



The 5<sup>th</sup> Biennial Meeting of  
The Federation of Neurogastroenterology and Motility (FNM)

# SCIENTIFIC PROGRAM

November 5 - 8, 2024

Queen Sirikit National Convention Center  
Bangkok, Thailand



HOST



SUPPORTED BY



## FNM board

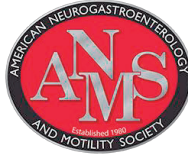
Sutep Gonlachanvit  
Hiroto Miwa  
Kewin Siah



## FNM 2024 Scientific Committee

Hiroto Miwa  
Justin Wu  
Siah Tien Ho  
Tanisa Patcharatrakul

Nicholas Verne  
John Pandolfino  
Adil Bharucha



Prakash Gyawali  
Shanthi Srinivasan  
Linda Anh Bui Nguyen  
Brian Gulbransen

Jan Tack  
Qasim Aziz  
Ram Dickman



Magnus Simrén  
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Maura Corsetti  
Gerard Clarke

Ignacio Hanna  
Luis Aguilar Paiz



Ignacio Hanna  
Luis Aguilar Paiz

Christine Feinle  
Simona Carbone



Christine Feinle  
May Y W Wong

## Local Organizing Committee

Sutep Gonlachanvit  
Tanisa Patcharatrakul  
Panyavee Pitisuttithum  
Jarongkorn Sirimongkolkasem  
Pakkapon Rattanachaisit

President  
Secretary general  
Committee  
Committee  
Committee

## Local Executive Committee

Artirat Charukitpipat  
Taveesin Tanprayoon  
Yudhtana Sattawatthamrong  
Napas Paorohitya

Program executive advisor  
Program executive advisor  
Social event  
Communication & PR

# WELCOME

The FNM 2024 local organizing committee, in collaboration with the Asian Neurogastroenterology and Motility Association and the Center of Excellence in Neurogastroenterology and Motility at Chulalongkorn University, is excited to host the FNM 2024 conference in Bangkok, Thailand. This event will provide a platform for clinicians, researchers, and professionals from around the world to exchange knowledge and advancements in neurogastroenterology and motility. With over 100 distinguished speakers presenting cutting-edge findings across basic, translational, and clinical aspects, FNM 2024 promises to be a groundbreaking event.

Bangkok, a vibrant city of contrasts, will serve as a dynamic host for the conference. Attendees will have the opportunity to explore the city's rich culture, savor exquisite cuisines, and enjoy its famous street food.

FNM 2024 in Bangkok is the perfect opportunity to gain insights into the latest advancements in neurogastroenterology and motility while experiencing the unique culture and flavors of Thailand.



Professor Sutep Gonlachanvit  
Chair, FNM 2024 local organizing committee  
Director, Center of Excellence in Neurogastroenterology and Motility,  
Chulalongkorn University, Bangkok, Thailand



# FNM 2024 program at a glance

Room 208	Room 209	Room 210	Room 211	Room 203
<b>Tue. November 5, 2024</b>				
01:00 P.M. - 06:00 P.M.	Post-graduate Course			
<b>Wed. November 6, 2024</b>				
<b>FNM main scientific program</b>				
08:00 A.M. - 12:00 P.M.	Post-graduate Course			<b>FNM-associate events</b> Pediatric masterclass
01:00 P.M. - 02:00 P.M.	Plenary Session Immune dysregulation in IBS • Food and gut-brain axis • Gut microbiota in IBS in different parts of the world	Live from room 208-209		
02:00 P.M. - 02:30 P.M.	Royal Reception			
02:30 P.M. - 03:50 P.M.	Live from room 210	<b>*Opening Ceremony*</b> Plenary session • GERD overlapping with DGBI: Good or Bad?		
03:50 P.M. - 04:30 P.M.	Break			
04:30 P.M. - 06:00 P.M.	Plenary symposium: Dyspepsia			
06:00 P.M. - 07:15 P.M.	Sponsored symposium (by Reckitt Benckiser) Ways to trim down PPI treatment for GERD?			
07:30 P.M. - 08:30 P.M.	<b>Welcome Reception</b>			

\*Her Royal Highness Princess Maha Chakri Sirindhorn will grace the FNM 2024 meeting with her presence at the opening ceremony session. We would be honored to have all registered attendees join this special occasion.

For security reasons, if you wish to greet Her Royal Highness in person, please present your ID or passport and arrive the venue by 1:00 PM in formal attire. A live broadcast of the event will also be available in rooms 208-209.

