OF PANCREATIC CYSTIC LESIONS

Antonio R. Cheesman¹,
Hongfa Zhu², **Nikhil A.**

Kumta¹, **Satish Nagula¹**,
Christopher J. DiMaio¹

10:45 AM 20ABCD MANAGEMENT OF PANCREATIC AND BILIARY CANCER

Michelle K. Kim¹

10:45 AM 30 HORMONE THERAPY FOR CANCER IS A RISK FACTOR FOR IBD PROGRESSION

Jordan E. Axelrad¹, Ahmad
Najdat Bazarbashi², James
Zhou³, Amandeep Gujral⁴,
Dylan Sperling⁵, Jason Glass⁶,
Manasi Agrawal⁷, Simon
Hong⁸, Garrett Lawlor⁹,
David Hudesman³, Shannon
Chang¹, Hamed Khalili⁴,
Ashwin Ananthakrishnan⁴,
Jean Frederic Colombel⁵,
Steven Itzkowitz⁵

10:45 AM 32AB STOPPING 5- AMINOSALICYLATES IN CROHN'S DISEASE PATIENTS STARTING BIOLOGIC THERAPY DOES NOT INCREASE THE RISK OF ADVERSE CLINICAL OUTCOMES: ANALYSIS OF TWO NATIONWIDE POPULATION-BASED COHORTS

Ryan C. Ungaro¹, Berkeley
Limketkai², Camilla Bjorn
Jensen³, Clara Yzet⁴, Kristine
Allin³, Manasi Agrawal⁵,

Thomas A. Ullman⁵, Johan M. Burisch³, Tine Jess³, **Jean Frederic Colombel¹**

11:15 AM 8
TIME ALLOWED FOR NATIVE PAPILLA (NP) CANNULATION IS NOT ASSOCIATED WITH ACHIEVING COMPETENCE IN ERCP AMONG ADVANCED ENDOSCOPY TRAINEES (AETS): A POOLED ANALYSIS FROM THE RAPID ASSESSMENT OF TRAINEE ENDOSCOPY SKILLS STUDIES

Anna Duloy¹, Rajesh N. Keswani³, Matt Hall², Gregory A. Cote⁴, Andrew Y. Wang⁹, Eva Aagaard⁸, Linda Carlin¹, **Christopher J. DiMaio¹⁰**, Dayna Early⁵, Steven A. Edmundowicz¹, Swan Ellert¹, Samuel Han¹, Sri Komanduri³, V. Raman Muthusamy⁶, Daniel Mullady⁵, Amit Rastogi⁷, Raj J. Shah¹, Violette C. Simon¹, Sachin B. Wani¹

11:18 AM 6AB
NON-EXPOSURE FULL-THICKNESS RESECTION OF COLONIC LESIONS IN THE U.S: THE FTRD EXPERIENCE

Yervant Ichkhanian¹, Kia Vosoughi¹, Reem Z. Sharaiha², Kaveh Hajifathalian², Jeffrey L. Tokar³, Adam W. Templeton⁴, Theodore W. James⁵, Ian S. Grimm⁵, Meir Mizrahi⁶, Jason B. Samarasena⁷, Nabil E.

Cehade⁷, John Lee⁷, Kenneth J. Chang⁷, Mohammed Barawi⁸, Shayan S. Irani⁹, Shai Friedland¹⁰, Paul Korc¹¹, A. Aziz Aadam¹², Mohammad A. Al-Haddad¹³, Thomas E. Kowalski¹⁴, Aleksey A. Novikov¹⁴, David L. Diehl¹⁵, George Smallfield¹⁶, Gregory G. Ginsberg¹⁷, Veeral Oza¹⁸, Davindebir Pannu¹⁸, Norio Fukami¹⁹, Heiko Pohl²⁰, Michael Lajin²¹, **Nikhil A. Kumta²²**, Shou J. Tang²³, Stuart K. Amateau²⁴, Saowanee Ngamruengphong¹, Vivek Kumbhari¹, Olaya I. Brewer Gutierrez¹, Mouen A. Khashab¹

12:00 PM Halls C-E
HIGH SMOKING CESSATION RATES IN A PHARMACIST-LED CLINIC EMBEDDED IN AN IBD CENTER

Stacy Tse¹, **Bruce E. Sands¹**, **Laurie Keefer¹**, **Benjamin L. Cohen¹**, **Elana Maser¹**, **Ryan C. Ungaro¹**, **James F. Marion¹**, **Jean Frederic Colombel¹**, **Steven Itzkowitz¹**, **Charles Snyder¹**, David Faleck¹, **Marla Dubinsky¹**

12:00 PM Halls C-E
ASSESSMENT OF METAL EXPOSURES IN DECIDUOUS TEETH OF PATIENTS WITH INFLAMMATORY BOWEL DISEASE

Nilendra Nair¹, Christine Austin², Manel Rocha³, Catarina F. Gouveia³, Paul Curtin², Caroline Eisele¹, **Jean Frederic Colombel⁴**, Joana Torres^{3,4}, Inga Peter¹, Manish Arora²

12:00 PM Halls C-E
ENDOSCOPIC AND DEEP REMISSION AT 1 YEAR PREVENTS DISEASE PROGRESSION IN EARLY CROHN'S DISEASE: LONG-TERM DATA FROM CALM

Ryan C. Ungaro¹, Clara Yzet², Peter Bossuyt³, Filip J. Baert⁴, Tomas Vanasek⁵, Geert R. D'Haens⁶, Vincent W. Joustra⁶, Remo Panaccione⁷, Gottfried Novacek⁸, Alessandro Armuzzi⁹, Oleksandr Golovchenko¹⁰, Prymak Olga¹⁰, Adrian Goldis¹¹, Simon P. Travis¹², Xavier Hebuterne¹³, Marc Ferrante¹⁴, Gerhard Rogler¹⁵, Mathurin Fumery², Silvio Danese¹⁶, Grazyna Rydzewska¹⁷, Benjamin Pariente¹⁸, Erik Hertervig¹⁹, Carol Stanciu²⁰, Jean-charles Grimaud²¹, Mircea

Diculescu²², Laurent Peyrin-Biroulet²³, David Laharie²⁴, John P Wright²⁵, Fernando Gomollon²⁶, Irina Gubonina²⁷, Stefan Schreiber²⁸, Satoshi Motoya²⁹, Per M. Hellström³⁰, Jonas Halfvarson³¹, **Jean Frederic Colombel¹**

12:00 PM Halls C-E
CUFFITIS IS ASSOCIATED WITH A SIGNIFICANT RISK OF ILEAL POUCH ANAL ANASTOMOSIS FAILURE

Maia Kayal¹, Marlana Radcliffe², Anam Rizvi², Alexa Riggs¹, Michael Plietz³, Emily Tixier¹, Clara Yzet¹, **Jean Frederic Colombel¹**, **Marla Dubinsky⁴**

12:00 PM Halls C-E
INNATE IMMUNE DYSREGULATION, DETECTABLE UP TO 6 YEARS BEFORE THE DIAGNOSIS OF CROHN'S DISEASE, IS SIGNIFICANTLY AMPLIFIED IN PATIENTS WITH A COMPLICATED PHENOTYPE

Rok Seon Choung¹, Francesca Petralia², Joana Torres^{3,4}, Takahiro Sato⁵, Xiao-jun Li⁶, Pei Wang², Shannon Telesco⁵, Chad K. Porter⁷, Renee Laird⁷, Ramiro Gutierrez⁷, Fred Princen⁶, Scott Plevy⁵, Richard Strauss⁵, Mark S. Riddle⁷, Joseph A. Murray¹, **Jean Frederic Colombel³**

12:00 PM Halls C-E
CROHN'S LIKE DISEASE OF THE ILEAL POUCH ANAL ANASTOMOSIS IN ULCERATIVE COLITIS – INCIDENCE, RISK FACTORS AND OUTCOMES

Maia Kayal¹, Anam Rizvi², Marlana Radcliffe², Alexa Riggs¹, Emily Tixier¹, Parth D. Trivedi¹, Michael Plietz³, **Jean Frederic Colombel¹**, **Marla Dubinsky¹**

12:00 PM Halls C-E
DELAYED DIAGNOSIS OF CROHN'S DISEASE IS COMMON AND ASSOCIATED WITH AN INCREASED RISK OF DISEASE COMPLICATIONS

Zane Gallinger¹, Robert Sandler², Wenli Chen², **Jean Frederic Colombel¹**, **Ryan C. Ungaro¹**

12:00 PM Halls C-E
DISABILITY IN PATIENTS WITH ILEAL POUCH ANAL ANASTOMOSIS

Maia Kayal¹, **Ryan C. Ungaro¹**, Alexa Riggs¹, Kanika Kamal¹, Manasi Agrawal³, Shirley Cohen-Mekelburg⁴, Jordan E. Axelrad⁵, Brad Tricomi⁶, Adam S. Faye⁷, Ellen Scherl⁸, Garrett Lawlor⁷, Dana J. Lukin⁸, **Jean Frederic Colombel¹**, **Marla Dubinsky²**

12:00 PM Halls C-E
EFFECTS OF INTRAVENOUS VEDOLIZUMAB ON HEALTH-RELATED QUALITY OF LIFE AND WORK PRODUCTIVITY IN PATIENTS WITH CROHN'S DISEASE: RESULTS FROM THE PHASE 3B VERSIFY TRIAL

