Final Programme
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Dear Colleagues and Friends,

On behalf of the European Society of Neurogastroenterology and Motility (ESNM) and the American Neurogastroenterology and Motility Society – Functional Brain-Gut Research Group (ANMS), I would like to welcome you to the Joint International Neurogastroenterology and Motility Meeting September 6 – 8, 2012 in Bologna, Italy (NGM2012).

The purpose of this meeting is to bring together leading experts and emerging young investigators actively involved in Neurogastroenterology, digestive motility and functional gastrointestinal diseases from all around the world to discuss cutting-edge research. The meeting is also aimed at attracting physicians and health care professionals with an interest in these common pathological conditions whose diagnosis and treatment require updated knowledge in this rapidly growing area of Medicine.

The scientific committee has produced an exciting and comprehensive program. Attention has been paid to address basic, translational and clinical aspects of hot topics of Neurogastroenterology including: molecular and environmental factors influencing neuromuscular and other components of the gut wall, stress mechanisms of gastrointestinal functional and motility disorders, pain mechanisms, nutrient/microbiome sensing and function, epidemiological, pathophysiological and clinical aspects of functional esophago-gastro-intestinal disorders in different parts of the world, new technologies for the assessment of esophago-gastro-intestinal motility and perception, shortcomings and promises of current and future therapies.

Home of the oldest University of the world, Bologna maintains the elegance of a wealthy Medieval city. It is well connected to the rest of Europe by one of the largest airports in Italy and it is conveniently located in the heart of the Country, only 30 to 180 minutes away from other main cities such as Florence, Venice, Milan and Rome, by train.

September is a very pleasant period of the year in Italy and we hope you can enjoy the artistic and naturalistic beauties of the Country during the NGM2012.

We wish you an enjoyable NGM2012 and hope that your stay will be both enriching and educational.

Vincenzo Stanghellini
Chair Organising Committee
on behalf of

ESNM Members:
Inge Depoortere, David Grundy, Magnus Simrén, André Smout

ANMS Members:
Lin Chang, Satish Rao, Kenton Sanders, Terez Shea-Donohue

LOCAL COMMITTEE Members:
Giovanni Barbara, Roberto De Giorgio
Host Organisers and Committees

**Hosting Societies**
ESNM – European Society for Neurogastroenterology and Motility
- [www.esnm.eu](http://www.esnm.eu)

ANMS – American Neurogastroenterology and Motility Society
- [www.motilitysociety.org](http://www.motilitysociety.org)

Endorsed by

**ESNM Secretariat**
Wickenburggasse 1
A-1080 Vienna, AUSTRIA
Phone: +43 – 1 – 997 16 39
Fax: +43 – 4 – 997 16 39-10
Email: info@esnm.eu

**ANMS Secretariat**
45685 Harmony Lane
Belleville, MI 48111, USA
Phone: +1 – 734 – 699 1130
Fax: +1 – 734 – 699 1136
Email: admin@motilitysociety.org

**Congress and Exhibition/Sponsor Office**

CPO HANSER SERVICE GmbH
Paulsborner Str. 44
14193 Berlin, GERMANY
Phone: +49 – 30 – 300 669 0
Fax: +49 – 30 – 305 73 91
Email: ngm2012@cpo-hanser.de
- [www.cpo-hanser.de](http://www.cpo-hanser.de)

**Congress Venue**
Nuovo Polo Congressuale
Palazzo dei Congressi and Sala Maggiore
Piazza della Costituzione N°4/a
40128 Bologna, ITALY
- [www.bolognacongressi.it](http://www.bolognacongressi.it)

**NGM 2012 Programme Committee**

**ESNM Members:**
- Chair: Vincenzo Stanghellini, Italy
- Inge Depoortere, Belgium
- David Grundy, United Kingdom
- Magnus Simrén, Sweden
- André Smout, The Netherlands

**ANMS Members:**
- Lin Chang, USA
- Satish Rao, USA
- Kenton Sanders, USA
- Terez Shea-Donohue, USA

**Local Committee Members:**
- Giovanni Barbara, Italy
- Roberto De Giorgio, Italy

**ESNM Steering Committee**
- President: Fernando Azpiroz, Spain
- Treasurer: Paul Enck, Germany
- Councillors:
  - Benoit Coffin, France
  - Inge Depoortere, Belgium
  - Dan Dumitrascu, Romania
  - Mark Fox, United Kingdom
  - Marcel Jimenez, Spain
  - Beate Niesler, Germany
  - Luis Novais, Portugal
  - Magnus Simrén, Sweden
  - André Smout, The Netherlands
  - Vincenzo Stanghellini, Italy

**ANMS Steering Committee**
- President: Satish Rao, USA
- President-Elect: Lin Chang, USA
- Treasurer: John W. Wiley, USA
- Secretary: Carlo DiLorenzo, USA
- Councillors:
  - Anthony J.M. Bauer, USA
  - Adil Bharucha, USA
  - Jiande Chen, USA
  - James J. Galligan, USA
  - Beverly Greenwood-Van Meerveld, USA
  - Margaret Heitkemper, USA
  - Gary M. Mawe, USA
  - Richard McCallum, USA
  - Bruce D. Naliboff, USA
  - Helen Raybould, USA
  - Reza Shaker, USA
  - Magnus Simrén, Sweden
  - Brennan Spiegel, USA
Abstract Awards
The ESNM and the ANMS offer a limited number of Abstract Awards consisting of a free registration and EUR 500 to support scientists to attend the congress. The awardees have been selected based on the abstract quality raised during the review. The award ceremony will take place during the congress dinner on Friday, 7 September 2012.