# FNM 2024 program at a glance

	Room 208	Room 209	Room 210	Room 211	Room 203
<b>Thu. November 7, 2024</b>					
	<b>FNM main scientific program</b>				
	<b>Basic science session</b>	<b>Translational science session</b>	<b>Clinical science session</b>	<b>FNM special sessions</b>	
08:00 A.M. - 09:40 A.M.	B1 Leaky Gut in DGBI	T1 Role of Gut Microbiota in GI Disorders	C1 Lessons Learned from Chicago Classification V 4.0	Pediatric session 1 (08:00-9:00) Best of LBBB (9:10-9:40)	
09:40 A.M. - 10:00 A.M.	Break				
10:00 A.M. - 11:40 A.M.	B2 The ENS at Opposite Ends of the Aging Spectrum	T2 Gut-Brain Interaction	C2 What's New in GERD?	Middle East NGM club	
11:40 A.M. - 01:00 P.M.	lunch, poster presentation				
01:00 P.M. - 02:40 P.M.	B3 Role of Glia cells in Gut Functions	T3 Emerging Technology in Neurogastroenterology	C3 Progression to ROME V	Traditional, Complementary, Integrative Medicine in DGBI	
02:40 P.M. - 03:00 P.M.	break				
03:00 P.M. - 04:40 P.M.	B4 Neuroimmune	T4 Obesity, Satiety Regulation and Gut Hormone	C4 IBS	Asian Food and DGBI	
04:40 P.M. - 05:40 P.M.	B5 ENS Plasticity	T5 Gastroparesis	C5 What's New in Functional Esophageal Disorder and Oropharyngeal Function?	Asian Focus on DGBI	

# FNM 2024 program at a glance

	Room 208	Room 209	Room 210	Room 211	Room 203
<b>Fri. November 8, 2024</b>					
	<b>FNM main scientific program</b>				
	<b>Basic science session</b>	<b>Translational science session</b>	<b>Clinical science session</b>	<b>FNM special sessions</b>	<b>FNM-associate events</b>
08:00 A.M. - 09:40 A.M.	B6 Gut Sensing	T6 Appetite Regulation	C6 What's New in Constipation?	Pediatric session 2	
09:40 A.M. - 10:00 A.M.	Break				
10:00 A.M. - 11:40 A.M.	B7 Abdominal Pain from Bench to Bedside	T7 Critical Revision of the Literature on the Role of Microbiota in DGBI	C7 Diet: Just a Trigger or Potential Cause of Symptoms in DGBI	Pediatric session 3	
11:40 A.M. - 01:00 P.M.	lunch, poster presentation				
01:00 P.M. - 02:40 P.M.	B8 New Technologies to Investigate ENS Function	T8 Hybrid Basic and Clinical Session	C8 When Pediatric and Adult Gastroenterologists Meet		Asian ROme foundation BiOmarker project (ROBOT) & Young Investigators Meeting
02:40 P.M. - 03:00 P.M.	Break				
03:00 P.M. - 04:40 P.M.	B9 Study of Brain-Gut Interaction by Imaging and Novel Techniques	T9 Precision Medicine in DGBI	C9 Alternative/Herbal Medicine in DGBI		
04:40 P.M. - 05:40 P.M.	B10 Novel Neurobiology Mechanism of the Gut	T10 Novel Therapeutic Targets in Neurogastroenterology and Motility	C10 Consensus and Classifications		

# Postgraduate course

## "Navigating Solutions for DGBI and GI motility disorders"

Room 208 - 209

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### November 5<sup>th</sup>, 2024

01:25 P.M. - 01:50 P.M.	Busting Bloating	Sutep Gonlachanvit
01:50 P.M. - 02:15 P.M.	Current management of achalasia	Michael F Vaezi
02:15 P.M. - 02:40 P.M.	Management of non-obstructive dysphagia: beyond achalasia	John Pandolfino
03:05 P.M. - 03:30 P.M.	Nailing NERD	Justin Wu
03:30 P.M. - 03:55 P.M.	Clinical use of Rome criteria: Tips and pitfalls	Jan Tack
03:55 P.M. - 04:20 P.M.	Supragastric belching: evaluation and solutions	Daniel Sifrim
04:20 P.M. - 04:45 P.M.	SIBO and IMO demystified	Uday Ghoshal
04:45 P.M. - 05:10 P.M.	Impact of obesity treatment on GI motility	Prakash Gyawali
05:10 P.M. - 05:35 P.M.	Food: friend or foe	William Chey

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### November 6<sup>th</sup>, 2024

08:00 A.M. - 08:25 A.M.	Empowering Control: Non-Surgical Solutions for Fecal Incontinence	Satish Rao
08:25 A.M. - 08:50 A.M.	Managing the diverse symptoms of IBS patients	Magnus Simren
08:50 A.M. - 09:15 A.M.	Novel pharmacologic treatment for constipation	Atsushi Nakajima
09:15 A.M. - 09:40 A.M.	Role of anorectal manometry in management of constipation	Adil Bharucha
10:05 A.M. - 10:30 A.M.	Mind matters: Psychological management for DGBI	Lin Chang
10:30 A.M. - 10:55 A.M.	Endoscopic Breakthroughs in GI Motility Disorders	Ping-Hong Zhou
10:55 A.M. - 11:20 A.M.	Gut microbiota manipulation in DGBI	Niall Hyland



# November 6<sup>th</sup>, 2024

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## Opening Ceremony & Plenary Session

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

**Room 208 - 210**  
**01:00 P.M. - 04:00 P.M.**

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: Dyspepsia

Hiroto Miwa Lin Chang

**Room 208 - 209**  
**04:30 P.M. - 06:00 P.M.**

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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# November 6<sup>th</sup>, 2024

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## Sponsored symposium

(by Reckitt Benckiser)

Ways to trim down PPI treatment for GERD?