Silvio Danese¹, Shashi Adsul², Dirk Lindner², Stephen Jones³, Haridarshan Patel⁴, **Jean Frederic Colombel⁵**

12:00 PM Halls C-E
ELEVATED HEMOGLOBIN A1C IS ASSOCIATED WITH PANCREATIC CYSTS IN A HIGH-RISK PANCREATIC SURVEILLANCE PROGRAM

Ariel Bar-Mashiah¹, **Anne Aronson¹**, **Monica Naparst¹**, **Christopher J. DiMaio¹**, **Aimee L. Lucas¹**

12:00 PM Hall H
SUTURING AND CLOSURES HANDS-ON WORKSHOP

Nikhil A. Kumta¹, Prashant Kedia², Allison R. Schulman³, Vivek Kumbhari⁴, Nitin Kumar⁵, Michael C. Larsen⁶, Neil Gupta⁷, A. Aziz Aadam⁸, Pichamol Jirapinyo⁹, Austin L. Chiang¹⁰

12:00 PM Halls C-E
**PERORAL ENDOSCOPIC
MYOTOMY AROUND THE
WORLD: A DECADE OF
EXPERIENCE**

*Michel Kahaleh¹, Amy Tyberg¹, Carlos Robles-Medranda², Hannah P. Lukashok², Juan I. Olmos², Roberto Oleas², Fernando Casasrodriguez³, Mario Rey³, Iman Andalib¹, Resheed Alkhiari¹, Maria G. Porfilio⁴, Mine C. Carames⁵, Juan C. Carames⁵, Ana L. Madrigal Méndez⁶, Marlon Rojas Alvarado⁶, Haroon M. Shahid¹, Avik Sarkar¹, Monica Gaidhane¹, **Nikhil A. Kumta⁷**, Prashant Kedia⁸, Paul R. Tarnasky⁸, Elizabeth S. John⁸, Bryce Bushe⁸, Rebekah E. Dixon⁷, **Habeeb Salameh⁷**, Jeremy Nussbaum⁷, Nikolas P. Eleftheriadis¹¹, Galileu F. Farias¹⁰, Diogo T. de Moura¹⁰, Eduardo G. de Moura¹⁰, Guido Costamagna⁹, Pietro Familiari⁹*

12 PM Halls C-E
**MEDICATION PRESCRIPTION
PATTERNS IN ULCERATIVE
COLITIS IN A UNITED STATES
COMMUNITY-BASED
INCEPTION COHORT**

Ryan C. Ungaro¹**, Liangyuan Hu¹, Meaghan M. Mallette³, Samir A. Shah³, Jason M. Shapiro², **Bruce E. Sands¹

12:00 PM Halls C-E
**A MULTI-PROTEIN SERUM
TEST PREDICTS MUCOSAL
HEALING IN CHILDREN WITH
ILEOCOLONIC CROHN'S
DISEASE**

*David Ziring¹, Namita Singh², Yogesh Arora¹, Kelly D. Hester³, Larry Mimms³, Anjali Jain³, **Marla Dubinsky⁴**, Shervin Rabizadeh¹*

12:00 PM Halls C-E
**MEASURING THE
MEDIATING EFFECTS OF
TOFACITINIB ON HEALTH
STATUS IN ULCERATIVE
COLITIS: DATA FROM THE
OCTAVE PROGRAM**

***Marla Dubinsky²**, Andrew G. Bushmakina¹, Marco D. DiBonaventura¹, Joseph C. Cappelleri¹, Leonardo Salese¹, Eric S. Maller¹, Alessandro Armuzzi³*

12:00 PM Halls C-E
**MEASURING THE
MEDIATING EFFECTS OF
MAYO SCORE COMPONENTS
FOR TOFACITINIB ON
DISEASE-SPECIFIC QUALITY
OF LIFE IN ULCERATIVE
COLITIS: DATA FROM THE
OCTAVE PROGRAM**

***Marla Dubinsky²**, Andrew G. Bushmakina¹, Marco D. DiBonaventura¹, Joseph C. Cappelleri¹, Leonardo Salese¹,*

Eric S. Maller¹, Alessandro Armuzzi³

12:00 PM Halls C-E
**DOSE ESCALATION WITH
ORIGINATOR INFlixIMAB IS
MORE COMMON THAN
STANDARD DOSING IN
PEDIATRIC IBD – THE
DEVELOP EXPERIENCE**

*Anne M. Griffiths¹, Johanna C. Escher², James L. Izanec³, Christopher Busse⁴, Yanli Wang⁵, **Marla Dubinsky⁶***

12:00 PM Halls C-E
**GENERAL HEALTH STATUS IN
PATIENTS WITH MODERATE
TO SEVERE ULCERATIVE
COLITIS RECEIVING
USTEKINUMAB: RESULTS
FROM THE PHASE 3 UNIFI
INDUCTION AND
MAINTENANCE STUDIES**

*Silvio Danese¹, **Bruce E. Sands²**, Rupert W. Leong³, Hongyan Zhang⁴, Jewel Johanns⁴, Philippe Szapary⁴, Colleen W. Marano⁴, Chenglong Han⁵*

12:00 PM Halls C-E
**USTEKINUMAB THERAPY
INDUCED CLINICALLY
MEANINGFUL
IMPROVEMENT AND
REMISSION AS MEASURED
BY THE INFLAMMATORY
BOWEL DISEASE
QUESTIONNAIRE IN
PATIENTS WITH MODERATE
TO SEVERE ULCERATIVE
COLITIS: RESULTS FROM THE
PHASE 3 UNIFI INDUCTION
AND MAINTENANCE
STUDIES**

Bruce E. Sands¹, Chenglong Han², Hongyan Zhang³, Jewel Johans³, Philippe Szapary³, Colleen W. Marano³, Rupert W. Leong⁴, Silvio Danese⁵

12:00 PM Halls C-E
**NOVEL DELIVERY CARE
MODEL TO SCREEN AND
IDENTIFY NAFLD IN
PRIMARY CARE CLINIC**

Michael Ma², Christine J. Chen², Rifat Mamun³, Joseph A. Constantino², Daniel Pang⁴, Ilan Weisberg³, Amreen Dinani¹

12:00 PM Halls C-E
**ALCOHOLIC CIRRHOSIS IS
ASSOCIATED WITH HIGHER
IN-HOSPITAL MORTALITY
COMPARED TO NON-
ALCOHOLIC CIRRHOSIS**

Xiaowen Fan¹, Melissa Hershman², Ilan Weisberg²

12:00 PM Halls C-E
**WIDE AREA
TRANSEPITHELIAL
SAMPLING IMPROVES
DETECTION OF INTESTINAL
METAPLASIA AND
DYSPLASIA FOLLOWING
ENDOSCOPIC ABLATION OF
BARRETT'S ESOPHAGUS**

Michael S. Smith¹, Vivek Kaul², Robert Odze³

2:00 PM Halls C-E
**NON-CALCULOUS BENIGN
CHOLANGITIS IS MORE
LIKELY TO BE READMITTED
COMPARED TO CALCULOUS
CHOLANGITIS**

Xiaowen Fan¹, Jean Abed¹, Xin Zheng², Michael S. Smith¹

2:48 PM 28AB
**TECHNICAL SUCCESS IS THE
SOLE PREDICTOR OF
SUCCESSFUL ENDOSCOPIC
CLOSURE OF POST-
SURGICAL
GASTROINTESTINAL LEAKS:
A MULTICENTER NORTH
AMERICAN COHORT**

Antonio R. Cheesman¹, Habeeb Salameh¹, GAURAV KAKKED¹, Rebekah E. Dixon¹, Daniel J. Stein², Tyler M. Berzin², Prashant Kedia³, Jose Nieto⁴, Abdulhameed M. Al-Sabban⁵, Kristen Koller⁵, Vivek Kumbhari⁵, Christopher J. DiMaio¹, Satish Nagula¹, Nikhil A. Kumta¹

3:00 PM 6DE
**FACTORS ASSOCIATED WITH
SUCCESSFUL ENDOSCOPIC
CLOSURE OF IATROGENIC
GASTROINTESTINAL TRACT
PERFORATIONS: A
MULTICENTER NORTH
AMERICAN COHORT**

Habeeb Salameh¹, Antonio R. Cheesman¹, GAURAV KAKKED¹, Rebekah E. Dixon¹, Stephen Hasak², Jason G. Bill², Daniel Mullady², Vladimir Kushnir², Amit K. Agarwal³, Aleksey A. Novikov³, Thomas E. Kowalski³, David E. Loren³, Jose Nieto⁴, Petros C. Benias⁵, Arvind J. Trindade⁵, Prashant Kedia⁷, Daniel J. Stein⁸, Tyler M. Berzin⁸, Demetrios Tzimas⁹, Christopher J. DiMaio¹, David A. Greenwald¹, Satish Nagula¹, Jerome D. Waye¹, Nikhil A. Kumta¹