UEG e-learning
Selected lectures will be recorded and published at www.e-learning.ueg.eu.

CME Accreditation
The NGM Congress 2012 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS). The ‘Joint International Neurogastroenterology and Motility Meeting’ is designated for a maximum of (or ‘for up to’) 15 hours of European external CME credits.

Each medical specialist should claim only those credits that he/she actually spent in the educational activity. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMAcredit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

The following points are given for each congress day:

<table>
<thead>
<tr>
<th>CME points</th>
<th>Full day</th>
<th>Half day</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 September 2012</td>
<td>6 points</td>
<td>3 points</td>
</tr>
<tr>
<td>7 September 2012</td>
<td>6 points</td>
<td>3 points</td>
</tr>
<tr>
<td>8 September 2012</td>
<td>6 points</td>
<td>3 points</td>
</tr>
</tbody>
</table>

Participants interested in obtaining EACCME credits may contact the staff at the registration counter on the last day of attendance in order to receive a printed copy of their accreditation certificate.

Information for Italian Delegates
FISMAD – The Italian Federation of Digestive Diseases Societies
c/o GRUPPO SC Studio Congressi – Servizi per la Comunicazione
Via Napoleone Colajanni, 4
00191 Rome, ITALY
Phone: +39 – 06 – 3290250
Fax: +39 – 06 – 36306897
www.grupposc.com

Visit the technical exhibition on level 1 of Sala Maggiore:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Friday</td>
<td>7 September 2012</td>
<td>09:00 – 18:00</td>
</tr>
<tr>
<td>Saturday</td>
<td>8 September 2012</td>
<td>09:00 – 18:00</td>
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</tbody>
</table>
The mission of the European Society for Neurogastroenterology & Motility is to defend the interests of all professionals in Europe involved in the study of neurobiology and pathophysiology of gastrointestinal function.

AIMS OF ESNM ARE
* To expand knowledge and interest in the field of neurogastroenterology and motility
* To educate the younger generation of physicians in basic and clinical aspects in the field
* To promote science and educational activities such as symposia, e-learning, and technical courses
* To encourage basic and clinical research in the field of neurogastroenterology and motility
* To establish the standards for good clinical practice and patient care

info@esnm.eu  www.esnm.eu
The congress venue consists of two buildings: The Sala Maggiore with the technical exhibition, poster exhibition, congress registration and lecture hall Sala Magenta on the 2nd level and the Palazzo dei Congressi with the main lecture halls Europauditorium and Sala Italia.

Level 0: Registration Area
Level 1: Exhibition
Catering
Level 2: Sala Magenta (Session Room)
Poster Exhibition
### Programme Overview – Thursday, 6 September 2012

**Abbreviations**

<table>
<thead>
<tr>
<th>L</th>
<th>WS</th>
<th>OP</th>
<th>PS</th>
<th>IG</th>
<th>SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>Workshops</td>
<td>Oral Presentations</td>
<td>Poster Sessions</td>
<td>Interest Groups</td>
<td>Satellite Symposia</td>
</tr>
</tbody>
</table>