**Room 208 - 209**  
**06:00 P.M. - 07:15 P.M.**

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

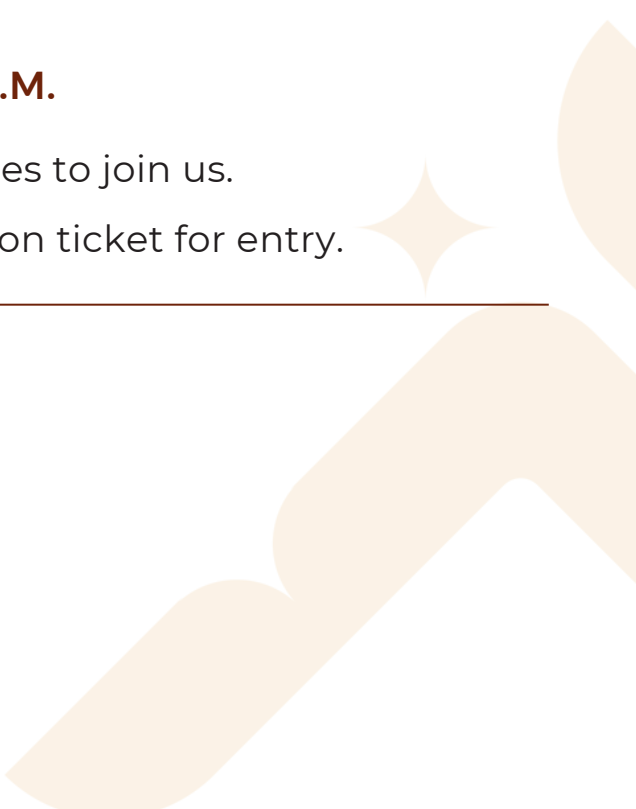
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## Welcome Reception

**Room 210 - 211**  
**07:30 P.M. - 08:30 P.M.**

We cordially invite all attendees to join us.  
Please bring your welcome reception ticket for entry.

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# November 7<sup>th</sup>, 2024

Room 208

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08:00 A.M. - 09:40 A.M.

## (B1) LEAKY GUT IN DGBI

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- 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

**Andrew Chua**  
**Madhusudan Grover**

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Nathalie Vergnolle  
Madhusudan Grover

Tadayuki Oshima

Myat Noe Han  
University of Melbourne, Australia

Zhanye Zhang  
The First Affiliated Hospital of  
Sun Yat-sen University,  
People's Republic of China

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10:00 A.M. - 11:40 A.M.

## (B2) THE ENS AT OPPOSITE ENDS OF THE AGING SPECTRUM

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- 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- $\beta$  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

**Faranak Fattahi**  
**Subhash Kulkarni**

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Julia Ganz  
Robert O Heuckeroth  
Subhash Kulkarni

Brossaud Rodrigue  
University of Nantes, France

Melanie Scharr  
University of Tübingen, Germany

Narges Sadat Mahdavian  
Monash Institute of Pharmaceutical  
Sciences, Australia

# November 7<sup>th</sup>, 2024

Room 208

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01:00 P.M. - 02:40 P.M.

## (B3) ROLE OF GLIAL CELLS IN GUT FUNCTIONS

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**Luisa Seguella**  
**Marlene M. Hao**

- Barrier functions
- Glia as modulators of gut motility and sensory functions
- Glia and gut microbes
  
- OP013: C1qa Muscularis Macrophages regulate synaptic dynamics
  
- OP054: Myenteric ganglia contain a highly neurogenic population of enteric glial cells: Utility for regenerative therapies
  
- OP055: Harnessing the neurogenic potential of enteric glia for the treatment of Hirschsprung disease

Meenakshi Rao

Brian Gulbransen

Luisa Seguella

**Mario D'Ambrosio**

Mayo Clinic Rochester, USA and  
University of Florence, Italy

**Rhian Stavelly**

Massachusetts General Hospital  
/Harvard Medical School, USA

**Lincon Stamp**

University of Melbourne,  
Australia

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03:00 P.M. - 04:40 P.M.

## (B4) NEUROIMMUNE

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**Dervla O'Malley**  
**Xiao Yinglian**

- Neuroimmune signaling along the gut-brain axis
- Modification of ENS function by microbes
- Immune calibration of neuron homeostasis
- OP010: Neuronal pannexin-1 regulates immune and intestinal functions
  
- OP018: Optogenetic activation of cholinergic signaling in the gut promotes recovery from experimental colitis by neuroimmune modulation
  
- OP019: Microbial reactivation of host androgens regulates enteric nervous system function

Dervla O'Malley

Yuuki Obata

Colin Reardon

**Jacques Gonzales**

Michigan State University, USA

**Ahmed Ayedur Rahman**

Harvard Medical School, USA

**Meenakshi Rao**

Boston Children's Hospital and  
Harvard Medical School, USA



# November 7<sup>th</sup>, 2024

Room 208

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04:40 P.M. - 05:40 P.M.

## (B5) ENS PLASTICITY

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Gianluca Cipriani

Tadayuki Oshima

- Organization and maintenance of the ENS  
by macrophages
- Replacing the ENS through neurogenesis
- Environmental factors  
modulating enteric neurons and glia

Gianluca Cipriani

Subhash Kulkarni

Robert O Heuckeroth

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# November 7<sup>th</sup>, 2024

## Room 209

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08:00 A.M. - 09:40 A.M.

