

November 6th, 2024

**Opening Ceremony
&
Plenary Session**

**“Bridging Science to Solutions: Decoding food-microbiota-DGBI
interplay”**

room 208-211 (13.00-16.00)

- | | |
|---|--------------------|
| • Immune dysregulation in IBS | Guy Boecxstaens |
| • Food and gut-brain axis | Linda Nguyen |
| • Gut microbiota in IBS in different parts of the world | Max Schmulson |
| • GERD overlapping with DGBI: Good or Bad? | Sutep Gonlachanvit |
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Plenary Symposium

room 208-209 (16.30-18.00)

- | | |
|---|-----------------|
| • The inflammatory puzzle in functional dyspepsia | Hiroto Miwa |
| • Overlapping functional dyspepsia and DGBI:
A tactical approach | Jan Tack |
| • New paths for functional dyspepsia management | William D. Chey |
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Sponsored symposium

(by Reckitt Benckiser)

Ways to trim down PPI treatment for GERD?

Room 208 (18.00 - 19.15)

- | | |
|---|--------------------|
| • The journey of NERD and mild reflux esophagitis: signs
of over PPI use | William D. Chey |
| • NERD and mild reflux esophagitis management guide:
Non-systemic meds and alginate's role | Jan Tack |
| • Discovering a balanced approach: Tactics to reduce PPI
dependency in managing GERD | Sutep Gonlachanvit |
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WELCOME RECEPTION

foyer

(19.30-20.30)

November 7th, 2024

room 208

8.00-9.40

LEAKY GUT IN DGBI

Andrew Chua

Madhusudan Grover

- The basic scientist view
- Novel methodologies for measurement of intestinal permeability
- Intestinal barrier dysfunction and functional dyspepsia
- OP005: Early gut barrier alterations in the A53T transgenic mouse model of Parkinson's disease
- OP049: Inter-relationship between different pathological mechanisms in functional dyspepsia: Insights from systematic clustering and correlation analysis

Nathalie Vergnolle

Madhusudan Grover

Tadayuki Oshima

Myat Noe Han

Zhanye Zhang

10.00-11.40

THE ENS AT OPPOSITE ENDS OF THE AGING SPECTRUM

Faranak Fattahi

Subhash Kulkarni

- The early life period
- Postnatal ENS maturation and regulation
- Linking ENS maturation and aging through a newly identified developmental lineage of enteric neurons
- OP003: Gut amyloid- β impairs enteric nervous system and causes gastro-intestinal dysfunctions in Alzheimer's disease model
- OP009: RSP01-LGR receptor signaling – a fork stuck in the road to enteric neurogenesis
- OP011: Correlating cellular distribution with neuromuscular function in Hirschsprung disease

Julia Ganz

Robert O Heuckeroth

Subhash Kulkarni

Brossaud Rodrigue

Melanie Scharr

Narges Sadat Mahdavian

November 7th, 2024

room 208

13.00-14.40

ROLE OF GLIAL CELLS IN GUT FUNCTIONS

Luisa Seguella

Marlene M. Hao

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- | | |
|--|------------------|
| • Barrier functions | Meenakshi Rao |
| • Glia as modulators of gut motility and sensory functions | Brian Gulbransen |
| • Glia and gut microbes | Luisa Seguella |
| • OP013: C1qa Muscularis Macrophages regulate synaptic dynamics | Mario D'Ambrosio |
| • OP054: Myenteric ganglia contain a highly neurogenic population of enteric glial cells: Utility for regenerative therapies | Rhian Stavely |
| • OP055: Harnessing the neurogenic potential of enteric glia for the treatment of Hirschsprung disease | Lincon Stamp |
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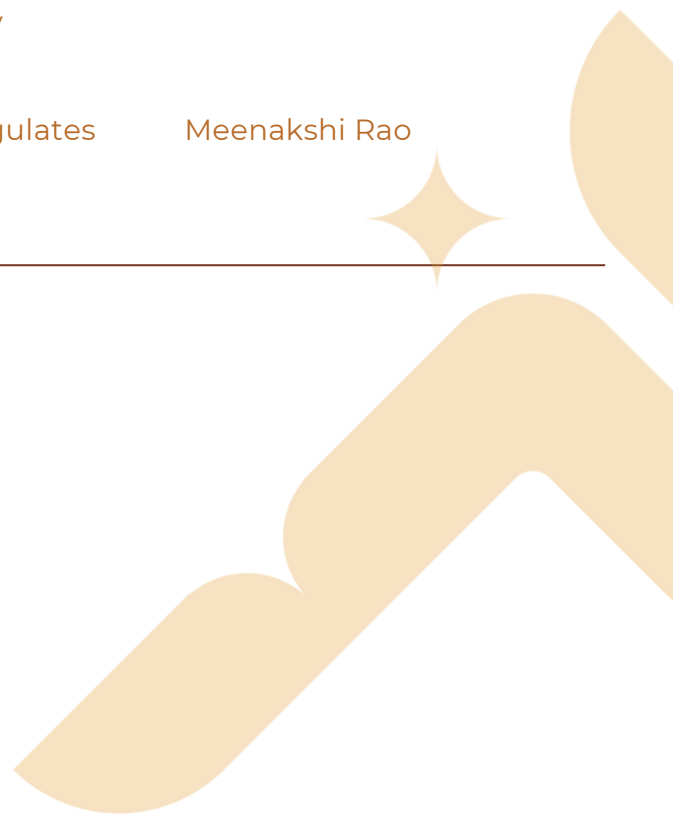
15.00-16.40