<p>| 11:00 – 20:00 | Registration on ground level of Sala Maggiore |
| 14:00 |  |
| 15:00 | <strong>WS-03</strong> Stress mechanisms in GI functional and motility disorders |
| 16:00 | <strong>WS-14</strong> Global and cross-cultural perspectives in FGID |
| 16:00 | <strong>WS-02</strong> Controverses in smooth muscle electrophysiology |
| 16:00 | Coffee Break |
| 17:00 | <strong>OP-01</strong> Sensory afferents and pain mechanisms in the GI tract |
| 18:00 | <strong>OP-02</strong> Functional GI disorders |
| 18:00 | <strong>OP-03</strong> Interstitial cells of Cajal |
| 19:00 | <strong>SA-01</strong> Thinking differently: Neuro-gastroenterological perspectives in chronic constipation /// Shire Symposium |
| 20:00 | <strong>Opening Ceremony followed by L-00 The future of (Neuro) Gastroenterology</strong> |
| 20:30 – 22:00 | Welcome Reception at the Europa Foyer in front of the Europauditorium |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Europauditorium</th>
<th>Sala Italia</th>
<th>Sala Magenta</th>
<th>Foyer</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td></td>
<td>IG-01 Rome Foundation</td>
<td>IG-02 Best of LBBB 2012</td>
<td>06:30 – 19:30 Registration on ground level of Sala Maggiore</td>
</tr>
<tr>
<td>8:00</td>
<td></td>
<td>L-01 Advances in clinical research</td>
<td></td>
<td>09:00 – 18:00 Exhibition and posters on level 1+2 of Sala Maggiore</td>
</tr>
<tr>
<td>9:00</td>
<td></td>
<td>L-02 Advances in basic research</td>
<td></td>
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<tr>
<td>10:00</td>
<td></td>
<td>OP-04 Clinical plenary session</td>
<td></td>
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<tr>
<td>11:00</td>
<td></td>
<td>L-03 Neural mechanism of visceral sensation</td>
<td>Coffee Break</td>
<td></td>
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<tr>
<td>12:00</td>
<td></td>
<td>OP-05 Basic and translational plenary session</td>
<td></td>
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<tr>
<td>13:00</td>
<td></td>
<td></td>
<td>Poster Sessions/Lunch Break PS-01 – PS-17</td>
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<tr>
<td>14:00</td>
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<tr>
<td>15:00</td>
<td></td>
<td>WS-01 Marcello Tonini contribution to the study of the intestinal peristalsis</td>
<td>WS-12 Shortcomings and promises of current and future therapies</td>
<td>WS-13 Molecular and environmental factors in enteric neuropathies</td>
</tr>
<tr>
<td>16:00</td>
<td></td>
<td></td>
<td>Coffee Break</td>
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<tr>
<td>17:00</td>
<td></td>
<td>OP-06 Pharmacotherapy, pharmacology and alternative therapies</td>
<td>OP-07 Esophageal physiology and pathophysiology</td>
<td>OP-08 Dietary factors, obesity, hormones and receptors</td>
</tr>
<tr>
<td>18:00</td>
<td></td>
<td>WS-07 Immune-nerve interactions</td>
<td>WS-09 Esophageal and swallowing disorders</td>
<td>WS-08 Rise and fall of the enteric nervous system</td>
</tr>
<tr>
<td>19:00</td>
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<tr>
<td>20:15</td>
<td></td>
<td></td>
<td>Visit of Bologna University Museum</td>
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<tr>
<td>21:15</td>
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<tr>
<td>21:00</td>
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<td></td>
<td>Congress Dinner at Palazzo Re Enzo</td>
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<td>24:00</td>
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</tbody>
</table>
## Programme Overview – Saturday, 8 September 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Europauditorium</th>
<th>Sala Italia</th>
<th>Sala Magenta</th>
<th>Foyer</th>
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<tbody>
<tr>
<td>7:00</td>
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<td>8:00</td>
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<td>9:00</td>
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<tr>
<td>10:00</td>
<td>OP-09 Barrier function and neuro-immune interactions</td>
<td>OP-10 IBS microenvironmental factors</td>
<td>OP-11 ENS and Glia: Physiology and pathophysiology</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>SA-03 Identifying the IBS patient with bile acid malabsorption and diarrhoea – Optimising patient care through accurate and timely diagnosis // GE Healthcare</td>
<td>SA-02 Gut microbiome-brain axis // Danone</td>
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<td>12:00</td>
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<td>13:00</td>
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<td>14:00</td>
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<tr>
<td>15:00</td>
<td>WS-06 Nutrient sensing and endocrine function in the GI tract</td>
<td>WS-04 Advances in structural biology, pathophysiology and diagnosis of the anorectum</td>
<td>WS-05 Pain mechanisms</td>
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<td>16:00</td>
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<tr>
<td>17:00</td>
<td>OP-12 Colonic intestinal and anorectal dysfunction</td>
<td>OP-13 Psychological factors and stress, human studies</td>
<td>OP-14 CNS and the brain-gut axis</td>
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<td>18:00</td>
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<tr>
<td>19:00</td>
<td>WS-15 Pediatric Neurogastro-enterology</td>
<td>WS-11 Peripheral mechanisms of IBS</td>
<td>WS-10 Moving beyond nerves and muscle</td>
<td></td>
</tr>
</tbody>
</table>
Save the Date
Huntington Beach, California
September 20–22, 2013

8th Postgraduate Course on
GI Motility & Neurogastroenterology in Clinical Practice
and 17th Neurogastroenterology & Motility Scientific Meeting

Highlights
State-of-the-art lectures on diagnosis and management of motility disorders

Tripuraneni Oration
Managing the Challenges of the Future: Lessons from Global Health
Tadakata Yamada
Executive Vice-President, Chief Medical and Scientific Officer, and Board Member
Takeda Pharmaceuticals

Workshops
Theme-based symposia
Scientific presentations

Abstract Deadline • March 15, 2013

More information • www.motilitysociety.org

This educational activity is co-provided/co-sponsored by American Neurogastroenterology and Motility Society and University of Kansas Medical Center Continuing Education.
**WS-03 Workshop**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>Stress mechanisms in GI functional and motility disorders</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: L. Bueno, France E. Mayer, USA</td>
</tr>
<tr>
<td>14:30</td>
<td>Epidemiology of acute and chronic stress on upper and lower FGID</td>
</tr>
<tr>
<td></td>
<td>L. van Oudenhove, Belgium</td>
</tr>
<tr>
<td>14:50</td>
<td>Neurobiological mechanisms of stress and emotions in FGID</td>
</tr>
<tr>
<td></td>
<td>E. A. Mayer, USA</td>
</tr>
<tr>
<td>15:10</td>
<td>Molecular mediators of stress in FGID</td>
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<tr>
<td></td>
<td>Y. Taché, USA</td>
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<tr>
<td>15:30</td>
<td>Molecular basis of the relationship between early life stress and FGID</td>
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<td></td>
<td>J. Cryan, Ireland</td>
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</table>