### (T1) ROLE OF GUT MICROBIOTA IN GI DISORDERS

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- GERD, functional dyspepsia and celiac disease
- Impact of the microbiome on gut physiology
- Gut non-bacterial microbiota: Emerging link to IBS

**Ari Syam**  
**Niall P. Hyland**

Govind Makharia  
Niall P. Hyland  
Hou Xiao Hua

- OP041: Multiomics reveal microbial and metabolic features mediating the treatment efficacy of *Saccharomyces boulardii* in diarrhea-predominant irritable bowel syndrome: a prospective multicenter study

**Lei Zhang**  
Huazhong University of Science  
and Technology, People's  
Republic of China

- OP047: The microbial metabolite indole-3-acetate is increased in functional dyspepsia and associated with psychological comorbidities

**Matthias Ceulemans**  
KU Leuven, Belgium

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10:00 A.M. - 11:40 A.M.

### (T2) GUT-BRAIN INTERACTION

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- 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

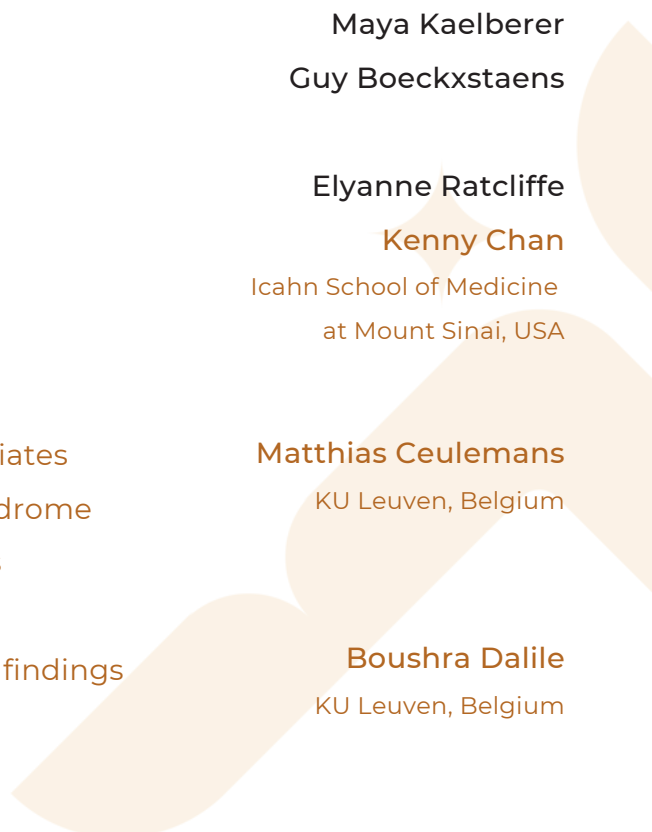
**Elyanne M. Ratcliffe**  
**Xiukai Fang**

Maya Kaelberer  
Guy Boeckxstaens

**Elyanne Ratcliffe**  
**Kenny Chan**  
Icahn School of Medicine  
at Mount Sinai, USA

**Matthias Ceulemans**  
KU Leuven, Belgium

**Boushra Dalile**  
KU Leuven, Belgium



# November 7<sup>th</sup>, 2024

## Room 209

01:00 P.M. - 02:40 P.M.

### (T3) EMERGING TECHNOLOGY IN NEUROGASTROENTEROLOGY

**Hans Gregersen**  
**Joon Seong Lee**

- Bionic devices in Neurogastroenterology and motility
- MRI
- Intestinal gas measurement system
- OP014: Comparative evaluation of Atmo Gas Capsule System and SmartPill GI Monitoring System for transit time assessment in motility disorders
- OP015: Correlation between gastric peristalsis and upper abdominal symptoms using CINE MRI
- OP037: Real world multiday testing reveals variations in day-to-day gastric activity among patients with gastroparesis symptoms

Hans Gregersen  
Esben Bolvig Mark  
Chu K. Yao  
**William D. Chey**  
University of Michigan, USA

**Tsutomu Takeda**  
Juntendo University School of  
Medicine, Japan

**Brian E. Lacy**  
Mayo Clinic, USA

03:00 P.M. - 04:40 P.M.

### (T4) OBESITY, SATIETY REGULATION AND GUT HORMONE

**Shanthi Srinivasan**  
**Victoria Tan**

- Obesity and vagal afferent satiety signalling from the gut
- Diet –microbiome-ENS interaction
- Gut hormones in obesity and implications for the treatment
- OP001: Laterality in vagal sensory coding of intestinal content
- OP002: Western style diet-driven vagal sensory neurons and gut-brain signaling remodelling promotes obesity
- OP020: Maintained visceral and total body fat loss following 2 weeks of exclusive orally-ingested isocaloric palatable elemental diet

Amanda Page  
Shanthi Srinivasan  
Patchaya Boonchaya-Anant  
**Alan de Araujo**  
Monell Chemical Senses Center  
and University of Pennsylvania, USA

**Arashdeep Singh**  
University of Pennsylvania, USA

**Nicha Wongjarupong**  
Cedars-Sinai Medical Center and  
University of Minnesota, USA

# November 7<sup>th</sup>, 2024

Room 209

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04:40 P.M. - 05:40 P.M.