NEUROIMMUNE

Dervla O'Malley

Uday Ghoshal

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- | | |
|---|---------------------|
| • Neuroimmune signaling along the gut-brain axis | Dervla O'Malley |
| • Modification of ENS function by microbes | Yuuki Obata |
| • Immune calibration of neuron homeostasis | Colin Reardon |
| • OP010: Neuronal pannexin-1 regulates immune and intestinal functions | Jacques Gonzales |
| • OP018: Optogenetic activation of cholinergic signaling in the gut promotes recovery from experimental colitis by neuroimmune modulation | Ahmed Ayedur Rahman |
| • OP019: Microbial reactivation of host androgens regulates enteric nervous system function | Meenakshi Rao |
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ENS PLASTICITY

Gianluca Cipriani

Tadayuki Oshima

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- Organization and maintenance of the ENS by macrophages

Gianluca Cipriani

- Replacing the ENS through neurogenesis

Subhash Kulkarni

- Environmental factors modulating enteric neurons and glia

Robert O Heuckeroth



November 7th, 2024

room 209

8.00-9.40

ROLE OF GUT MICROBIOTA IN GI DISORDERS

Ari Syam

Niall P. Hyland

- GERD, functional dyspepsia and celiac disease
- Impact of the microbiome on gut physiology
- Gut non-bacterial microbiota: Emerging link to IBS
- OP041: Multiomics reveal microbial and metabolic features mediating the treatment efficacy of *Saccharomyces boulardii* in diarrhea-predominant irritable bowel syndrome: a prospective multicenter study
- OP047: The microbial metabolite indole-3-acetate is increased in functional dyspepsia and associated with psychological comorbidities

Govind Makharia

Niall P. Hyland

Hou Xiao Hua

Lei Zhang

Matthias Ceulemans

10.00-11.40

GUT-BRAIN INTERACTION

Elyanne M. Ratcliffe

Xiucui Fang

- A gut-brain pathway to modulate behavior
- How macrophages shape and maintain the enteric nervous system
- Autonomic regulation of gut function
- OP004: Stress-activated brain-gut circuits disrupt intestinal barrier integrity and social behavior
- OP046: Symptomatology but not physiology differentiates between functional dyspepsia and irritable bowel syndrome with or without overlapping gastrointestinal disorders
- OP053: Gut-(metabolite)-mediated fears? Preliminary findings from a cross-sectional analysis

Maya Kaelberer

Guy Boeckxstaens

Elyanne Ratcliffe

Kenny Chan

Matthias Ceulemans

Boushra Dalile



November 7th, 2024

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13.00-14.40

EMERGING TECHNOLOGY IN NEUROGASTROENTEROLOGY

Hans Gregersen
Joon Seong Lee

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- | | |
|---|-------------------|
| • Bionic devices in Neurogastroenterology and motility | Hans Gregersen |
| • MRI | Esben Bolvig Mark |
| • Intestinal gas measurement system | Chu K. Yao |
| • OP014: Comparative evaluation of Atmo Gas Capsule System and SmartPill GI Monitoring System for transit time assessment in motility disorders | William D. Chey |
| • OP015: Correlation between gastric peristalsis and upper abdominal symptoms using CINE MRI | Tsutomu Takeda |
| • OP037: Real world multiday testing reveals variations in day-to-day gastric activity among patients with gastroparesis symptoms | Brian E. Lacy |
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15.00-16.40