**WS-02 Workshop**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>Controversies in smooth muscle electrophysiology</strong></td>
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<tr>
<td></td>
<td>Chairs: J. Chen, USA J. Szurszewski, USA</td>
</tr>
<tr>
<td>14:30</td>
<td>Introductory and historical notes</td>
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<tr>
<td></td>
<td>J. Szurszewski, USA</td>
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<tr>
<td>14:40</td>
<td>Fact</td>
</tr>
<tr>
<td></td>
<td>G. O’Grady, New Zealand</td>
</tr>
<tr>
<td>15:00</td>
<td>Artifact</td>
</tr>
<tr>
<td></td>
<td>K. Sanders, O. Bayguinov, G. Hennig, S. Ward, USA</td>
</tr>
<tr>
<td>15:20</td>
<td>Electrogastrography: Is it valid?</td>
</tr>
<tr>
<td></td>
<td>A. Smout, The Netherlands</td>
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<tr>
<td>15:35</td>
<td>Discussion</td>
</tr>
<tr>
<td>15:55</td>
<td>Concluding remarks</td>
</tr>
<tr>
<td></td>
<td>J. Szurszewski, USA</td>
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</tbody>
</table>

**WS-14 Workshop**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>Global and cross-cultural perspectives in FGID</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: E. Quigley, Ireland N. Talley, Australia</td>
</tr>
<tr>
<td>14:30</td>
<td>Ethno-cultural and socio-economic perspectives of Irritable Bowel Syndrome (IBS) in Asia</td>
</tr>
<tr>
<td></td>
<td>K-A Gwee, Singapore</td>
</tr>
<tr>
<td>14:50</td>
<td>Latin-America</td>
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<tr>
<td></td>
<td>M. Schmulson, Mexico</td>
</tr>
<tr>
<td>15:10</td>
<td>Middle East</td>
</tr>
<tr>
<td></td>
<td>A. Sperber, Israel</td>
</tr>
<tr>
<td>15:30</td>
<td>Rest of the World – A global perspective</td>
</tr>
<tr>
<td></td>
<td>N. Talley, Australia</td>
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</tbody>
</table>

**OP-01 Oral Presentation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>16:30</td>
<td><strong>Sensory afferents and pain mechanisms in the GI tract</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: F. Azpiroz, Spain S. Vanner, Canada</td>
</tr>
<tr>
<td>16:30</td>
<td>Acid sensitivity in the spinal DRG nociceptors innervating the esophagus</td>
</tr>
<tr>
<td></td>
<td>M. Kollarik, F. Ru, S. Grobarcikova, USA</td>
</tr>
<tr>
<td>16:45</td>
<td>A novel technique to retrogradely label and record from nociceptive nerve endings that detect noxious stimuli from specific targets sites in the gastrointestinal tract</td>
</tr>
<tr>
<td></td>
<td>N. Spencer, L. Travis, M. Kyloh, Australia</td>
</tr>
<tr>
<td>17:00</td>
<td>P2Y mediated activation of mouse and human sensory nerves: Critical role for Nav1.9</td>
</tr>
<tr>
<td></td>
<td>J. Hockley, C. McGuire, G. Boundouki, C. Knowles, M. Baker, W. Winchester, D. Bulmer, United Kingdom</td>
</tr>
</tbody>
</table>
Thursday, 6 September 2012 – Scientific Programme

004 17:15 Functional evidence of ascending excitatory pathways in the human colon
S. Carbone, P. Dinning, N. Spencer, S. Brookes, D. Wattchow, Australia

005 17:30 Cortical brain activation in anticipation of somatic pain in symptomatic diverticular disease
J. Smith, L. Marciani, D. Humes, J. Scholefield, P. Gowland, S. Francis, R. Spiller, United Kingdom

OP-02 Oral Presentation
16:30–17:45 Sala Italia

Functional GI disorders
Chairs: G. Corazza, Italy
J. Tack, Belgium

001 16:30 Correlates of temporal variability of symptoms in gastroparesis

002 16:45 Reconfiguring the Gastroparesis Cardinal Symptom Index (GCSI)

003 17:00 Gastrointestinal symptoms in the joint hypermobility syndrome
A. Fikree, R. Akhtar, R. Grahame, Q. Aziz, United Kingdom

004 17:15 Symptom severity of functional constipation is associated to work productivity costs: A nationwide Italian survey
L. Neri, G. Basilisco, E. S. Corazziari, V. Stanghellini, R. Cuomo, Italy

005 17:30 Isolated intestinal transplant for CIPO on adults: Long term outcome from single center series
C. Zanfi, S. Pellegrini, A. Lauro, G. Ercolani, M. Cescon, M. Del Gaudio, M. Ravaiolli, A. Cucchetti, A. Dazzi, V. Stanghellini, L. Pironi, A. D. Pinna, Italy

OP-03 Oral Presentation
16:30–17:45 Sala Magenta

Interstitial cells of Cajal
Chairs: M. Faussone Pellegrini, Italy
S. Ward, USA

001 16:30 Genome-wide discovery of gene isoforms expressed in interstitial cells of Cajal
S. Ro, C. Park, N. Gilding, R. Berent, S. Choe, T. Yu, H. Syn, K. Sanders, USA

002 16:45 Interstitial Cells of Cajal (ICC) mediate excitatory neurotransmission in vivo
S. Klein, B. Seidler, M. Rohn, M. Schemann, A. Sibaev, M. Strorr, R. M. Schmid, G. Schneider, D. Saur, Germany