## (T5) GASTROPARESIS

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**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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# November 7<sup>th</sup>, 2024

Room 210

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08:00 A.M. - 09:40 A.M.

## (C1) LESSONS LEARNED FROM CHICAGO CLASSIFICATION V 4.0

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**Max Schumulson**  
**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**

St. Vincent's Hospital Sydney,  
Australia

**Michal Szczesniak**

St George Hospital and University  
of New South Wales, Australia

**Ravinder K. Mittal**

University of California, USA

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10:00 A.M. - 11:40 A.M.

## (C2) WHAT'S NEW IN GERD?

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**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

Ronnie Fass

Michael F. Vaezi

Walter W Chan

**Uyen Pham-Phuong Vo**

University of Medicine and Pharmacy  
at Ho Chi Minh City and Nhan Dan  
Gia Dinh Hospital, Vietnam

**Kanya Hirunrattanaporn**

Chulalongkorn University  
and King Chulalongkorn  
Memorial Hospital, Thailand



# November 7<sup>th</sup>, 2024

Room 210

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10:00 A.M. - 11:40 A.M.

## (C2) WHAT'S NEW IN GERD?

**Kwang Jae Lee**  
**Michael F. Vaezi**

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- OP035: Overlapping reflux symptoms in functional dyspepsia are mostly unrelated to gastroesophageal reflux

**Songfeng Chen**  
The First Affiliated Hospital  
of Sun Yat-sen University,  
People's Republic of China

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01:00 P.M. - 02:40 P.M.

## (C3) PROGRESSING TO ROME V

**Jan Tack**  
**Magnus Simren**

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- The Rome Foundation: Activities and achievements in 2024
- Bloating vs. Distension: New understanding through the Rome Foundation Research Institute
- Rome Foundation and International Motility Societies Consensus on Gastroparesis
- OP033: Occasional constipation: prevalence and impact in the rome foundation global epidemiology study (RFGES)
- OP034: Psychological distress does not explain the association between some disorders of gut brain interaction and eating disorders among primary care patients

**Jan Tack**  
**Magnus Simren**

**Annelies Verheyden**  
KU Leuven, Belgium

**Nicholas Talley**  
University of Newcastle, Australia

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# November 7<sup>th</sup>, 2024

Room 210

03:00 P.M. - 04:40 P.M.

## (C4) IBS

Giovanni Barbara

Shin Fukudo

- Pathophysiology
- Diagnosis and management
- Post-infectious IBS
- OP021: Brain activity during public speaking situations in virtual reality in irritable bowel syndrome and functional dyspepsia patients
- OP022: Efficacy of App-delivered gut-directed hypnotherapy for IBS: A controlled trial of the Nerva program
- OP026: The feasibility and effectiveness of a Chatbot-assisted dietary advice in Fermentable Oligosaccharides, Disaccharides, Monosaccharides, and Polyols (FODMAPs) restriction phase

Shin Fukudo

Magnus Simren

Giovanni Barbara

Ryo Katsumata

Kawasaki Medical School, Japan

Simone Peters

Monash University, Australia

Pochara Somvanapanich

Chulalongkorn University and

King Chulalongkorn Memorial

Hospital, Thailand

04:40 P.M. - 05:40 P.M.

## (C5) WHAT'S NEW IN FUNCTIONAL ESOPHAGEAL DISORDER AND OROPHARYNGEAL FUNCTION?

Kwang Jae Lee

Philip Woodland

- Are we able to distinguish functional heartburn from GERD?
- Functional esophageal disorders
- Oropharyngeal dysphagia/UES function

Justin Wu

Philip Woodland

Taher I. Omari

# November 8<sup>th</sup>, 2024

Room 208

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08:00 A.M. - 09:40 A.M.

## (B6) GUT SENSING

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- Gut mechanoreceptors and visceral pain
- Mechanosensory control of GI transit
- Novel intrinsic sensory neurons of the ENS
- OP017: Intestinal pain signalling drives ion and water secretion in the gut mucosa through the release of neuropeptides
  
- OP065: Nutrient and paracrine activation of human enterochromaffin cells

**Catia Sternini**

**Hongzhen Hu**

Hongzhen Hu

Arthur Beyder

David R. Linden

**Javier Aguilera-Lizarraga**

University of Cambridge,

United Kingdom

**Constanza Alcaino**

University of Cambridge,

United Kingdom

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10:00 A.M. - 11:40 A.M.

## (B7) ABDOMINAL PAIN FROM BENCH TO BEDSIDE

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- 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

**Gwee Kok Ann**

**Daniel Keszthelyi**

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Nicolas Cenac

Mauro D'Amato

Qasim Aziz

**Livia Guadagnoli**

KU Leuven, Belgium

**Yehuda Ringel**

Tel Aviv University, Israel

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# November 8<sup>th</sup>, 2024

Room 208

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01:00 P.M. - 02:40 P.M.