4:15 PM 30
**COLLEGE ADJUSTMENT IN
IBD STUDENTS: AGE AT
DIAGNOSIS AFFECTS THE
COLLEGE EXPERIENCE**

Angela K. Pham¹, Naeen A. Chaudhry¹, Andrew T. Flint¹, Anna Dang¹, Isaac L. Molina¹, Molly McGetrick¹, Qian Li², Yi Guo², Genie Beasley⁵, Irene Estores⁶, Laurie Keefer³, Marla Dubinsky⁴, Ellen M. Zimmermann¹



THE DR. HENRY D. JANOWITZ DIVISION OF GASTROENTEROLOGY
DIGESTIVE DISEASE WEEK® 2019
San Diego Convention Center
Mount Sinai Booth #2614

5:06 PM 5
OPEN IT UP - BENIGN
STRICTURE DILATION

Satish Nagula

SUNDAY, MAY 19

8:18 AM 28E
**ESOPHAGEAL
HYPERVIGILANCE AND
SYMPTOM ANXIETY ARE
PREVALENT ACROSS
GASTROESOPHAGEAL
REFLUX DISEASE
PHENOTYPES**

*Livia Guadagnoli¹, Rena H.
Yadlapati², Tiffany Taft¹,
Michael Y. Tye³, John E.
Pandolfino¹, Laurie Keefer⁴*

9:50 AM 20ABCD
**THE CURRENT LANDSCAPE
OF BIOSIMILARS IN IBD**

Marla Dubinsky¹

10:00 AM 31A
**STRATEGIES TO DEVELOP
RESILIENCE AND "FALL UP"**

Laurie Keefer¹

10:00 AM 7
**CANNULATION TIPS AND
TRICKS**

Christopher J. DiMaio

10:15 AM 30
**DEVELOPMENT AND
VALIDATION OF A CLINICAL
SCORING TOOL FOR
PREDICTING TREATMENT
OUTCOMES WITH
VEDOLIZUMAB IN PATIENTS
WITH ULCERATIVE COLITIS**

*Parambir S. Dulai¹, Siddharth
Singh¹, Niels Vande
Castele¹, Joseph Meserve¹,
Adam C. Winters², Shreya
Chablaney², Satimai
Aniwan¹², Preeti Shashi¹¹,
Gursimran Kochhar¹¹, Aaron
Weiss³, Jenna Koliiani-Pace¹⁰,
Youran Gao⁴, Brigid S.
Boland¹, John T. Chang¹,
David Faleck², **Robert
Hirten², Ryan C. Ungaro²,**
Dana Lukin³, Sultan Keith⁴,
**David Hudesman⁵, Shannon
Chang⁵, Matthew Bohm⁶,**
**Sashidhar Varma⁶, Monika
Fischer⁶, Eugenia Shmidt⁷,**
**Arun Swaminath⁸, Nitin
Gupta⁹, Maria Rosario¹³,**
**Vipul Jairath¹⁴, Leonardo
Guizzetti¹⁵, Brian G.
Feagan¹⁴, Corey A. Siegel¹⁰,**
**Bo Shen¹¹, Sunanda V.
Kane¹², Edward V. Loftus¹²,**
**William J. Sandborn¹, Bruce
E. Sands², Jean Frederic
Colombel², Karen Lasch¹³,**
Charlie Cao¹³*

10:30 AM 30
**VEDOLIZUMAB TARGETS
LYMPHOID AGGREGATES IN
THE GASTROINTESTINAL
TRACT OF PATIENTS WITH
INFLAMMATORY BOWEL
DISEASE, REFLECTED BY A
DRAMATIC DROP IN GUT-
HOMING PLASMA BLASTS IN
CIRCULATION**

*Mathieu Uzzan¹, Akihiro
Seki¹, Fiona Raso², Huaibin
M. Ko³, Glaucia C. Furtado⁴,
**Ryan C. Ungaro¹, Benjamin
L. Cohen¹, Anupa Chokola⁵,**
**Minami Tokuyama¹, Harpriya
Singh¹, Jennifer Lui¹, Jean
Lim⁵, Sergio A. Lira⁴, Andrea
Reboldi², Jean Frederic
Colombel¹, Saurabh
Mehandru¹***

11:07 AM 31BC
**WHICH WAY TO GO?
REACTIVE VS PROACTIVE
THERAPEUTIC DRUG
MONITORING IN IBD**

Marla Dubinsky¹

12:00 pm Halls C-E
**REINVENTING
INFLAMMATORY BOWEL
DISEASE (IBD) CLINICAL
TRIAL RECRUITMENT USING
NOVEL DIGITAL MEDICINE
TOOLS**

*Ashish Atreja¹, Emamuzo
Otobo¹, Shashank Garg¹,
Sarthak Kakkar¹, Jason
Rogers¹, Farah Fasihuddin¹*

12:00 pm Halls C-E
**HOME INFUSION OF
BIOLOGIC MEDICATIONS IN
PATIENTS WITH
INFLAMMATORY BOWEL
DISEASE IS ASSOCIATED
WITH HIGHER RISK OF
ADVERSE OUTCOMES THAN
HOSPITAL-BASED INFUSION:
A CASE-CONTROL STUDY**

Marc Fenster¹, Ryan C. Ungaro², Robert Hirten², Zane Gallinger^{2,3}, Louis Cohen², Ashish Atreja², Saurabh Mehandru², Jean Frederic Colombel², Benjamin L. Cohen²

12:00 PM Halls C-E
**WHOLE-GENOME
SEQUENCING OF AFRICAN
AMERICANS IDENTIFIES
NOVEL RARE VARIANTS
ASSOCIATED WITH
INFLAMMATORY BOWEL
DISEASE**

*Hari K. Somineni¹, Talin Haritunians⁴, Claire L. Simpson⁵, David J. Cutler², David Okou¹, Yuval Itan³, Suresh Venkateswaran¹, Christine Stevens⁶, Lisa W. Datta⁷, Tanvi A. Dhere⁸, Mark Lazarev⁷, Emory African American IBD Consortium¹⁰, Michael E. Zwick², **Judy H. Cho³**, Mark J. Daly⁶, Dermot McGovern⁴, Steven R. Brant⁹, Subra Kugathasan^{1,2}*

12:00 PM Halls C-E
**B2 STRICTURING BEHAVIOR
ASSOCIATED WITH TGF AND
STROMAL CELL SURVIVAL
PROTEINS IN THE
PREOPERATIVE PERIOD**

*Ruby Greywoode¹, Margaret Walshe³, Cristian A. Hernandez Rocha³, Yashoda Sharma², Jason Reinglas¹⁰, Jean Donet¹¹, Jennifer Yeh¹¹, Jordan Elman¹², Katie A. Falloon¹¹, Sondra Birch⁸, Dermot McGovern⁴, Steven R. Brant¹, John D. Rioux⁵, Richard H. Duerr⁶, Mark S. Silverberg⁹, Mark Lazarev⁷, L. Philip Schumm⁸, **Judy H. Cho***

12:00 PM Halls C-E
**COMPARATIVE SAFETY AND
EFFECTIVENESS OF TUMOR
NECROSIS FACTOR ALPHA
ANTAGONISTS AND
VEDOLIZUMAB IN OLDER
IBD PATIENTS: A
MULTICENTER STUDY**

*Tomer Adar¹, David Faleck², Saranya Sasidharan¹, Kelly C. Cushing¹, Nienke Z. Borren¹, Niharika Nalagatla¹, **Ryan C. Ungaro²**, Wayne A. Sy², Samuel C. Owen³, Anish Patel³, **Benjamin L. Cohen²**, Ashwin Ananthakrishnan¹*

12:00 PM Halls C-E
**ENDOSCOPIC ULTRASOUND
GUIDED BILIARY DRAINAGE
IN BENIGN BILIARY
PATHOLOGY WITH NORMAL
FOREGUT ANATOMY - A
MULTICENTER STUDY**

*Jason G. Bill¹, John T. Maple³, Marvin Ryou⁴, **Christopher J. DiMaio²**, Gabriel Lang¹, Koushik K. Das¹, Natalie D. Cosgrove¹, **Habeeb Salameh²**, Nikhil A. Kumta², Hassaan Zia³, Kelly Hathorn⁴, Jordan Orr⁵, Patrick Yachimski⁵, Daniel Mullady¹, Vladimir Kushnir¹*

12:00 PM Halls C-E
**EUS-GUIDED BILIARY
DRAINAGE FOR PRIMARY
PALLIATION OF MALIGNANT
BILIARY OBSTRUCTION.**

*Guarav Kakked, **Habeeb Salameh²**, Antonio R. Cheesman², Nikhil A. Kumta², Satish Nagula², **Christopher J. DiMaio²***

12:00 PM Halls C-E

OUTCOMES OF ENDOSCOPIC SUBMUCOSAL DISSECTION VERSUS SURGERY IN EARLY GASTRIC CANCER MEETING STANDARD AND EXPANDED INDICATIONS: A MULTICENTER NORTH AMERICAN COHORT