003 17:00 Nitrergic relaxation via ICC, FLC and SMC: Studies in mice lacking NO-sensitive guanylyl cyclase
A. Friebe, P. König, B. Lies, D. Groneberg, Germany

004 17:15 Hyperplasia of gastric Interstitial Cells of Cajal (ICC) and ICC Stem Cells (ICC-SC) in obese diabetic Lepr(db/db) mice without Gastroparesis
T. Ordog, H. Yujiro, M. Bardsley, Y. Toyomasu, J. Mason, D. Linden, J. Szurszewski, G. Farrugia, USA

005 17:30 Establishment of pacemaker activity in tissues allotransplanted with interstitial cells of Cajal
S. Ward, C. McCann, S.-J. Hwang, Y. Bayguinov, K. Sanders, USA

Selected lectures will be recorded and published at www.e-learning.ueg.eu
Scientific Programme – Thursday, 6 September 2012

**SA-01 Satellite Symposium**

18:00 – 19:30 Sala Italia

Thinking differently: Neurogastroenterological perspectives in chronic constipation

Chairs: E. Corazziari, Italy
      C. Scarpignato, Italy

001 18:00 Welcome and introduction
     C. Scarpignato, Italy

002 18:10 Burden of chronic constipation
     E. Corazziari, Italy

003 18:30 Pathophysiology of constipation
     M. Camilleri, USA

004 18:50 Chronic constipation: Current treatments and future perspectives
     C. Scarpignato, Italy

005 19:10 Questions from the audience and panel discussion
     C. Scarpignato, Italy

006 19:25 Closing remarks
     E. Corazziari, Italy

A Shire organised and sponsored symposium.

**L-00 Plenary Lecture**

19:45 – 20:30 Europauditorium

19:45 Opening Ceremony

The future of (Neuro)Gastroenterology

Chair: V. Stanghellini, Italy

001 20:00 Introduction
     V. Stanghellini, Italy

002 20:05 A look into the future of (Neuro) Gastroenterology
     J. Malagelada, Spain

Followed by a Welcome Reception at the Europa Foyer in front of the Europauditorium.

Visit the poster exhibition on the 2nd level of Sala Maggiore in the foyer of Sala Magenta:

**Poster exhibition times**

Friday, 7 September 2012
09:00 – 18:00

Saturday, 8 September 2012
09:00 – 18:00

**Poster presentation times**

Friday, 7 September 2012
12:30 – 14:30

Saturday, 8 September 2012
12:30 – 14:30

Authors are present at their posters
Friday, 7 September 2012 – Scientific Programme

IG-01 Interest Group
07:00–08:00 Sala Italia
Rome Foundation

IG-02 Interest Group
07:00–08:00 Sala Magenta
Best of Little Brain Big Brain (LBBB) 2012
Chairs: W. Boesmans, United Kingdom
R. Farré, Belgium
P. Janssen, Belgium
L. van Oudenhove, Belgium

L-01/L-02 Plenary Lecture
08:15–09:15 Europauditorium
Advances in Basic and Clinical Research
Chairs: R. Corinaldesi, Italy
M. Costa, Australia
001 08:15 Advances in Clinical Research
M. Simrén, Sweden
002 08:45 Advances in Basic Research
G. Farrugia, USA

L-03 Plenary Lecture
10:15–10:45 Europauditorium
Neural mechanisms of visceral sensation
Chairs: M. Camilleri, USA
R. Spiller, United Kingdom
001 10:15 Neural mechanisms of visceral sensation
S. Brookes, Australia

OP-04 Oral Presentation
09:15–10:15 Europauditorium
Clinical Plenary Session
Chairs: M. Camilleri, USA
R. Spiller, United Kingdom
001 09:15 Fear conditioning in an abdominal pain model: Neural mechanisms of associative learning and extinction in healthy subjects
S. Eisenbruch, J. Kattoor, S. Hofmann, V. Kotsis, S. Benson, C. Gramsch, N. Theysohn, E. Gizewski, Germany
002 09:30 Randomized trial of gluten-free diet in IBS-Diarrhea: Effect on small bowel and colonic morphology and barrier function

003 09:45 Relationship between 5-HT system polymorphisms, anxiety, depression and stressful life events in functional gastrointestinal disorders
B. Niesler, C. Hammer, G. Sayuk, L. van Oudenhove, Germany

004 10:00 Investigation of the afferent anorectal-brain neuromuscular axis in Irritable Bowel Syndrome (IBS) and Interstitial Cystitis (IC)
E. Coss-Adame, J. Valestin, C. Bradley, K. Kreder, S. Rao, USA

OP-05 Oral Presentation
11:00–12:30 Europauditorium
Basic and translational plenary session
Chairs: J. Galligan, USA
M. Simrén, Sweden
001 11:00 TNF-alpha from gut homing memory T cells and monocytes sensitises colonic sensory afferents in IBS-D
002 11:15 Duodenal low-grade inflammation and impaired mucosal integrity in functional dyspepsia patients

Selected lectures will be recorded and published at www.e-learning.ueg.eu
Selected lectures will be recorded and published at www.e-learning.ueg.eu

Scientific Programme – Friday, 7 September 2012

003
11:30 Identification of genetic risk factors associated with idiopathic achalasia by a genetic candidate study

004
11:45 Mechanosensitive properties of isolated enteric neuronal networks
E. Kugler, F. Zeller, M. Schemann, G. Mazzuoli, Germany