## (B8) NEW TECHNOLOGIES TO INVESTIGATE ENS FUNCTION

Elly Sau-Wai Ngan

Purna Kashyap

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

Elly Sau-Wai Ngan

Faranak Fattahi

Purna Kashyap

Preedajit Wongkrasant

University of Calgary, Canada

Arielle Planchette

Wyss Center for Bio and Neuroengineering, Switzerland

Tamas Ordog

Mayo Clinic College of Medicine and Science, USA

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03:00 P.M. - 04:40 P.M.

## (B9) STUDY OF BRAIN-GUT INTERACTION BY IMAGING AND NOVEL TECHNIQUES

Lukas Van Oudenhove

Xiukai Fang

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- Brain imaging
- Imaging functional connectivity in the gut-brain axis
- Modeling gut-brain interactions using organoids and microfluidics devices
- OP006: Intestinal epithelial serotonin modulates emotional behavior
- OP051: Neuroinflammation in irritable bowel syndrome: a [18F]DPA-714 PET study
- OP052: Resting-state functional connectivity in emotional-arousal, salience, executive and autonomic brain networks discriminates functional dyspepsia patients from healthy controls

Lukas Van Oudenhove

Kristen Smith-Edwards

Brooke R Druliner

Lin Yung Hung

New York University, USA

Maike Van Den Houte

KU Leuven, Belgium

Nathalie Weltens

KU Leuven, Belgium

# November 8<sup>th</sup>, 2024

Room 208

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04:40 P.M. - 05:40 P.M.

## (B10) NOVEL NEUROBIOLOGY MECHANISM OF THE GUT

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Kee Wook Jung

Pu-Qing Yuan

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

Marlene M. Hao

Pu-Qing Yuan

Colin Reardon

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# November 8<sup>th</sup>, 2024

Room 209

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08:00 A.M. - 09:40 A.M.

## (T6) APPETITE REGULATION

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Amanda Page

Akihito Nagahara

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- Plasticity of gastrointestinal vagal afferent satiety signals and appetite regulation 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  
KU Leuven, Belgium
  - OP045: Impact of intragastric quinine on brain responses to the anticipation and receipt of food reward in health Nathalie Weltens  
KU Leuven, Belgium
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10:00 A.M. - 11:40 A.M.

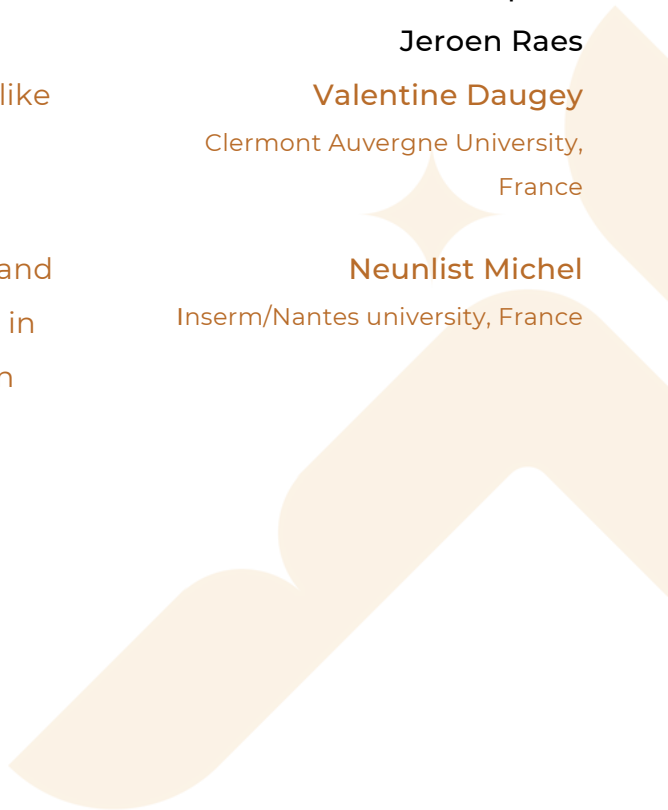
## (T7) CRITICAL REVISION OF THE LITERATURE ON THE ROLE OF MICROBIOTA IN DGBI

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Kee Wook Jung

Lin Chang

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- Everything to do with microbiota Lin Chang
  - Nothing to do with microbiota Robin Spiller
  - Can we define a healthy gut microbiome Jeroen Raes
  - OP062: Effect of antimicrobial peptide Reg3γ on IBS-like symptoms following *Citrobacter rodentium* infection Valentine Daugey  
Clermont Auvergne University,  
France
  - 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  
Inserm/Nantes university, France
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# November 8<sup>th</sup>, 2024

Room 209

01:00 P.M. - 02:40 P.M.

## (T8) 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 Brierley,  
clinical: Guy Boeckxstaen
- Non-conventional treatment approach for visceral pain  
basic: Daniel Keszthelyi,  
clinical: G. Nicholas Verne

03:00 P.M. - 04:40 P.M.

## (T9) 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  
INSERM, France
- OP044: Metabolomic analysis in achalasia patients after POEM using NMR spectroscopy  
Peter Banovcin  
Comenius University in Bratislava,  
Slovak Republik

04:40 P.M. - 05:40 P.M.