OBESITY, SATIETY REGULATION AND GUT HORMONE

Shanthi Srinivasan
Victoria Tan

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- | | |
|---|--------------------------|
| • Vagal mechanisms underlying feeding behavior | Amanda Page |
| • Diet –microbiome-ENS interaction | Shanthi Srinivasan |
| • Gut hormones in obesity and implications for the treatment | Patchaya Boonchaya-Anant |
| • OP001: Laterality in vagal sensory coding of intestinal content | Alan de Araujo |
| • OP002: Western style diet-driven vagal sensory neurons and gut-brain signaling remodelling promotes obesity | Arashdeep Singh |
| • OP020: Maintained visceral and total body fat loss following 2 weeks of exclusive orally-ingested isocaloric palatable elemental diet | Nicha Wongjarupong |
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16.40-17.40
GASTROPARESIS

Kewin Siah
Madhusudan Grover

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- Single cell profiling in gastroparesis
 - Updates in epidemiology
 - Treatment updates

Madhusudan Grover

Kewin Siah

William L. Hasler



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room 210

8.00-9.40

LESSONS LEARNED FROM CHICAGO CLASSIFICATION V 4.0

Albis Hani
Lee Yeong Yeh

- Applying the right protocol in each patient
- EGJ-OO: A real motility disorder?
- What's changed in Chicago Classification v4.0
- OP028: Prospective controlled study of endoscopic Botox injection for retrograde cricopharyngeus dysfunction (inability to belch syndrome)
- OP029: Effectiveness and long-term durability of Cricopharyngeal Peroral Endoscopic Myotomy (C-POEM) for treating dysphagia with upper oesophageal sphincter dysfunction: A mixed aetiology study
- OP056: Enhancing diagnostic yield of esophageal manometry using distension contraction plots of peristalsis & artificial intelligence

Prakash Gyawali
Lee Yeong Yeh
John Pandolfino
Santosh Sanagapalli

Alvin Cheah

Ravinder K. Mittal

10.00-11.40

WHAT'S NEW IN GERD?

Kwang Jae Lee
Michael F. Vaezi

- Is refractory heartburn still GERD?
- Diagnostic modalities for GERD
- Laryngopharyngeal reflux
- OP030: Dietary and lifestyle factors associated with troublesome gastroesophageal reflux symptoms in Vietnamese adults
- OP032: Efficacy of combining wedge pillow use with single-dose proton pump inhibitor (PPI) vs. twice-daily PPI in treating nocturnal gastroesophageal reflux disease (GERD) symptoms: a randomized controlled trial
- OP035: Overlapping reflux symptoms in functional dyspepsia are mostly unrelated to gastroesophageal reflux

Ronnie Fass
Michael F. Vaezi
Walter W Chan
Uyen Pham-Phuong Vo

Kanya Hirunrattanaorn

Songfeng Chen

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PROGRESSING TO ROME V

Jan Tack

Magnus Simren

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- The Rome Foundation: Activities and achievements in 2024 Jan Tack
 - Bloating vs. Distension: New understanding through the Rome Foundation Research Institute Magnus Simren
 - Rome Foundation and International Motility Societies Consensus on Gastroparesis Jan Tack
 - OP033: Occasional constipation: prevalence and impact in the rome foundation global epidemiology study (RFGES) Annelies Verheyden
 - OP034: Psychological distress does not explain the association between some disorders of gut brain interaction and eating disorders among primary care patients Nicholas Talley
 - OP036: Effects of pyloroplasty with gastric electrical stimulation (GES) on clinical outcomes in refractory gastroparesis patients- A double-blind randomized study Irene Sarosiek
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15.00-16.40

IBS

Giovanni Barbara

Shin Fukudo

-
- Pathophysiology Shin Fukudo
 - Diagnosis and management Magnus Simren
 - Post-infectious IBS Giovanni Barbara
 - OP021: Brain activity during public speaking situations in virtual reality in irritable bowel syndrome and functional dyspepsia patients Ryo Katsumata
 - OP022: Efficacy of App-delivered gut-directed hypnotherapy for IBS: A controlled trial of the Nerva program Simone Peters
 - OP026: The feasibility and effectiveness of a Chatbot-assisted dietary advice in Fermentable Oligosaccharides, Disaccharides, Monosaccharides, and Polyols (FODMAPs) restriction phase Pochara Somvanapanich
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WHAT'S NEW IN FUNCTIONAL ESOPHAGEAL DISORDER AND OROPHARYNGEAL FUNCTION?