Tossapol Kerdsirichairat¹, Rui Wang¹, Hiroyuki Aihara², Peter V. Draganov³, **Nikhil A. Kumta**⁴, Yutaka Tomizawa⁵, Camtu D. Truong⁶, Simon K. Lo⁷, Laith H. Jamil⁷, Srinivas Gaddam⁷, Miguel Burch⁸, Deepti Dhall⁹, Yaseen B. Perbtani³, Dennis Yang³, Michael J. Bartel¹⁰, Neha Goel¹¹, Sanjay S. Reddy¹¹, Jeffrey M. Farma¹¹, Yulan Gong¹², Lorenzo E. Ferri¹³, Alex Chen¹⁴, Michael Chen¹⁴, Yen-I Chen¹⁴, Amrita Sethi¹⁵, Nadia Ansari¹⁵, Garrick Trapp¹⁶, Beth Schrope¹⁶, Armando Del Portillo¹⁷, Rabia DeLatour¹⁸, Kenneth H. Park^{7, 18}, Lauren G. Khanna¹⁸, Marcovalerio Melis¹⁹, Elliot Newman¹⁹, Ioannis Hatzaras¹⁹, Theodore W. James²⁰, Ian S. Grimm²⁰, John M. DeWitt²¹, Amanda B. Siegel²², A. Aziz Adam²², Andrew Y. Wang²³, Robert Bechara²⁴, Seiichiro Abe²⁵, Louis M. Wong Kee Song²⁶, Olaya I. Brewer Gutierrez¹, Elizabeth Montgomery²⁷, Fabian M. Johnston²⁸, Mark D. Duncan²⁸, Marcia I. Canto¹, Anne Marie Lennon¹, Yuri Hanada^{1, 26}, Joo Ha

Hwang²⁹, Shai Friedland²⁹, Saowanee Ngamruengphong¹

12:00 PM Halls C-E

VEDOLIZUMAB USE IS NOT ASSOCIATED WITH INCREASED MALIGNANCY INCIDENCE: GEMINI LONG-TERM SAFETY STUDY RESULTS AND POST-MARKETING DATA

Timothy Card¹, **Ryan C. Ungaro**², Fatima Bhayat³, Aimee Blake³, Gary Hantsbarger³, Simon P. Travis⁴

12:00 PM Halls C-E

EFFICACY AND SAFETY OF ENDOSCOPIC ULTRASOUND-GUIDED LIVER BIOPSIES IN PARENCHYMAL LIVER DISEASES: A SYSTEMATIC REVIEW AND META-ANALYSIS

Anup Shah¹, Isabel Guerrido Martinez¹, Nelson Valentin¹, Melissa Hershman², Kelsey Collins¹, Shmuel Golfeyz¹, **Ilan Weisberg**²

12:00 PM Halls C-E

EFTR, STER AND LAPAROSCOPIC ASSISTED RESECTION OF SUBMUCOSAL LESIONS OF THE UPPER GI TRACT: WHAT HAVE WE LEARNED?

Michel Kahaleh¹, Vicky Bhagat¹, Peter Dellatore¹, Amy Tyberg¹, Avik Sarkar¹, Haroon M. Shahid¹, Iman Andalib¹, Resheed Alkhiari¹, Monica Gaidhane¹, Prashant Kedia², Jose Nieto⁶, **Nikhil A. Kumta**⁷, **Rebekah E. Dixon**⁷, **Habeeb Salameh**⁷, Georgios Mavrogenis³, Seiichiro Abe⁵, Flavio H. Morita⁴, Paulo Sakai⁴, Eduardo G. de Moura⁴

12:00 PM Halls C-E

SAFETY AND EFFICACY OF ENDOSCOPIC SUBMUCOSAL DISSECTION FOR NEOPLASTIC LESIONS IN THE RECTUM: A MULTICENTER NORTH AMERICAN EXPERIENCE

Dennis Yang¹, Hiroyuki Aihara², Andrew Y. Wang³, A. Aziz Adam⁴, Nikola S. Natov³, Amanda B. Siegel⁴, MirMilad Pourmousavi Khoshknab⁵, Mouen A. Khashab⁵, Saowanee Ngamruengphong⁵, Harshit S. Khara⁶, David L. Diehl⁶, Thibaut Maniere⁷, Sherif A. Andrawes⁸, Petros C. Benias⁸, **Nikhil A. Kumta**⁹, Fariha H. Ramay¹⁰, Raymond E. Kim¹⁰, Benjamin Tharian¹¹, Sumant Inamdar¹¹, Michael Nosler¹², Yutaka Tomizawa¹³, Joo Ha Hwang¹³, Abdalaziz Tabash¹⁴, Mohamed O. Othman¹⁴, Peter V. Draganov¹

2:00 PM 29A
PSYCHOGASTROENTEROLOG
Y: STRATEGIES FOR THE
GASTROENTEROLOGIST

Laurie Keefer

3:06 PM 7
SUCCESSING WHEN OTHERS
FAIL: NAVIGATING THE
INCOMPLETE
COLONOSCOPY

David A. Greenwald

4:15 PM 4
INTERNATIONAL
MULTICENTER STUDY ON
THE MANAGEMENT OF
PATIENTS AFTER FAILED
PERORAL ENDOSCOPIC
MYOTOMY (POEM)

*Daniella Assis¹, Olaya I. Brewer Gutierrez¹, Joshua A. Sloan¹, Eduardo Albeniz², Kia Vosoughi¹, JOO YOUNG CHO³, Yervant Ichkhanian¹, Peter V. Draganov⁴, Yaseen B. Perbtani⁴, Pietro Familiari⁵, Juliana Yang¹, Maximilien Barret⁶, Thomas Runge¹, Mathieu Pioche⁷, Alireza Sedarat⁸, Jeffrey M. Marks⁹, Megan Sippey⁹, Jad P. AbiMansour¹, Michael Ujiki¹⁰, Bailey Su¹¹, Robert Bechara¹², Marcel Tantau¹³, Mehul Patel¹⁴, Vic Velanovich¹⁵, Nasim Parsa¹⁶, Aryn Haji¹⁴, **Nikhil A. Kumta¹⁷**, Amol Bapaye¹⁸, Sravan K. Korrapati¹⁸, Rishabh Jain¹⁸, Mohamad H. El Zein¹, Mohamad Aghaie*

Meybodi¹, Nikolas P. Eleftheriadis¹⁹, Mouen A. Khashab¹

4:48 PM 20BCD
ANTI-TUMOR NECROSIS
FACTOR THERAPY IS NOT
ASSOCIATED WITH POST-
OPERATIVE INFECTION:
RESULTS FROM
PROSPECTIVE COHORT OF
ULCERATIVE COLITIS AND
CROHN'S DISEASE PATIENTS
UNDERGOING SURGERY TO
IDENTIFY RISK FACTORS FOR
POST-OPERATIVE INFECTION
I (PUCCINI)

*Benjamin L. Cohen¹, Phillip Fleshner², Sunanda V. Kane³, Hans H. Herfarth⁴, Nicole Palekar⁵, Francis A. Farraye⁶, Jonathan A. Leighton⁷, Jeffrey Katz⁸, Russell D. Cohen⁹, Mark E. Gerich¹⁰, Raymond K. Cross¹¹, Peter D. Higgins¹², Andrew Tinsley¹³, Sarah C. Glover¹⁴, Corey A. Siegel¹⁵, Jaime L. Bohl¹⁶, Heba Iskandar¹⁷, Samantha Raymond¹⁸, Ruiqi Huang¹⁸, Mayte Suarez-Farinas¹⁸, **Bruce E. Sands¹***

5:16 PM 20BCD
VEDOLIZUMAB SHOWS
SUPERIOR EFFICACY VERSUS
ADALIMUMAB: RESULTS OF
VARSITY—THE FIRST HEAD-
TO-HEAD STUDY OF
BIOLOGIC THERAPY FOR
MODERATE-TO-SEVERE
ULCERATIVE COLITIS

***Bruce E. Sands¹**, Laurent Peyrin-Biroulet², Edward V. Loftus³, Silvio Danese⁴, **Jean Frederic Colombel¹**, Brihad Abhyankar⁷, Jingjing Chen⁵, Raquel Rogers⁵, Richard A. Lirio⁵, Jeffrey D. Bornstein⁵, Stefan Schreiber⁶*

MONDAY, MAY 20

9:00 AM 7
PROPHYLACTIC ENDOSCOPIC CLOSURE DOES NOT REDUCE ADVERSE EVENTS FOLLOWING ENDOSCOPIC SUBMUCOSAL DISSECTION: A CASE-MATCHED MULTICENTER STUDY

Amit Mehta¹, Saowanee Ngamruengphong⁹, Kaveh Hajifathalian¹, Shawn L. Shah¹, Enad Dawod¹, Lorenzo E. Ferri², Hiroyuki Aihara³, Louis M. Wong Kee Song⁴, Yuri Hanada⁴, **Nikhil A. Kumta**⁵, A. Aziz Adam⁶, Amanda B. Siegel⁶, Theodore W. James⁷, Ian S. Grimm⁷, Aleksey A. Novikov⁸, Vivek Kumbhari⁹, Yutaka Tomizawa¹⁰, Daniel von Renteln¹¹, Robert Bechara¹², Joo Ha Hwang¹³, Shai Friedland¹³, Anthony N. Kalloo⁹, Jose Nieto¹⁴, Mohamed O. Othman¹⁵, Kartik Sampath¹, SriHari Mahadev¹, Saurabh Mukewar¹, David L. Carr-Locke¹, Mouen A. Khashab⁹, Reem Z. Sharaiha¹