## (T10) NOVEL THERAPEUTIC TARGETS IN NEUROGASTROENTEROLOGY AND MOTILITY

Hyojin Park

Nicolas Pilon

- Stimulating peripheral neural pathways to alleviate GI dysfunction  
Ugo Grossi
- Replacing lost neurons  
Nicolas Pilon
- Stress as a modulator of gut neural signaling  
Muriel Larauche

# November 8<sup>th</sup>, 2024

## Room 210

08:00 A.M. - 09:40 A.M.

Satish Rao

### (C6) WHAT'S NEW IN CONSTIPATION?

Tanisa Patcharatrakul

- 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

Yokohama City University School  
of Medicine, Japan

Momoko Tsuda

Sapporo Cancer Screening  
Center, Japan

Pakkapon Rattanachaisit

Chulalongkorn University,  
Thailand

10:00 A.M. - 11:40 A.M.

### (C7) DIET: JUST A TRIGGER OR POTENTIAL CAUSE OF SYMPTOMS IN DGBI

Sutep Gonlachanvit

William D. Chey

- The basic scientist view
- The clinician view
- Diet and the microbiota-gut-brain axis
- OP031: Efficacy of Structural Individual Low FODMAPs Dietary Advice (SILFD) for gastroesophageal reflux disease (GERD): A randomized trial
- OP058: Involvement of eosinophil-driven intestinal immune activation in the response to the DOMINO diet and in different IBS subtypes
- 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

Premysl Bercik

William D. Chey

Gerard Clarke

Kandechpong Sritunyarat

Chulalongkorn University and  
King Chulalongkorn Memorial  
Hospital, Thailand

Karen Van den Houte

KU Leuven, Belgium

Cedric Van de Bruaene

KU Leuven, Belgium



# November 8<sup>th</sup>, 2024

Room 210

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01:00 P.M. - 02:40 P.M.

## (C8) WHEN PEDIATRIC AND ADULT GASTROENTEROLOGISTS MEET

Miguel Saps  
Prakash Gyawali

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- GERD
- Constipation
- Chronic abdominal pain

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

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03:00 P.M. - 04:40 P.M.

## (C9) ALTERNATIVE/HERBAL MEDICINE IN DGBI

Ching-Liang Lu  
Elyse Thakur

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- 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  
Huazhong University of Science and Technology and The People's Hospital of Chizhou, People's Republic of China

Zhanye Zhang  
First Affiliated Hospital of Sun Yat-sen University, People's Republic of China

Esben Bolvig Mark  
Aalborg University Hospital and Aalborg University, Denmark

# November 8<sup>th</sup>, 2024

Room 210

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04:40 P.M. - 05:40 P.M.

## (C10) CONSENSUS AND CLASSIFICATIONS

Chien-Lin Chen

Linda Nguyen

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- The Lyon consensus 2.0
- International consensus on idiopathic gastroparesis
- The London classification

Prakash Gyawali

Linda Nguyen

Reuben K. Wong

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**FNM Special sessions  
and FNM associate events**

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# The 1st APPSPGHAN Masterclass (in Collaboration with TSPGH) in Pediatric Disorders of Neurogastroenterology, Motility and Gut-Brain Interaction

**November 6<sup>th</sup>, 2024**

## Welcome and Introduction

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- 08.00 - 08.10** Voranush Chongsrisawat (President of TSPGH)  
**08.10 - 08.20** Nikhil Thapar (Chair APPSPGHAN DNMG sub-committee)
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## Chairs: Professor Boosba Vivatvakin Professor Nikhil Thapar

- 08.20-08.40** Introduction to Disorders of GI Motility  
Nikhil Thapar, Brisbane, Australia
- 08.40-09.00** Introduction to Disorders of Gut Brain Interaction  
Shaman Rajindrajith, Colombo, Sri Lanka
- 09.00-09.20** Partner Invited Speaker: Basic Principle of High-Resolution Manometry (HRM)  
Moderator: Atchariya Chanpong, Songkhla, Thailand  
Speaker: Jan-Willem Van Der Wal, Amsterdam, Netherlands
- 09.20-09.40** Investigating Motility Disorders (Esophagus, pH-impedance, Stomach)  
Anshu Srivastava, Lucknow, India
- 09.40-10.00** Investigating Motility Disorders (Small, Large Intestine and Anorectum)  
Samuel Nurko, Boston, USA
- 10.00-10.20** Esophageal Achalasia, Atresia and EoE  
Zeyad Mohannad Abdulkader, Doha, Qatar

- 10.20-10.40** Gastroesophageal Reflux  
Mohamed Mutalib, London, UK
- 10.40-11.00** Cyclic Vomiting Syndrome  
Zeyad Mohannad Abdulkader, Doha, Qatar
- 11.00-11.20** Approaching the Child with Abdominal Pain  
Miguel Saps, Miami, USA
- 11.20-11.40** Functional Constipation  
Badriul Hegar, Jakarta, Indonesia
- 11.40-12.00** Partner Invited Speaker: Impact of *Helicobacter pylori* on DGBIs  
Moderator: Voranush Chongsrisawat, Bangkok, Thailand  
Speaker: Rapat Pittayanon, Bangkok, Thailand
- 12.00-12.30** Interactive Q&A Session with Panel, Summary and Close  
Voranush Chongsrisawat (President of TSPGH)  
Nikhil Thapar (Chair APPSPGHAN DNMG sub-committee)

# Pediatric sessions

Room 211

**November 7<sup>th</sup>, 2024**

08:00 A.M. - 09:00 A.M.