Kwang Jae Lee

Philip Woodland

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- Are we able to distinguish functional heartburn from GERD?

Justin Wu

- Functional esophageal disorders

Philip Woodland

- Oropharyngeal dysphagia/UES function

Taher I. Omari



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GUT SENSING

Catia Sternini
Hongzhen Hu

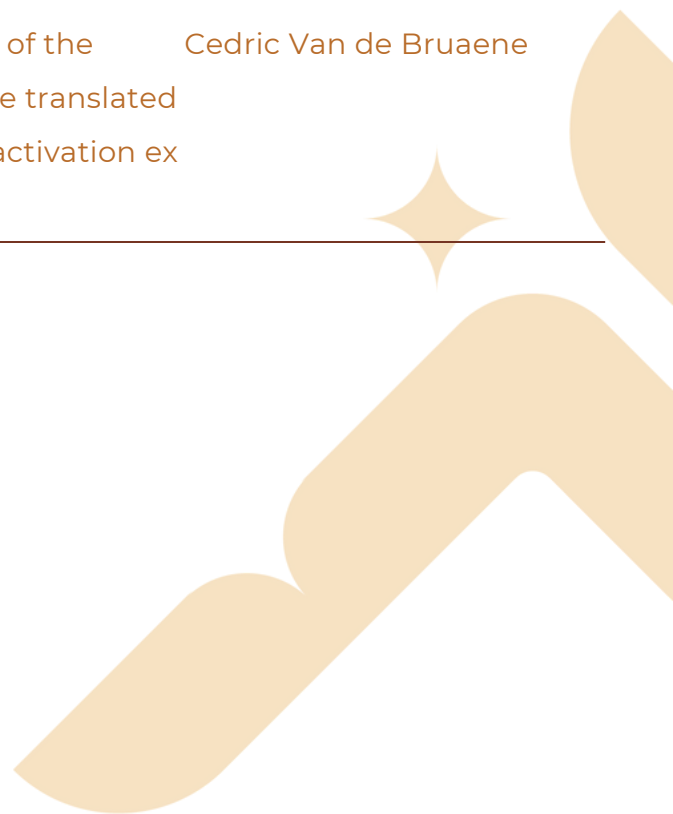
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- Gut mechanoreceptors and visceral pain
Hongzhen Hu
 - Mechanosensory control of GI transit
Arthur Beyder
 - Novel intrinsic sensory neurons of the ENS
David R. Linden
 - OP017: Intestinal pain signalling drives ion and water secretion in the gut mucosa through the release of neuropeptides
Javier Aguilera-Lizarraga
 - OP065: Nutrient and paracrine activation of human enterochromaffin cells
Constanza Alcaino
-

10.00-11.40

DIET: JUST A TRIGGER OR POTENTIAL CAUSE OF SYMPTOMS IN DGBI

Sutep Gonlachanvit
William D. Chey

-
- The basic scientist view
Premysl Bercik
 - The clinician view
William D. Chey
 - Diet and the microbiota-gut-brain axis
Gerard Clarke
 - OP031: Efficacy of Structural Individual Low FODMAPs Dietary Advice (SILFD) for gastroesophageal reflux disease (GERD): A randomized trial
Kandechpong Sritunyarat
 - OP058: Involvement of eosinophil-driven intestinal immune activation in the response to the DOMINO diet and in different IBS subtypes
Karen Van den Houte
 - OP059: Observation of local, food-induced changes of the duodenal mucosa in functional dyspepsia cannot be translated in permeability alterations or changes in mast cell activation ex vivo
Cedric Van de Bruaene
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NEW TECHNOLOGIES TO INVESTIGATE ENS FUNCTION

Elly Sau-Wai Ngan
Purna Kashyap

-
- The enteric nervous system of the human and mouse colon at a single-cell resolution Elly Sau-Wai Ngan
 - Building a functional gut from iPSC Faranak Fatahi
 - Integrating multiomics level data to predict gut functions Purna Kashyap
 - OP008: Intraluminal fructose oligosaccharide activates colonic myenteric neurons via the calcium sensing receptor Preedajit Wongkrasant
 - OP012: Exploring enteric nervous system morphology with centimeter-scale sampling by 3D microscopy in mouse and human gastrointestinal tract Arielle Planchette
 - OP066: Sex-specific contribution of mitochondrial dysfunction in interstitial cells of Cajal (ICC) to diabetic gastroparesis Tamas Ordog
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15.00-16.40