10:00 AM 26AB
QUALITATIVE DERIVATION AND QUANTITATIVE PREDICTION OF DYPLASIA IN INTRADUCTAL PAPILLARY MUCINOUS NEOPLASMS USING EUS-GUIDED NEEDLE-BASED CONFOCAL LASER ENDOMICROSCOPY

Somashekar G. Krishna¹, John M. DeWitt², **Christopher J. DiMaio**³, Pradermchai Kongkam⁴, Bertrand Napoleon⁵, Mohamed O. Othman⁶, Damien Meng Yew Tan⁷, Sebastian G. Strobel¹, Peter P. Stanich¹, Anand Patel¹, Anjuli Luthra¹, Megan Q. Chan¹, Alecia Blaszcak¹, Dana Lee¹, Kyle Porter^{1,8}, Phil A. Hart¹, Zobeida Cruz-Monserrate¹, Darwin L. Conwell¹

10:30 AM 20A
MEDICAL MANAGEMENT OF FISTULIZING CROHN'S DISEASE

Benjamin L. Cohen¹

10:30 AM 4
ENDOSCOPIC SUBMUCOSAL DISSECTION FOR GASTRIC NEOPLASIA: A LARGE MULTICENTER STUDY FROM NORTH AMERICA

Saowanee Ngamruengphong¹, Lorenzo E. Ferri², Hiroyuki Aihara³, Peter V. Draganov⁴, Dennis

Yang⁴, Yaseen B. Perbtani⁴, Yuri Hanada⁵, Louis M. Wong Kee Song⁵, **Nikhil A. Kumta**⁶, Mohamed O. Othman⁷, Michael O. Mercado⁷, Huma Javaid⁷, A. Aziz Adam⁸, Amanda B. Siegel⁸, Theodore W. James⁹, Ian S. Grimm⁹, John M. DeWitt²¹, Aleksey A. Novikov¹⁰, Alexander Schlachterman¹⁰, Thomas E. Kowalski¹⁰, Jason B. Samarasena¹⁵, Rintaro Hashimoto¹⁵, Nabil E. Chehade¹⁵, John Lee¹⁵, Kenneth J. Chang¹⁵, Bailey Su¹¹, Alex Chen², Michael Chen², Yen-I Chen², Michael Ujiki¹², Amit Mehta¹³, Reem Z. Sharaiha¹³, David L. Carr-Locke¹³, Vivek Kumbhari¹, Mouen A. Khashab¹, MirMilad Pourmousavi Khoshknab¹, Rui Wang^{1,14}, Tossapol Kerdsirichairat¹, Yutaka Tomizawa¹⁶, Daniel von Renteln¹⁷, Robert Bechara¹⁸, Neej J. Patel²², Norio Fukami²², Monika Lazkowska²³, Amrita Sethi²³, Andrew Y. Wang¹⁹, Joo Ha Hwang²⁰, Shai Friedland²⁰, Anthony N. Kalloo¹

12:00 pm Halls C-E
IMPACT OF AUTOMATED DIGITAL NAVIGATION PROGRAM ON BOWEL PREPARATION QUALITY AND PATIENT SATISFACTION FOR COLONOSCOPY: A COMPARATIVE STUDY

Sarthak Kakkar¹, Rajanshu Verma², Hallie Jara², Shashank Garg¹, Andy Pfau³,

*Cera Jaffe³, Shrawan Patel³,
Virender Sharma², Ashish
Atreja¹*

12:00 PM Halls C-E
**CAN CROHN'S PATIENTS BE
ACCURATELY PHENOTYPED
BASED ON OPERATIVE AND
PATHOLOGY REVIEW AT
TIME OF ILEAL RESECTION?**

*Jason Reinglas¹, Jean A.
Donet⁵, Jordan Elman³, Katie
A. Falloon⁵, Ruby
Greywoode⁹, Cristian A.
Hernandez Rocha², Margaret
Walsh², Jennifer Yeh⁵,
Yashoda Sharma³, Dermot
McGovern⁴, Steven R. Brant⁵,
John D. Rioux⁶, Richard H.
Duerr⁷, **Judy H. Cho³**, Mark S.
Silverberg^{2,10}, Sondra Birch⁵,
L. Philip Schumm⁸, Mark
Lazarev⁵*

12:00 PM Halls C-E
**ENDOSCOPIC POUCH
ACTIVITY IN
ASYMPTOMATIC PATIENTS
WITH AN ILEAL POUCH ANAL
ANASTOMOSIS IS
ASSOCIATED WITH AN
INCREASED RISK OF FUTURE
POUCHITIS**

***Maia Kayal¹**, Marlana
Radcliffe², Anam Rizvi²,
Michael Plietz³, Clara Yzet¹,
**Robert Hirten¹, Benjamin L.
Cohen¹, Jean Frederic
Colombel¹, Marla Dubinsky⁴,
Ryan C. Ungaro¹***

12:00 PM Halls C-E
**INFLAMMATORY
MICROHETEROGENEITY IN
UC: IMPLICATIONS FOR
MICROSCOPIC ASSESSMENT
OF DISEASE ACTIVITY**

*Samuel Ballentine¹, Huaibin
M. Ko¹, **Jean Frederic
Colombel², Bruce E. Sands²,
Noam Harpaz¹***

12:00 PM Halls C-E
**A SIMPLE SCORING TOOL
PREDICTS EXPOSURE-
RESPONSE RELATIONSHIP,
ONSET OF ACTION,
RESPONSE TO INTERVAL
SHORTENING, AND
SURGICAL RISK WITH
VEDOLIZUMAB THERAPY
FOR CROHN'S DISEASE**

*Parambir S. Dulai¹, Aurelien
Amiot², Laurent Peyrin-
Biroulet³, Siddharth Singh¹,
Mélanie Serrero⁴, Vipul
Jairath⁵, Jerome Filippi⁶,
Benjamin Pariente⁷, Edward
V. Loftus⁸, Xavier Roblin⁹,
Sunanda V. Kane⁸, Anthony
Buisson¹⁰, Corey A. Siegel¹¹,
Yoram Bouhnik¹², William J.
Sandborn¹, Karen Lasch¹³,
Maria Rosario¹³, Brian G.
Feagan⁵, Daniela Bojic¹⁴,
Caroline Trang¹⁵, Bo Shen¹⁶,
Romain Altwegg¹⁷, **Bruce E.
Sands¹⁸, Jean Frederic
Colombel¹⁸, Franck
Carbonnel¹⁹, Matthew
Bohm²⁰, David Hudesman²¹,
Anne Bourrier²², Dana Lukin²³***

12:00 PM Halls C-E
**LONG-TERM FATE OF THE
EXCLUDED RECTUM IN
CROHN'S DISEASE**

*Clara Yzet¹, Gasan Kassim²,
Nilendra Nair², **Jean Frederic
Colombel², David B. Sachar²***

12:00 PM Halls C-E
**CONCOMITANT STEROID
THERAPY WITH ANTI-TNF
THERAPY IS NOT MORE
EFFECTIVE THAN ANTI-TNF
MONOTHERAPY IN
INDUCING REMISSION IN
CROHN'S DISEASE: A
SYSTEMATIC REVIEW AND
POOLED META-ANALYSIS OF
PLACEBO-CONTROLLED
TRIALS**

*David Faleck^{1,2}, Eugenia
Shmidt^{4,2}, Ruiqi Huang², Leah
Katta², Neeraj Narula³,
Rachel Pinotti², Mayte
Suarez-Farinas², **Jean
Frederic Colombel²***

12:00 PM Halls C-E
**IMPACT OF A CITYWIDE
BENCHMARKING
INTERVENTION ON
COLONOSCOPY QUALITY
METRICS**

Eugenia Uche-Anya¹, Jennifer J. Brown², Charles Asumeng², Jared Striplin², Mari Carlesimo², Marian S. Krauskopf², David A. Greenwald³, Brett Bernstein³, Steven Itzkowitz³, Felice Schnoll-Sussman⁴, Benjamin Lebwohl¹

12:00 PM Halls C-E
**HYDROGEN PEROXIDE
LAVAGE IN ENDOSCOPIC
NECROSECTOMY: A
MULTICENTER SURVEY OF
TECHNIQUES**

Ahmed A. Messallam¹, Douglas G. Adler², Georgios I. Papachristou³, Christopher J. DiMaio⁷, B. Joseph Elmunzer⁴, Raj J. Shah⁵, Daniel Mullady⁶, Koushik K. Das⁶, Natalie Cosgrove⁶, Field F. Willingham¹

12:00 PM Halls C-E
**CLOSTRIDIUM DIFFICILE OF
THE ILEAL POUCH ANAL
ANASTOMOSIS – INCIDENCE,
RISK FACTORS, AND
OUTCOMES**

Maia Kayal¹, Emily Tixier¹, Alexa Riggs¹, Anam Rizvi², Marlana Radcliffe², Clara Yzet¹, Michael Plietz³, Marla Dubinsky⁴, Ari Grinspan¹

12:00 PM Halls C-E
**FECAL MICROBIOTA
TRANSPLANT DECREASES
MORTALITY IN PATIENTS
WITH SEVERE AND
FULMINANT CLOSTRIDIUM
DIFFICILE INFECTION**

