Clinical Course • Providing the best clinical care for our patients

Thursday, August 15, 2019

4:00–6:00 pm  Registration

Friday, August 16, 2019

7:00 am–5:30 pm  Registration

7:00–7:45 am  Breakfast • Visit Exhibits

7:45–8:00 am  Welcome • Introduction • Beverley Greenwood-Van Meerveld, John Pandolfino

8:00–10:00 am

**Esophagus**

Moderators: Dustin Carlson, Rena Yadlapati

- 8:00–8:25 am  Non-obstructive dysphagia and phenotyping the patient  Dustin Carlson

- 8:25–8:50 am  Utility (or futility) of tools to diagnose laryngopharyngeal reflux  Rena Yadlapati

- 8:50–9:15 am  Mucosal impedance studies of the esophagus  Michael Vaezi

- 9:15–9:40 am  Non-minimally invasive esophageal tissue sampling, e.g., Cytosponge, string test, transnasal esophagoscopy (TNE)  Ikuo Hirano

- 9:40–10:00 am  Panel Discussion

10:00–10:30 am  Break • Visit Exhibits

10:30 am–12:30 pm

**Stomach/Small Bowel**

Moderators: Braden Kuo, Henry Parkman

- 10:30–10:55 am  Gastroparesis: Update on mechanisms from the Gastroparesis Consortium  Henry Parkman

- 10:55–11:20 am  New frontiers in studying motility of the stomach and small intestine  Braden Kuo

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**Program continued**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:20–11:45 am</td>
<td>Emerging capsule technologies for functional gastrointestinal and motility disorders: The future is now!</td>
<td>William Chey</td>
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<td>11:45 am–12:10 pm</td>
<td>Motility modifying agents - are we getting anywhere?</td>
<td>Mark Pimentel</td>
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<tr>
<td>12:10–12:30 pm</td>
<td>Panel Discussion</td>
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<td>12:30–1:15 pm</td>
<td>Lunch • Visit Exhibits</td>
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<tr>
<td>1:15–2:45 pm</td>
<td><strong>Anorectal Disorders</strong></td>
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<td>1:15–1:40 pm</td>
<td>New treatments for anorectal disorders</td>
<td>Satish Rao</td>
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<tr>
<td>1:40–2:05 pm</td>
<td>Colon motility in constipation: When and how should I assess this?</td>
<td>Richard Saad</td>
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<td>2:05–2:30 pm</td>
<td>Review radiopaque marker, wireless motility capsule, and advanced imaging in assessing colon motility in constipation</td>
<td>Darren Brenner</td>
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<td>2:30–2:45 pm</td>
<td>Panel Discussion</td>
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<td>2:45–3:00 pm</td>
<td>Break • Visit Exhibits</td>
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<tr>
<td>3:00–4:30 pm</td>
<td><strong>Mind–Medicine Interplay in Gastroenterology</strong></td>
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<tr>
<td>3:00–3:25 pm</td>
<td>New concepts into the mechanisms of Brain-Gut interactions</td>
<td>Kirsten Tillisch</td>
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<tr>
<td>3:25–3:50 pm</td>
<td>Choosing behavioral approaches for my patients – shifting to a more positive psychology/resilience model in psychogastroenterology</td>
<td>Laurie Keefer</td>
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<tr>
<td>3:50–4:15 pm</td>
<td>When the diagnosis is functional: Supporting the psychological needs of pediatric/young adult patients and their parents from evaluation through treatment</td>
<td>Julie Snyder</td>
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<td>4:15–4:30 pm</td>
<td>Panel Discussion</td>
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<tr>
<td>4:00–6:00 pm</td>
<td><strong>Women in Neurogastroenterology</strong></td>
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<tr>
<td>4:00–6:00 pm</td>
<td><strong>Marijuana and Opioids</strong></td>
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<td>4:30–5:30 pm</td>
<td>Moderators: John Pandolfino</td>
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<tr>
<td>4:30–4:55 pm</td>
<td>The link between cannabis, opioids, and chronic pain</td>
<td>Ryan Zaklin</td>
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<td>4:55–5:20 pm</td>
<td>Opioid constipation: New nomenclature, therapeutics, and guideline recommendations</td>
<td>Darren Brenner</td>
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<td>5:20–5:30 pm</td>
<td>Panel Discussion</td>
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<td>5:30 pm</td>
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Scientific Program begins next page
**Scientific Program • Advancing patient care through cutting-edge research**

### Friday, August 16, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am–5:00 pm</td>
<td>Registration</td>
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<tr>
<td>6:00–8:00 pm</td>
<td>Welcome Reception • Poster Session</td>
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### Saturday, August 17, 2019

<table>
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<tr>
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<tbody>
<tr>
<td>7:00 am–5:00 pm</td>
<td>Registration</td>
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<tr>
<td>7:00–7:45 am</td>
<td>Breakfast • Visit Exhibits</td>
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<td>Welcome • Introduction • Beverley Greenwood-Van Meerveld</td>
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#### 8:00–9:30 am Concurrent Sessions

**Concurrent Session 1**
**Neurodevelopmental programming of the GI tract**
Moderators: Kara Margolis, Shanti Srinivasan

- **8:00–8:20 am**
  - The effects of early-life stress on the development of FGIDs
    - Lin Chang
  - Extrinsic innervation of the GI tract
    - Terry Powley