STUDY OF BRAIN-GUT INTERACTION BY IMAGING AND NOVEL TECHNIQUES

Lukas Van Oudenhove
Xiucai Fang

-
- Brain imaging Lukas Van Oudenhove
 - Imaging of ICC Kristen Smith-Edwards
 - Modeling gut-brain interactions using organoids and microfluidics devices Brooke R Druliner
 - OP006: Intestinal epithelial serotonin modulates emotional behavior Lin Yung Hung
 - OP051: Neuroinflammation in irritable bowel syndrome: a [18F]DPA-714 PET study Maaïke Van Den Hout
 - OP052: Resting-state functional connectivity in emotional-arousal, salience, executive and autonomic brain networks discriminates functional dyspepsia patients from healthy controls Nathalie Weltens
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NOVEL NEUROBIOLOGY MECHANISM OF THE
GUT

Kee Wook Jung

Yvette Taché

-
- Neurogenesis
 - IBS and Neuroimmune Interactions at the Colonic Mucosa
 - Neuroimmune axis

Marlene M. Hao

Pu-Qing Yuan

Colin Reardon



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APPETITE REGULATION

Amanda Page
Xiao Yinglian

-
- Gastrointestinal regulation of appetite Amanda Page
 - CNS regulation of appetite and eating Yu Fu
 - Putting it all together: Microbial regulation of behavioral comorbidities in obesity Gerard Clarke
 - OP043: Differential neural activity in response to intragastric administration of the non-caloric sweetener erythritol compared to sucrose Aleksandra Budzinska
 - OP045: Impact of intragastric quinine on brain responses to the anticipation and receipt of food reward in health Nathalie Weltens
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10.00-11.40

CRITICAL REVISION OF THE LITERATURE ON THE ROLE OF MICROBIOTA IN DGBI

Kee Wook Jung
Lin Chang

-
- Everything to do with microbiota Lin Chang
 - Nothing to do with microbiota Robin Spiller
 - Can we define a healthy gut microbiome Jeroen Raes
 - OP042: Children with irritable bowel syndrome show gut microbial composition similar to healthy controls and distinct from children with acute pancreatitis and Crohn's disease Neha R Santucci
 - OP062: Effect of antimicrobial peptide Reg3γ on IBS-like symptoms following Citrobacter rodentium infection Valentine Daugey
 - OP063: Defects in the crosstalk between microbiota and the intestinal epithelial barrier: a new player involved in digestive disorders in women with chronic pelvic pain Neunlist Michel
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HYBRID BASIC AND CLINICAL SESSION

Hidekazu Suzuki

Lin Chang

- Visceral pain and sex differences

basic: Catia Sternini , clinical: Lin Chang

- Novel targets in visceral hypersensitivity

basic: Stuart Brierly, clinical: Guy Boeckxstaen

- Non-conventional treatment approach for visceral pain

basic: Daniel Keszthelyi, clinical: G. Nicholas Verne

15.00-16.40

PRECISION MEDICINE IN DGBI

Akihito Nagahara

Brian E Lacy

- Pharmacogenomics

Adil Bharucha

- Physiology based stratification of DGBI

Uday Ghoshal

- Latest on precision medicine in DGBI in 2024

Brian E. Lacy

- OP060: Development of nano-antibodies to reduce visceral hyper-sensitivity in Irritable Bowel Syndrome, Trypsin 3 as a new target.

Nathalie Vergnolle

- OP044: Metabolomic analysis in achalasia patients after POEM Peter Banovcin using NMR spectroscopy

- OP057: Association of circulating cytokine levels and tissue-infiltrating myeloid cells with achalasia: Results from Mendelian randomization and validation through clinical characteristics and single-cell RNA sequencing

Xinyue Li



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NOVEL THERAPEUTIC TARGETS IN NEUROGASTROENTEROLOGY AND MOTILITY

Hyojin Park
Nicolas Pilon

-
- Stimulating peripheral neural pathways to alleviate GI dysfunction
 - Replacing lost neurons
 - Stress as a modulator of gut neural signaling

Ugo Grossi

Nicolas Pilon

Muriel Larauche



November 8th, 2024

room 210

8.00-9.40

WHAT'S NEW IN CONSTIPATION?