005
12:00 Impaired gastrointestinal function caused by early defects in the wiring of the enteric nervous system
W. Boesmans, V. Sasselli, P. van den Berghe, V. Pachnis, United Kingdom

006
12:15 Obesity induced suppression of gastric satiety signals are only partially reversed by dietary change
A. Page, S. Kentish, T. O’Donnell, G. Wittert, Australia

WS-01 Workshop
14:30 – 16:00 Europauditorium
Marcello Tonini contribution to the study of the intestinal peristalsis
Chairs: M. Costa, Australia
M. Schemann, Germany

001
14:30 Contributions of Marcello Tonini to the study of peristalsis
M. Costa, Australia

002
14:50 Mechanisms of motor pattern in the colon
T. Smith, USA

003
15:10 What mediators are important in peristalsis
N. Spencer, Australia

004
15:30 Remodelling of peristalsis in inflammation
G. Mawe, USA

WS-12 Workshop
14:30 – 16:00 Sala Italia
Shortcomings and promises of current and future therapies
Chairs: E. Corazziari, Italy
R. Spiller, United Kingdom

001
14:30 Gastro-esophageal reflux disease
P. Kahrilas, USA

002
14:50 Functional dyspepsia
J. Tack, Belgium

003
15:10 Irritable Bowel Syndrome
M. Camilleri, USA

004
15:30 Functional constipation
W. Chey, USA

WS-13 Workshop
14:30 – 16:00 Sala Magenta
Molecular and environmental factors in enteric neurophaties
Chairs: R. De Giorgio, Italy
J. Wiley, USA

001
14:30 Genetics of human enteric neurophaties
N. Thapar, United Kingdom

002
14:50 Epigenetic regulation in GI neuromuscular function
J. Wiley, USA

003
15:10 GI involvement in CNS disorders
P. Derkinderen, France

004
15:30 A new classification for GI neuromuscular disorders
C. Knowles, United Kingdom
### OP-06 Oral Presentation

**16:30 – 17:45** Europauditorium  
**Pharmacotheraphy, pharmacology and alternative therapies**  
**Chairs:** W. Chey, USA  
C. Scarpignato, Italy

**001 16:30** Ursodeoxycholic acid (UDCA) protects gallbladder smooth muscle function via activation of the PI3K-Akt signaling pathway  
B. Lavoie, S. Spohn, A. C. Bartoo, O. B. Balemba, G. M. Mawe, USA

**002 16:45** Guanylate cyclase C receptor agonists, linaclotide and uroguanylin, modulate intestinal nociception  
S. Brierley, J. Castro, A. Harrington, P. Hughes, C. Martin, A. Silos-Santiago, C. Kurtz, A. Blackshaw, Australia

**003 17:00** Does biofeedback therapy improve brain-gut axis in dyssynergic defecation?  
E. Coss-Adame, S. Rao, J. Remes-Troche, A. Attaluri, J. Valestin, K. Tantiphlachiva, S. Hamdy, USA

**004 17:15** Improvement in abdominal symptoms rated as most severe by patients with Irritable Bowel Syndrome with Constipation (IBS-C): Results from two phase 3 trials of linaclotide  
S. Rao, E. Quigley, S. Shiff, B. Lavins, C. Kurtz, H. Schneier, M. Currie, J. Johnston, USA

**005 17:30** The effect of liraglutide on Gastric Accommodation (GA) and Gastric Emptying (GE) in conscious rats  
A. Rotondo, S. Verchueren, J. Tack, Italy

### OP-07 Oral Presentation

**16:30 – 17:45** Sala Italia  
**Esophageal physiology and pathophysiology**  
**Chairs:** R. Penagini, Italy  
D. Sifrim, United Kingdom

**001 16:30** Long-term sustainable symptom-free duration in Achalasia patients treated with pneumatic dilatation – A 42-year experience  
M. Al-Beshir, M. Li, N. Diamant, L. Liu, Canada

**002 16:45** Three-dimensional volume of inverted impedance (3D-VII): A novel method to measure bolus transit using high-resolution impedance manometry  

**003 17:00** Esophageal wall ischemia during esophageal contraction and transient lower esophageal sphincter relaxation in humans  
R. K. Mittal, V. Bhargava, Y.-S. Kim, Y. Jiang USA

**004 17:15** Alterations in esophageal motility post-lung transplantation  
Y. Nasser, M. Thakrar, D. Helmersen, M. Storr, C. Andrews, Canada

**005 17:30** Impact of deep brain stimulation on oesophageal motility: Result of a randomized cross-over study  
### Scientific Programme – Friday, 7 September 2012