Emily Tixier², Elijah Verheyen¹, Ari Grinspan², Ryan C. Ungaro²

12:00 PM Halls C-E
**THE IMPACT OF A TAILORED
INTERVENTION ON
COLORECTAL CANCER
SCREENING IN AN
UNDERSERVED POPULATION**

Akash Kumar¹, Ruby Greywoode¹, Aiya Aboubakr¹, Lina Jandorf^{3,4}, Matthew Beyrouy², Hillary Porter², Kwame Kitson², Neil Calman², Steven Itzkowitz¹

12:00 PM Halls C-E
**CLOSTRIDIUM DIFFICILE OF
THE ILEAL POUCH ANAL
ANASTOMOSIS – INCIDENCE,
RISK FACTORS, AND
OUTCOMES**

Maia Kayal¹, Emily Tixier¹, Alexa Riggs¹, Anam Rizvi², Marlana Radcliffe², Clara Yzet¹, Michael Plietz³, Marla Dubinsky⁴, Ari Grinspan¹

12:00 PM Halls C-E
**PREGNANT WOMEN WITH
IBD HAVE WORSE
OBSTETRIC AND MATERNAL
OUTCOMES THAN NON-IBD
PATIENTS WITH STATIC
RATES OF CHANGE FROM
2005-2014 IN THE UNITED
STATES: A NATIONWIDE
INPATIENT SAMPLE STUDY**

Priti Poojary², Aparna Saha³, Meghan Stuart¹, Elizabeth A. Spencer⁴, Marla Dubinsky⁴, Ryan C. Ungaro¹, Benjamin L. Cohen¹

12:00 PM Halls C-E
**EFFECT OF UPADACITINIB
ON EXTRA-INTESTINAL
MANIFESTATIONS IN
PATIENTS WITH MODERATE
TO SEVERE CROHN'S
DISEASE: DATA FROM THE
CELEST STUDY**

Laurent Peyrin-Biroulet¹, Silvio Danese², Edouard Louis³, Peter D. Higgins⁴

Marla Dubinsky⁵, Fabio Cataldi⁶, Qian Zhou⁶, Wan-Ju Lee⁶, Kristina Kligys⁶

12:30 PM 28E
INTERVENTIONAL EUS FOR BILIARY AND GALLBLADDER PATHOLOGY

Christopher J. DiMaio¹, Michael J. Levy²

2:05 PM 24ABC
STANDARDIZING THE CARE OF ACUTE SEVERE ULCERATIVE COLITIS INPATIENTS AT AN INFLAMMATORY BOWEL DISEASE REFERRAL HOSPITAL

Charles Snyder¹, William Berk², Nicholas Genes², **Brijen J. Shah¹**, **Marla Dubinsky¹**

2:15 PM 20A
PRE-OPERATIVE BIOLOGICS SIGNIFICANTLY REDUCE POST-OPERATIVE LEAKS AFTER STAGED RESTORATIVE PROCTOCOLECTOMY

Anam Rizvi², **Maia Kayal¹**, Michael Plietz¹, Haley Zylberberg¹, Marlana Radcliffe¹, Clara Yzet¹, Sergey Khaitov¹, Alexander Greenstein¹, Patricia Sylla¹, **Marla Dubinsky¹**

2:15 PM 6C
NON-EXPOSURE FULL-THICKNESS RESECTION OF COLONIC LESIONS IN THE U.S: THE FTRD EXPERIENCE

Yervant Ichkhanian¹, Kia Vosoughi¹, Reem Z. Sharaiha², Kaveh Hajifathalian², Jeffrey L. Tokar³, Adam W. Templeton⁴, Theodore W. James⁵, Ian S. Grimm⁵, Meir Mizrahi⁶, Jason B. Samarasena⁷, Nabil E. Chehade⁷, John Lee⁷, Kenneth J. Chang⁷, Mohammed Barawi⁸, Shayan S. Irani⁹, Shai Friedland¹⁰, Paul Korc¹¹, A. Aziz Aadam¹², Mohammad A. Al-Haddad¹³, Thomas E. Kowalski¹⁴, Aleksey A. Novikov¹⁴, David L. Diehl¹⁵, George Smallfield¹⁶, Gregory G. Ginsberg¹⁷, Veeral Oza¹⁸, Davindebir Pannu¹⁸, Norio Fukami¹⁹, Heiko Pohl²⁰, Michael Lajin²¹, **Nikhil A. Kumta²²**, Shou J. Tang²³, Stuart K. Amateau²⁴, Saowanee Ngamruengphong¹, Vivek Kumbhari¹, Olaya I. Brewer Gutierrez¹, Mouen A. Khashab¹

2:30 PM 20A
A PROMINENT ROLE FOR CHEMOKINES, IN PARTICULAR CXCL9, AS BIOMARKERS ASSOCIATED WITH POST-OPERATIVE CROHN'S DISEASE RECURRENCE

Margaret Walshe¹, Cristian Hernandez-Rocha¹, Yashoda Sharma², Dermot McGovern³, Steven R. Brant⁴, John D. Rioux⁵, Richard H. Duerr⁶, Mark Lazarev⁹, **Judy H. Cho²**, L. Philip Schumm⁷, Mark S. Silverberg^{1, 8}

2:45 PM 11A
DISTINCT CHARACTERISTICS OF HEPATOCELLULAR CARCINOMA IN WOMEN: RESULTS FROM A LARGE, MULTICENTER STUDY IN THE UNITED STATES

Meaghan Phipps², **Alexandra Livanos¹**, Averill Guo², Sydney Pomenti², Jonathan Yeh³, Lara Dakhoul⁵, Heather Burney⁴, Carla Kettler⁴, Hao Liu⁴, Ethan D. Miller⁶, Samer Gawrieh⁵, Andrew S. DeLemos⁷, Andrew Scanga⁸, Naga P. Chalasani⁵, Julia Wattacheril^{9, 3}

2:45 PM 6C
AN INTERNATIONAL STUDY ON THE USE OF PER-ORAL ENDOSCOPIC MYOTOMY (POEM) IN THE MANAGEMENT OF ZENKER'S DIVERTICULUM (ZD)

Juliana Yang¹, Stephanie M. Novak², Michael Ujiki², Oscar V. Hernández Mondragón³, Pankaj N. Desai⁴, Petros C. Benias⁵, David Lee⁶, Kenneth J. Chang⁶, Bertrand Brieau⁷, Maximilien Barret⁷, **Nikhil A. Kumta⁸**, Xianhui Zeng⁹, Bing

Hu⁹, Konstantinos Delis¹⁰, Kia Vosoughi¹, Olaya I. Brewer Gutierrez¹, Yervant Ichkhanian¹, Saowanee Ngamruengphong¹, Anthony N. Kalloo¹, Vivek Kumbhari¹, Mouen A. Khashab¹

4:00 PM 27AB
EPIGENETIC FEATURES OF IBD RISK, PHENOTYPE, AND BEHAVIOR

Judy H. Cho¹

4:00 PM 20A
REAL-WORLD EFFECTIVENESS OF TOFACITINIB IN ULCERATIVE COLITIS; A MULTI-CENTER STUDY

Anish Patel¹, Marc Fenster², Geoffrey Bader¹, Christina Dimopoulos², Parakkal Deepak⁴, **Ryan C. Ungaro³**, Matthew A. Ciorba⁴, Andres J. Yarur⁵, **Robert Hirten³**, George P. Christophi⁴, Aava Khatiwada⁴, Bixuan Lin⁵, **Jean Frederic Colombel³**, Christina Ha⁶, **Benjamin L. Cohen³**, Joel R. Pekow⁷, Poonam M. Beniwal-Patel⁵, Gaurav Syal⁶

4:15 PM 20A
REAL-WORLD SAFETY OF TOFACITINIB IN INFLAMMATORY BOWEL DISEASES: A MULTI-CENTER STUDY

Parakkal Deepak¹, Aava Khatiwada¹, George P.