Pediatric Session 1:

## **Key challenges in Pediatric Disorders of Gut Brain Interaction**

**Nikhil Thapar**

**Samuel Nurko**

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Abdominal pain, Evidence and Practice

Miguel Saps

Rumination and belching  
in young children and adolescents

Shaman Rajindrajith

Microbiome, Microbiota, Metabolites, Meals:  
Where are we with DGBIs?

Robert Shulman

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# Pediatric sessions

Room 211

**November 8<sup>th</sup>, 2024**

08:00 A.M. - 09:40 A.M.

Pediatric Session 2:

## Complex Dysmotility

**Anshu Srivastava**

**Miguel Saps**

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Pediatric Intestinal Pseudo-obstruction

**Nikhil Thapar**

Slow Transit Constipation in children: diagnosis and management

**Samuel Nurko**

Severe Oesophageal Motility Disorders

**Mohamed Mutalib**

OP016: Pan-colonic dysmotility in children after surgical correction of Hirschsprung disease

**Hannah Evans Barns**  
The Royal Children's Hospital and Murdoch Children's Research Institute, Australia

OP039: Genetic and manometric findings in pediatric intestinal pseudo-obstruction: A single center experience

**Sharon Wolfson**  
Children's Hospital of Philadelphia, USA

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# Pediatric sessions

Room 211

**November 8<sup>th</sup>, 2024**

10:00 A.M. - 11:40 A.M.

Pediatric Session 3:

## **Investigating GI dysmotility in Children: cutting edge**

**Shaman Rajindrajith**

**Zeyad Mohannad Abdulkader**

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Esophagus and Stomach

Anshu Srivastava

Small intestine

Atchariya Chanpong

Large intestine and Anorectum

Samuel Nurko

OP007: Utility of monitoring Fasting Phase during  
Pediatric Colonic Manometry Studies

**Lev Dorfman**  
Cincinnati Children's  
Hospital Medical Center,  
USA

OP038: C-Spirulina gastric emptying breath test  
(C-GEBT) normative values in healthy children are  
impacted by sex and puberty – A multicenter study

**Robert J Shulman**  
Baylor College of Medicine,  
USA

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# Integrating Traditions and Innovations: Middle East Neurogastroenterology & Motility Club at FNM

Room 211

**November 7<sup>th</sup>, 2024**

10:00 A.M. - 11:50 A.M.

**Sutep Gonlachanvit**

**Ehab Abufarhaneh**

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Future of Neurogastroenterology and Motility Disorders  
in the Middle East!

Ehab Abufarhaneh

Unveiling Saudi Arabia's Unique GERD Clinical Pathway:  
What Sets It Apart?

Mohammed Alzahrani

Insights into Functional Dyspepsia:  
Spotlight on the Middle East!

Mohammad Alrukaibi

Per Oral Endoscopic Myotomy:  
Transforming Achalasia Management in the Middle East

Shaimaa Elkholy

Navigating Anorectal Disorders:  
Overcoming Cultural Barriers!

Fady Daniel

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# Traditional, Complementary, Integrative Medicine (TCIM) in DGBIs:

Exploring Integrative Approaches and Celebrating  
the Inaugural ANMA-TCIM Special Interest Group

Room 211

**November 7<sup>th</sup>, 2024**

01:00 P.M. - 02:40 P.M.

**Kewin Siah**

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01:00 P.M. - 01:05 P.M.

Opening Ceremony

Xiaohua Hou

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01:05 P.M. - 01:25 P.M.

Pharmacological TCIM in  
the 2<sup>nd</sup> Asian Consensus on Functional Dyspepsia

Hidekazu Suzuki

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01:25 P.M. - 01:45 P.M.

Mind-Body Interventions for DGBIs

Elyse Thakur

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01:45 P.M. - 02:05 P.M.

Acupuncture and Tuina for DGBIs

Lidan Zhong

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02:05 P.M. - 02:40 P.M.

Inaugural ANMA-TCIM Special Interest Group

Hidekazu Suzuki  
Tang Xudong  
Elyse Thakur  
Xiaohua Hou

# ASIAN Focus Sessions

Room 211

**November 7<sup>th</sup>, 2024**

03:00 P.M. - 04:40 P.M.

## **Asian Food and DGBI**

**Xiaohua Hou  
Hyojin Park**

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Asian spices and DGBI  
Rice and low FODMAPs  
Roles of pre/probiotics  
Effect of food on celiac disease expression

Ching-Liang Lu  
Sutep Gonlachanvit  
Liping Duan  
Govind Makharria

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04:40 P.M. - 05:40 P.M.

## **Asian Focus on DGBI**

**Hidekazu Suzuki  
Ari Fahrial Syam**

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Epidemiology of DGBI in Asia  
Asian studies on pathophysiology of DGBI  
Guidelines management of functional dyspepsia

Uday Ghoshal  
Hiroto Miwa  
Sanjiv Mahadeva

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