#### OP-08 Oral Presentation

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>16:30</td>
<td><strong>Dietary factors, obesity, GI hormones and receptors</strong></td>
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<td><strong>Chairs:</strong> R. Cuomo, Italy</td>
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<td>B. Spiegel, USA</td>
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<td>001</td>
<td><strong>16:30</strong> Loss of intestinal sweet taste receptor control in type 2 diabetes: A risk factor for postprandial hyperglycemia?</td>
<td>R. Young, B. Chia, T. Wu, H. Michael, C. Rayner, Australia</td>
</tr>
<tr>
<td>002</td>
<td><strong>16:45</strong> The serotonin transporter (SERT) critically modulates serotonergic signaling in intestinal inflammation and motility: Effects of a gain-of-function mutation in SERT</td>
<td>K. Gross Margolis, Z. S. Li, K. Stevanovic, R. Blakely, J. Veenstra-Vanderweele, Q. M. Yang, B. Zambrowicz, T. Oravecz, M. Gershon, USA</td>
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<td>003</td>
<td><strong>17:00</strong> Comparative effects of intraduodenal lipid and protein on pyloric pressures, gut hormones, blood glucose and insulin and energy intake in healthy males</td>
<td>C. Feinle-Bisset, A. Ryan, N. Luscombe-Marsh, A. Saies, M. Horowitz, S. Standfield, Australia</td>
</tr>
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<td>004</td>
<td><strong>17:15</strong> Obesity causes a switch in the origin of phase III contractions of the migrating motor complex to reduce hunger feelings</td>
<td>E. Deloose, P. Janssen, M. Lannoo, B. v. der Schueren, I. Depoortere, J. Tack, Belgium</td>
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<td>005</td>
<td><strong>17:30</strong> Diet-induced obesity alters nerochemical code in enteric glial cells and injures enteric plexuses causing intestinal dysfunctions</td>
<td>P. Brun, M. C. Giron, M. Quesari, L. Spagnol, D. Pizzuti, G. Palù, I. Castagliuolo, Italy</td>
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#### WS-07 Workshop

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<tr>
<td>18:00</td>
<td><strong>Immune-nerve interactions</strong></td>
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<td><strong>Chairs:</strong> G. Barbara, Italy</td>
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<td>N. Vergnonelle, France</td>
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<td>001</td>
<td><strong>18:00</strong> Immune modulation of visceral afferents</td>
<td>D. Grundy, United Kingdom</td>
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<td>002</td>
<td><strong>18:20</strong> Immune modulation of the ENS</td>
<td>M. Schemann, Germany</td>
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<td>003</td>
<td><strong>18:40</strong> Effects of ischemia / reperfusion on the enteric nervous system and intestine</td>
<td>J. Furness, Australia</td>
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<td>004</td>
<td><strong>19:00</strong> Neuro-immune mechanisms: A translational view</td>
<td>G. Boeckxstaens, Belgium</td>
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#### WS-09 Workshop

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<th>Time</th>
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<tr>
<td>18:00</td>
<td><strong>Esophageal and swallowing disorders</strong></td>
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<td><strong>Chairs:</strong> M. Fox, United Kingdom</td>
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<td>P. Kahrilas, USA</td>
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<td>001</td>
<td><strong>18:00</strong> Swallowing-brain network in health and disease</td>
<td>R. Shaker, USA</td>
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<td>002</td>
<td><strong>18:20</strong> Transcranial magnetic stimulation – A diagnostic and therapeutic tool in swallowing disorders</td>
<td>S. Hamdy, United Kingdom</td>
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<td>003</td>
<td><strong>18:40</strong> Newer understanding of EUS function with high resolution manometry</td>
<td>I. Cook, Australia</td>
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<td>004</td>
<td><strong>19:00</strong> Neonatal development of swallowing function &amp; reflexes</td>
<td>S. Jadcherla, USA</td>
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#### WS-08 Workshop

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<tr>
<td>18:00</td>
<td><strong>Rise and fall of the enteric nervous system</strong></td>
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<td><strong>Chairs:</strong> J. Bornstein, Australia</td>
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<td>P. Pasricha, USA</td>
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<td>001</td>
<td><strong>18:00</strong> Neuronal control of enteric neuronal development: Early neuronal activity sculpts subsequent Enteric Nervous System (ENS) development</td>
<td>M. D. Gershon, USA</td>
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<td>002</td>
<td><strong>18:20</strong> Development and degeneration of specific subsets of enteric neurons</td>
<td>H. Young, Australia</td>
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<td>003</td>
<td><strong>18:40</strong> Ongoing development of the ENS</td>
<td>A. Burns, United Kingdom</td>
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<td>004</td>
<td><strong>19:00</strong> Enteric neurodegeneration in diabetes and obesity</td>
<td>S. Srinivasan, USA</td>
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Saturday, 8 September 2012 – Scientific Programme

IG-03 Interest Group
07:00–08:00 Sala Italia
Interstitial cells of Cajal (ICC)

IG-04 Interest Group
07:00–08:00 Sala Magenta
New diagnostic techniques

OP-09 Oral Presentation
09:15–10:45 Europauditorium
Barrier function and neuro-immune interactions
Chairs: P. Vanden Berghe, Belgium
N. Vergnolle, France
001 09:15 Impaired intestinal barrier function precedes mucosal inflammation and myenteric ganglionitis in the BB-rat

002 09:30 PAR1 receptors mediate nerve activation by mucosal biopsy supernatants from Irritable Bowel Syndrome (IBS) but not from Ulcerative Colitis (UC) patients
S. Bühner, K. Hartwig, Q. Li, S. Vignali, C. Pehl, T. Frieling, G. Barbara, G. Boeckxstaens, I. E. Demir, M. Schemann, Germany

003 09:45 Interleukin-6 receptor blockade mitigates late murine TLR4-triggered ileus but does not prevent endotoxin-associated mortality
B. Buchholz, R. S. Chanthaphavong, T. R. Billiar, A. J. Bauer, Germany