Christophi¹, Andres J. Yarur³, Bixuan Lin³, Matthew A. Ciorba¹, **Ryan C. Ungaro²**, Marc Fenster², Christina Dimopoulos², Anish Patel⁴, Geoffrey Bader⁴, Gaurav Syal⁵, **Robert Hirten²**, **Jean Frederic Colombel²**, Christina Ha⁵, Roni Weissshof⁶, Joel R. Pekow⁶, **Benjamin L. Cohen²**, Poonam M. Beniwal-Patel³

4:30 PM 25ABC
SUMMARY: DIETARY SUPPLEMENTS AND FUNCTIONAL FOODS

Gerard Mullin, Joshua Novak

5:05 PM 25ABC
SUMMARY: EARLY RECOGNITION AND INTERVENTION FOR MALNUTRITION

Gerard Mullin¹, Joshua Novak²

TUESDAY, MAY 21

8:30 AM 20BCD
EFFICACY AND SAFETY OF
USTEKINUMAB AS
MAINTENANCE THERAPY IN
ULCERATIVE COLITIS: WEEK
44 RESULTS FROM UNIFI

Bruce E. Sands¹, William J. Sandborn², Remo Panaccione³, Christopher D. O'Brien⁴, Hongyan Zhang⁴, Jewel Johanns⁴, Laurent Peyrin-Biroulet⁵, Gert A. Van Assche⁶, Silvio Danese⁷, Stephan R. Targan⁸, Maria T. Abreu⁹, Tadakazu Hisamatsu¹⁰, Philippe Szapary⁴, Colleen W. Marano⁴

8:45 AM 20BCD
EFFICACY IN BIOLOGIC-
FAILURE AND
NONBIOLOGIC-FAILURE
POPULATIONS IN A PHASE 3
STUDY OF USTEKINUMAB IN
MODERATE-SEVERE
ULCERATIVE COLITIS: UNIFI

Bruce E. Sands¹, Laurent Peyrin-Biroulet², Colleen W. Marano³, Christopher D. O'Brien³, Hongyan Zhang³, Jewel Johanns³, Philippe Szapary³, David Rowbotham⁴, Rupert W. Leong⁵, Ramesh Arasaradnam⁶, Silvio Danese⁷, Gert A. Van Assche⁸, Stephan R. Targan⁹, William J. Sandborn¹⁰

9:00 AM 20BCD
LONG-TERM SAFETY OF
VEDOLIZUMAB IN
ULCERATIVE COLITIS AND
CROHN'S DISEASE: FINAL
RESULTS FROM THE GEMINI
LTS STUDY

Edward V. Loftus¹, **Jean Frederic Colombel²**, Brian G. Feagan³, William J. Sandborn⁴, **Bruce E. Sands²**, Silvio Danese⁵, Geert R. D'Haens⁶, Remo Panaccione⁷, David T. Rubin⁸, Ira Shafran⁹, Andrejus Parfionovas¹⁰, Raquel Rogers¹⁰, Richard A. Lirio¹⁰, Severine Vermeire¹¹

10:00 AM 20BCD
EFFICACY AND SAFETY OF
MIRIKIZUMAB (LY3074828)
IN A PHASE 2 STUDY OF
PATIENTS WITH CROHN'S
DISEASE

Bruce E. Sands², William J. Sandborn³, Laurent Peyrin-Biroulet⁴, Peter D. Higgins⁵, Fumihito Hirai⁶, Ruth Belin¹, Elisa Gomez Valderas¹, Debra Miller¹, MaryAnn Morgan-Cox¹, April N. Naegeli¹, Paul Pollack¹, Jay Tuttle¹, Toshifumi Hibi⁷

11:15 AM 20BCD
CHAIR'S SUMMARY:
EMERGING THERAPIES -
WHERE DOES THE FUTURE
LIE?

Marla Dubinsky

12:00 PM Halls C-E
IDENTIFICATION OF RISK
FACTORS ASSOCIATED WITH
LOSS OF RESPONSE TO
USTEKINUMAB IN CROHN'S
DISEASE

Stephen B. Hanauer¹, **Bruce E. Sands²**, Brian G. Feagan³, Alessandra Oortwijn⁴, Roger van Kruchten⁴, Victor A. Laliman⁵, James L. Izanec⁶, Omoniyi J. Adedokun⁷, Long-Long Gao⁷, Sheldon Sloan⁶, Christopher Gasink⁶, Stephan R. Targan⁸, Willem J. de Villiers⁹, Paul Rutgeerts¹⁰, **Jean Frederic Colombel²**, Subrata Ghosh¹¹

12:00 PM Halls C-E
ASSOCIATION OF
USTEKINUMAB SERUM
CONCENTRATIONS AND
PERIANAL FISTULA
RESOLUTION IN THE
CROHN'S DISEASE UNITI
PROGRAM

Bruce E. Sands¹, Brian C. Kramer², Christopher Gasink², Douglas Jacobstein³, Long-Long Gao², Tony Ma³, Omoniyi J. Adedokun³, **Jean Frederic Colombel¹**, David A. Schwartz⁴

12:00 PM Halls C-E
CHARACTERIZATION OF
PATIENTS WITH DELAYED
RESPONSE TO
USTEKINUMAB FOR
CROHN'S DISEASE

*Bruce E. Sands¹, Alessandra Oortwijn², Nicole Rijnders², James L. Izanec³, Christopher Gasink³, Douglas Jacobstein⁴, Omoniyi J. Adedokun⁴, Tony Ma⁴, Long-Long Gao⁴, **Jean Frederic Colombel¹**, Stephan R. Targan⁵, Subrata Ghosh⁶, William J. Sandborn⁷*

12:00 PM Halls C-E
TARGETED RELEASE ORAL CYCLOSPORINE (ST-0529) AS A POTENTIAL NEW THERAPY FOR ULCERATIVE COLITIS: PHASE I STUDY RESULTS

***Jean Frederic Colombel²**, Jesse Hall¹, Monica Rosa¹, Bernard F. McDonald¹*

12:00 PM Halls C-E
SAFETY AND TOLERABILITY OF BT-11, A GUT-RESTRICTED LANCL2 AGONIST, IN A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE I STUDY IN NORMAL HEALTHY VOLUNTEERS

*Andrew Leber¹, Raquel Hontecillas¹, Victoria Zoccoli-Rodriguez¹, **Jean Frederic Colombel²**, Jyoti Chauhan¹, Josep Bassaganya-Riera¹*

12:00 PM Halls C-E
WHAT ARE THE MOST CHALLENGING ASPECTS OF IBD? - AN INTERNATIONAL SURVEY OF GASTROENTEROLOGISTS

COMPARING WESTERN AND NON-WESTERN COUNTRIES

*Richard B. Gearry¹, Andrew McCombie¹, Morten H. Vatn², David T. Rubin³, Flavio Steinwurz⁴, Edward V. Loftus⁵, Wolfgang Kruis⁶, Curt Tysk⁷, **Jean Frederic Colombel⁸**, Siew C. Ng⁹, Gert A. Van Assche¹⁰, Charles N. Bernstein¹¹*

12:00 PM Halls C-E
IMPROVED SURVIVAL WITH EUS FOR ALL STAGES OF PANCREATIC CANCER: A PROPENSITY SCORE ANALYSIS

Sheila D. Rustgi¹**, Sunil Amin², Anthony Yang¹, **Nikhil A. Kumta¹**, **Satish Nagula¹**, **Michelle K. Kim¹**, **Christopher J. DiMaio¹**, **Aimee L. Lucas¹

12:00 PM Halls C-E
ENDOSCOPIC VACUUM-ASSISTED CLOSURE OF UPPER GASTROINTESTINAL DEFECTS: A MULTI CENTER EXPERIENCE

*Harold E. Paredes¹, Jennifer Liu-Burdowski¹, Eduardo Quintero¹, Lionel D'Souza¹, Jonathan M. Buscaglia¹, **Habeeb Salameh²**, **Nikhil A. Kumta²**, **Christopher J. DiMaio²**, **Satish Nagula²**, Juan Carlos Bucobo¹*

12:00 PM Halls C-E
ESOPHAGEAL HYPERVIGILANCE AND VISCERAL ANXIETY ARE MAJOR CONTRIBUTORS TO DYSPHAGIA SEVERITY AMONG PATIENTS UNDERGOING EVALUATION WITH HIGH-RESOLUTION ESOPHAGEAL MANOMETRY

*Dustin Carlson¹, C. Prakash Gyawali², Sabine Roman³, Marcelo F. Vela⁴, Michael D. Crowell⁴, Karthik Ravi⁵, Tiffany Taft¹, Joseph Triggs¹, Farhan Quader², Jacqueline Prescott¹, Francois Mion³, Dario Biasutto³, **Laurie Keefer⁶**, Peter J. Kahrilas¹, John E. Pandolfino¹*

12:00 PM Halls C-E
WHAT IS COGNITIVE IN/FLEXIBILITY IN IRRITABLE BOWEL SYNDROME? A QUALITATIVE ANALYSIS OF CLINICIANS' PERSPECTIVES

*Alyse R. Bedell^{2,1}, Livia Guadagnoli¹, Meredith Craven¹, Tiffany Taft¹, **Laurie Keefer^{3,1}***

12:00 PM Halls C-E
ATTENTIONAL BIAS IN PEDIATRIC INFLAMMATORY BOWEL DISEASE

*Barbara Storch¹, **Laurie Keefer²**, Laura Reigada¹*

12:00 PM Halls C-E
**PREVALENCE OF GENE
MUTATIONS IN PATIENTS AT
INCREASED RISK OF
PANCREATIC CANCER:
IMPACT OF MULTI-GENE
PANEL TESTING**

*Huili Zhu¹, Sara Welinsky²,
Emily Soper², Noura S. Abul-
Husn², Aimee L. Lucas²*

12:00 PM Halls C-E
**IMPROVEMENT IN PATIENT-
REPORTED INFLAMMATORY
BOWEL DISEASE
QUESTIONNAIRE
OUTCOMES, AND
RELATIONSHIP WITH
DISEASE ACTIVITY, IN
TOFACITINIB-TREATED
PATIENTS WITH ULCERATIVE
COLITIS: DATA FROM THE
OCTAVE CLINICAL TRIALS**

*Marla Dubinsky¹, Brian
Bressler², Alessandro
Armuzzi³, Leonardo Salese⁴,
Marco D. DiBonaventura⁵,
Eric S. Maller⁴, Haiyun Fan⁴,
Deborah A Woodworth⁴,
Chinyu Su*