- **8:20–8:40 am**
  - Intestinal microbiota influence the early postnatal development of the ENS
    - Elyanne Ratcliffe
  - Acute effects of diet on central vagal neurocircuits
    - Kirsteen Browning

- **8:40–9:00 am**
  - Mapping out ENS development at the single cell level
    - Michael Gershon
  - Shining a light on the black-box of stress-induced visceral pain
    - Anthony Johnson

- **9:00–9:15 am**
  - Abstract speaker 1

- **9:15–9:30 am**
  - Abstract speaker 2

- **9:30–10:00 am**
  - Break • Visit Exhibits

#### 10:00–10:30 am Concurrent Sessions

**Concurrent Session 1**
**New advances in behavioral treatments for GI diseases**
Moderator: Laurie Keefer

- **10:00–10:20 am**
  - Brain–gut psychotherapies for non-psychologists
    - Laurie Keefer
  - The role of stem cells in peripheral nervous system development
    - Jamie Belkind-Gerson

- **10:20–10:40 am**
  - Patient experiences with behavioral medicine
    - Sarah Quinton
  - Neurogenesis in the adult enteric nervous system
    - Pankaj Jay Pasricha

- **10:40–11:00 am**
  - Clinical implications of rapid gastric emptying
    - Sarah Ballou
  - Gene environment interactions and neural plasticity
    - Robert Heukeroth

- **11:00–11:15 am**
  - Abstract speaker 1

- **11:15–11:30 am**
  - Abstract speaker 2

- **11:30–11:45 am**
  - Abstract speaker 3

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<tr>
<td>11:45 am–2:00 pm</td>
<td>Lunch • Poster Session</td>
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<thead>
<tr>
<th>Time</th>
<th>Concurrent Session 2</th>
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| 2:00–3:30 pm | **Concurrent Session 2**  
Sex differences: Are they important in the control of the GI tract  
Moderator: Muriel Larauche, Miguel Saps | **Concurrent Session 2**  
Food intolerances: Laboratory to table  
Moderator: Helen Raybould |
| 2:00–2:20 pm | Role of sex and puberty in functional pain disorders  
Bruno Chumpitazi | Bitter taste receptors in the gut: Luminal sensing and signaling  
Catia Sternini |
| 2:20–2:40 pm | Estrogen–gut microbiome axis and women’s health  
Melissa Herbst-Kralovetz | Interactions between diet and the microbiota in the modulation of visceral sensation  
Alan Lomax |
| 2:40–3:00 pm | Sex and stress: Effects on the brain–gut axis  
Yanyan Jiang | Diet therapies for IBS: Where are we going?  
William Chey |
| 3:00–3:15 pm | Abstract speaker 1 | Abstract speaker 1 |
| 3:15–3:30 pm | Abstract speaker 2 | Abstract speaker 2 |
| 3:30–4:00 pm | Break • Visit Exhibits | Break • Visit Exhibits |
| 4:00–5:45 pm | **Concurrent Session 1**  
Next generation therapeutics: Targeting microbiology, life style, and host factors  
Moderators: Eammon Quigley, Tamas Ordog | **Concurrent Session 2**  
Neuroinflammation and bowel dysfunction  
Moderator: Fievos Christofi, Meenaksi Rao |
| 4:00–4:25 pm | Gut microbiome: Nurture, design, and replace  
Purna Kashyap | Enteric neuroplasticity in inflammatory disorders  
Gary Mawe |
| 4:25–4:50 pm | Cannabinoids: Use and abuse  
Keith Sharkey | Interaction between enteric neurons, glia, and nociceptors in neuroinflammation, motility, and pain  
Brian Gulbransen |
| 4:50–5:15 pm | Epigenetics: Erasing painful transcriptional memories  
John Wiley | The guts of the opioid crisis: Microbiome and opioid tolerance  
Hamid Akbarali |
| 5:15–5:30 pm | Abstract speaker 1 | Abstract speaker 1 |
| 5:30–5:45 pm | Abstract speaker 2 | Abstract speaker 2 |
| 6:00–8:00 pm | **Theme Symposium 1** | **Theme Symposium 2** |

### Sunday, August 18, 2019

- **W. Jerry Dodds, MD and Sushil K. Sarna, PhD Lectureship**  
  Handshake research, mechanistic thinking, and management of patients: Combine basic science and clinical medicine: Half human, half fish  
  *Michael Camilleri*

- **Young Investigator Forum • Presentations**  
  Moderators: Brian Gulbransen, Maria Vazquez, Co-Chairs, Young Investigator Forum

- **Break • Visit Exhibits**
### ANMS Distinguished Lectures

**Moderators:** Jim Galligan, Satish Rao

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:30–11:00 am</td>
<td>UES its Journey from Laboratory to Clinic</td>
<td>Reza Shaker</td>
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<tr>
<td>11:00–11:30 am</td>
<td>Bugs, guts, and brains: How your gut microbiota shapes your body and mind</td>
<td>Helen Raybould</td>
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<tr>
<td>11:30 am–12:00 pm</td>
<td>A renaissance for ’myogenic’ regulation of GI motility</td>
<td>Kenton Sanders</td>
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<td>12:00 pm</td>
<td>Adjourn</td>
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