Satish Rao

Tanisa Patcharatkul

- From pathophysiology to treatment
- Role of surgery
- Colonic and anorectal motility disorders
- OP023: Efficacy of Bifidobacterium bifidum G9-1 for quality of life in patients with chronic constipation: a multicenter, double-blind, randomized controlled trial
- OP024: Evaluating colonic stool of constipation using abdominal ultrasonography
- OP027: Multi-modal deep learning for predicting dyssynergic defecation (DD) using abdominal X-rays and symptom questionnaires

Maura Corsetti

Ugo Grossi

Satish Rao

Noboru Misawa

Momoko Tsuda

Pakkapon Rattanachaisit

10.00-11.40

ABDOMINAL PAIN FROM BENCH TO BEDSIDE

Gwee Kok Ann

TBC

- Role of bacterial and host lipids in visceral hypersensitivity
- Genetic factors of importance for visceral pain
- Endophenotypes in visceral pain
- OP050: The anticipation of bodily threat influences perception of esophageal stimulations: an experimental evaluation of esophageal hypervigilance
- OP064: Validation of pain-reduction effect of a rationally-designed live bacterial consortium for treatment of IBS, based on microbiome functional genomics analysis

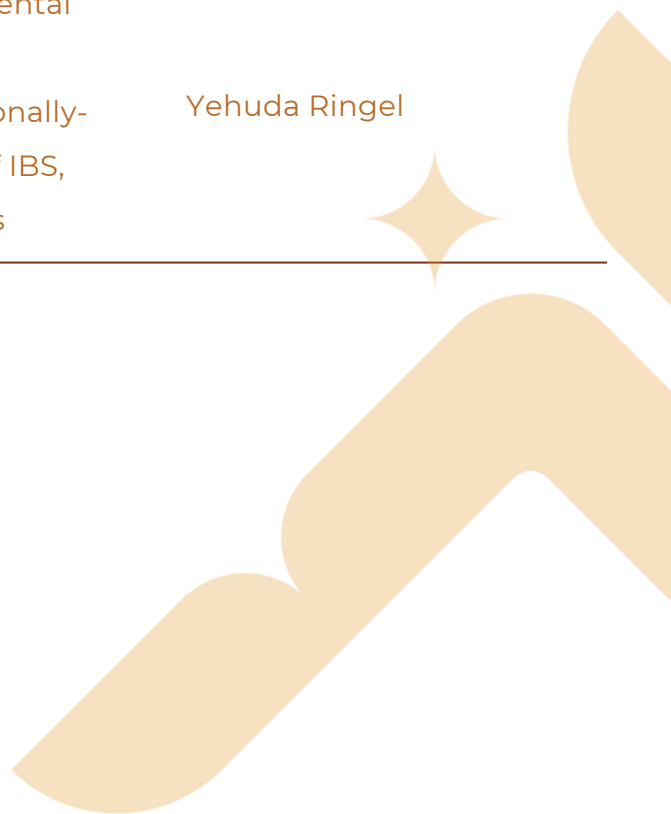
Nicolas Cenac

Mauro D'Amato

TBC

Livia Guadagnoli

Yehuda Ringel



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WHEN PEDIATRIC AND ADULT GASTROENTEROLOGISTS MEET

Miguel Saps
Prakash Gyawali

- GERD
- Constipation
- Chronic abdominal pain

Nikhil Thapar
Danial Sifrim
Shaman Rajindrajith
Adil Bharucha
Robert Shulman
Linda Nguyen

15.00-16.40

ALTERNATIVE/HERBAL MEDICINE IN DGBI

Ching-Liang Lu
Elyse Thakur

- The East view
- The West view
- Electroacupuncture stimulation
- OP025: The efficacy and safety of compound glutamine entersoluble capsule in the treatment of diarrhea predominant irritable bowel syndrome: a multicenter randomized, double blinded, placebo-controlled withdrawal trial
- OP061: Exploring the potential targets of Shuganjiayu capsules on functional dyspepsia through network pharmacology combined with proteomics, molecular docking and in vivo validation
- OP040: Gastrointestinal responses to opium tincture in healthy volunteers: A magnetic resonance imaging study

Ching-Liang Lu
Gerald Holtmann
Hou Xiaohua

Tao Bai

Zhanye Zhang

Esben Bolvig Mark

16.40-17.40

CONSENSUS AND CLASSIFICATIONS

Chien-Lin Chen
Linda Nguyen

- The Lyon consensus 2.0
- International consensus on idiopathic gastroparesis
- The London classification
- free papers presentation

Prakash Gyawali
Linda Nguyen
Reuben K. Wong