12:00 PM Halls C-E
**REDUCTION IN
INFLAMMATORY
BIOMARKERS IN A PHASE 2
STUDY OF MIRIKIZUMAB IN
THE TREATMENT OF
PATIENTS WITH
MODERATELY-TO-SEVERELY
ACTIVE ULCERATIVE COLITIS**

*William J. Sandborn², Bruce
E. Sands³, Taku*

*Kobayashi⁴, Jay Tuttle¹,
Jochen Schmitz¹, Michael
Durante¹, Richard E. Higgs¹,
James Canavan¹, Robert
Siegel¹, Marc Ferrante⁵*

12:00 PM Halls C-E
**TOFACITINIB FOR THE
TREATMENT OF ULCERATIVE
COLITIS: UP TO 5.4 YEARS OF
SAFETY DATA FROM GLOBAL
CLINICAL TRIALS**

*William J. Sandborn¹, Julian
Panes², Remo Panaccione³,
Geert R. D'Haens⁴, Bruce E.
Sands⁵, Chinyu Su⁶, Michele
Moscariello⁶, Thomas V.
Jones⁶, Ronald D. Pedersen⁶,
Gary S. Friedman⁶, Nervin
Lawendy⁶, Gary Chan⁶*

12:00 PM Halls C-E
**IMMUNOGENICITY OF
USTEKINUMAB IN PATIENTS
WITH CROHN'S DISEASE:
RESULTS FROM THE IM-
UNITI STUDY**

*William J. Sandborn¹, Bruce
E. Sands², Jeannette
Nussbaum³, Alessandra
Oortwijn⁴, Christopher
Gasink³, Douglas Jacobstein⁵,
Long-Long Gao⁵, Omoniyi J.
Adedokun⁵, Willem J. de
Villiers⁶, Subrata Ghosh⁷*

12:00 PM Halls C-E
**IMMUNOGENICITY OF
USTEKINUMAB IN PATIENTS
WITH CROHN'S DISEASE:
RESULTS FROM THE IM-
UNITI STUDY**

*William J. Sandborn¹, Bruce
E. Sands², Jeannette
Nussbaum³, Alessandra
Oortwijn⁴, Christopher
Gasink³, Douglas Jacobstein⁵,
Long-Long Gao⁵, Omoniyi J.
Adedokun⁵, Willem J. de
Villiers⁶, Subrata Ghosh⁷*

12:00 PM Halls C-E
**ASSOCIATION OF
USTEKINUMAB SERUM
CONCENTRATIONS AND
PERIANAL FISTULA
RESOLUTION IN THE
CROHN'S DISEASE UNITI
PROGRAM**

*Bruce E. Sands¹, Brian C.
Kramer², Christopher
Gasink², Douglas Jacobstein³,
Long-Long Gao², Tony Ma³,
Omoniyi J. Adedokun³, Jean
Frederic Colombel¹, David A.
Schwartz⁴*

12:00 PM Halls C-E
**EFFECT OF VEDOLIZUMAB
ON SURGICAL RATES IN IBD:
POST HOC ANALYSIS FROM
THE GEMINI TRIALS**

*Brian G. Feagan¹, Bruce E.
Sands², Richard A. Lirio³,
Trevor Lissos³, Jiaju Wang³,
Ding Feng³, Karen Lasch³*

12:00 PM Halls C-E
EFFICACY AND SAFETY OF
USTEKINUMAB THROUGH
WEEK 16 IN PATIENTS WITH
MODERATE TO SEVERE
ULCERATIVE COLITIS
RANDOMIZED TO
USTEKINUMAB: RESULTS
FROM THE UNIFI
INDUCTION TRIAL

Silvio Danese¹, Bruce E. Sands², Christopher D. O'Brien³, Hongyan Zhang³, Jewel Johans³, Sheldon Sloan³, James L. Izanec⁴, Philippe Szapary³, Colleen W. Marano³, Rupert W. Leong⁵, David Rowbotham⁶, Stephan R. Targan⁷, Gert A. Van Assche⁸

12:00 PM Halls C-E
SUSTAINED REMISSION IN
PATIENTS WITH MODERATE
TO SEVERE ULCERATIVE
COLITIS: RESULTS FROM THE
PHASE 3 UNIFI
MAINTENANCE STUDY

Gert A. Van Assche¹, Stephan R. Targan², Thomas Baker³, Christopher D. O'Brien³, Hongyan Zhang³, Jewel Johans³, Philippe Szapary³, Colleen W. Marano³, Rupert W. Leong⁴, -Biroulet⁹ David Rowbotham⁵, Tadakazu Hisamatsu⁶, Silvio Danese⁷, Bruce E. Sands⁸, Laurent Peyrin

12:00 PM Halls C-E
PHARMACOKINETICS AND
EXPOSURE-RESPONSE
RELATIONSHIPS OF
INTRAVENOUSLY
ADMINISTERED
USTEKINUMAB DURING
INDUCTION TREATMENT IN
PATIENTS WITH ULCERATIVE
COLITIS: RESULTS FROM THE
UNIFI INDUCTION STUDY

Omoniyi J. Adedokun¹, Zhenhua Xu¹, Colleen W. Marano¹, Christopher D. O'Brien¹, Philippe Szapary¹, Hongyan Zhang¹, Jewel Johans¹, Rupert W. Leong², Tadakazu Hisamatsu³, Gert A. Van Assche⁴, Silvio Danese⁵, Maria T. Abreu⁶, Bruce E. Sands⁷, William J. Sandborn⁸

12:00 PM Halls C-E
READMISSIONS IN
HOSPITALIZED PATIENTS
WITH AUTOIMMUNE
HEPATITIS IN NATIONWIDE
INPATIENT SETTING

Xiaowen Fan¹, Melissa Hershman², Ilan Weisberg²

12:00 PM Halls C-E
HIGH RESOLUTION
ESOPHAGEAL MANOMETRY
RESULTS AFFECT
MANAGEMENT IN A
MAJORITY OF PATIENTS
WITH REPORTED
REFRACTORY REFLUX

Il Joon Paik², Xiaocen Zhang¹, Jean Abed², Xiaowen Fan², Elijah Verheyen², Gassan Kassim¹, Michael S. Smith²

12:00 PM Halls C-E
PERFORMING MORE THAN
TEN SWALLOWS DURING
HIGH RESOLUTION
ESOPHAGEAL MANOMETRY
DOES NOT IDENTIFY
SUBSTANTIALLY MORE
CASES OF INEFFECTIVE
ESOPHAGEAL MOTILITY

Xiaocen Zhang¹, Elijah Verheyen¹, Jean Abed¹, Xiaowen Fan¹, Michael S. Smith¹, Il Joon Paik¹

12:00 PM Halls C-E
FACTORS ASSOCIATED WITH
SURGICAL INTERVENTION
FOLLOWING ENDOSCOPIC
CLOSURE ATTEMPT OF
IATROGENIC
GASTROINTESTINAL TRACT
PERFORATIONS: A
MULTICENTER NORTH
AMERICAN COHORT

Habeeb Salameh¹, Antonio R. Cheesman¹, GAURAV KAKKED¹, Rebekah E. Dixon¹

Stephen Hasak², Jason G. Bill², Daniel Mullady², Vladimir Kushnir², Amit K. Agarwal³, Aleksey A. Novikov³, Thomas E. Kowalski³, David E. Loren³, Jose Nieto⁴, Petros C. Benias⁵, Arvind J. Trindade⁵, Prashant Kedia⁷, Daniel J. Stein⁸, Tyler M. Berzin⁸, Demetrios Tzimas⁹, **Christopher J. DiMaio¹**, **David A. Greenwald¹**, **Satish Nagula¹**, **Jerome D. Waye¹**, **Nikhil A. Kumta¹**

12:00 PM Halls C-E
LONG-TERM EFFICACY OF TOFACITINIB IN PATIENTS WHO RECEIVED EXTENDED INDUCTION THERAPY: RESULTS OF THE OCTAVE OPEN STUDY FOR TOFACITINIB DELAYED RESPONDERS

David T. Rubin¹, **Marla Dubinsky²**, Milan Lukas³, Daniel Quirk⁴, Chudy I. Nduaka⁴, Eric S. Maller⁴, Nervin Lawendy⁴, Cem Kayhan⁴, Haiyun Fan⁴, Deborah A Woodworth⁴, Gary Chan⁴, Chinyu Su⁴

2:30 PM 2
EUS-GUIDED MICROFORCEPS BIOPSY AND NEEDLE-BASED CONFOCAL LASER ENDOMICROSCOPY SIGNIFICANTLY IMPROVE

THE DIAGNOSTIC YIELD AND HAVE MAJOR IMPACT ON CLINICAL MANAGEMENT OF PANCREATIC CYSTIC LESIONS

Antonio R. Cheesman¹, Hongfa Zhu², **Nikhil A. Kumta¹**, **Satish Nagula¹**, **Christopher J. DiMaio¹**

4:15 PM 31A
INTELLIGENT REAL-TIME IMAGE SEGMENTATION (IRIS) IMPROVES REVIEW TIME OF VOLUMETRIC LASER ENDOMICROSCOPY (VLE) IMAGES WHILE MAINTAINING ACCURACY OF NEOPLASIA DETECTION

Michael S. Smith¹