004 10:00 Inflammation induces modulation of contractile phenotype in human colonic smooth muscle
A. Scirocco, C. Petitta, P. Matarrese, B. Ascione, G. D. Natale, W. Malorni, E. Corazziari, C. Severi, Italy

10:15 Effects of colonic mucosal soluble factors on the enteric nervous system phenotype in Crohn’s Disease and ulcerative colitis
A. Bourreille, F. Soufflet, M. Biraud, B. Lardeux, M. Derkinderen, M. Le Rhun, E. Coron, M. Neunlist, France

10:30 Free radical scavengers rescue decreased purinergic neuromuscular transmission in the inflamed colon
J. Roberts, L. Durnin, K. Sharkey, V. Mutafova-Yambolieva, G. Mawe, USA

OP-10 Oral Presentation
09:15–10:45 Sala Italia
IBS microenvironmental factors
Chairs: G. Boeckxstaens, Belgium
R. Spiller, United Kingdom
001 09:15 Transfer of IBS phenotype to GERM-free mice through microbiota transplantation

002 09:30 The serotonin precursor 5-hydroxytryptophan induces rectal hyperalgesia in patients with Irritable Bowel Syndrome (IBS)
D. Keszthelyi, F. Troost, D. Jonkers, J. Dekker, A. Masclee, The Netherlands

003 09:45 Mucosal biopsy supernatants from patients with systemic mastocytosis and IBS with or without mast cell mediator syndrome have different enteric nerve activating potential
S. Vignali, S. Buhnner, M. Schemann, T. Frieling, Germany

004 10:00 Elevated faecal serine proteases in Irritable Bowel Syndrome with Diarrhoea (IBS-D) correlate with whole gut transit
K. Garsed, G. Singh, D. Tooth, C. Lam, R. Spiller, United Kingdom

005 10:15 Postinfectious Irritable Bowel Syndrome (IBS): Follow-up at 16 year after a single outbreak of Salmonella gastroenteritis
C. Cremon, F. Pallotti, L. Bellacosa, E. Fogacci, M. M. Marcellini, R. De Giorgio, R. Corinaldesi, V. Stanghellini, G. Barbara, Italy

Selected lectures will be recorded and published at www.e-learning.ueg.eu
006 10:30 Clinically meaningful change benchmarks for IBS-C symptoms developed using data from two phase 3 trials of linaclotide

SA-03 Satellite Symposium
11:00–12:30 Europauditorium

Identifying and managing the IBS patient with bile acid malabsorption and diarrhoea
Chairs: E. Roda, Italy
J. Walters, United Kingdom

001 11:00 Welcome and introduction
E. Roda, Italy

002 11:05 Recognising and diagnosing bile acid diarrhoea (BAD)
J. Walters, United Kingdom

003 11:25 Management and treatment of BAD
K.-A. Ung, Sweden

004 11:45 The critical role of an accurate diagnosis
Case Study Session
Moderator: J. Walters, United Kingdom
Case presentation and panel members:
J. Guardiola, Spain and K.-A. Ung, Sweden

005 12:15 Panel discussion and questions from the floor
Moderator: J. Walters, United Kingdom

006 12:25 Summary and close
E. Roda, Italy

Meeting sponsored by GE Healthcare

ENS and Glia: Physiology and pathophysiology
Chairs: J. Furness, Australia
G. Mawe, USA

001 09:15 Myenteric serotonergic nerve pathways excite submucosal neurons but inhibit surrounding glial cells
T. Okamoto, B. MacKenzie, T. K. Smith, USA

002 09:30 Gial heterogeneity in the enteric nervous system
W. Boesmans, P. van den Berghe, V. Pachnis United Kingdom

003 09:45 Activated glia is a hallmark of neuropathy in pancreatic cancer
E. Tieftrunk, I. E. Demir, T. Kehl, H. Friess, G. O. Ceyhan, Germany

004 10:00 Evidence of RET/GDNF-related apolipoprotein B (APOB) activation and altered expression in patients with chronic intestinal pseudo-obstruction (CIPO)
F. Bianco, E. Bonora, R. Cogliandro, M. Vargiolo, F. Giancola, E. Boschetti, M. Seri, G. Barbara, R. Corinaldesi, V. Stanghellini, R. De Giorgio, Italy

005 10:15 Functional and quantitative characterization of submucosal neurons in patients with functional dyspepsia
C. Cirillo, T. Bessisow, H. Vanheel, J. Tack, P. Vanden Berghe, Belgium

006 10:30 Full-Field Optical Coherence Microscopy (FFOCM) is a novel technique for imaging enteric ganglia in the gastrointestinal tract
E. Coron, M. Neunlist, A. Pieretti, M. Mahé, E. Aukstorius, G. Tearney, A. Goldstein, France
Saturday, 8 September 2012 – Scientific Programme

**SA-02** Satellite Symposium

11:00 – 12:30 Sala Italia

**Gut microbiome-brain axis**
Chairs: F. Azpiroz, Spain  
P. Enck, Germany

001 Gut microbiota as an organ of the host?  
J. Dore, France

002 Effect on gut motility, permeability and sensitivity  
G. Barbara, Italy

003 Effect of gut microbiota on CNS and behavior: Implications for gut functional disorders  
P. Bercik, Canada

004 Crosstalk between gut microbiota and the human brain: Possible implications for GI symptoms  
E. Mayer, USA

Supported by an educational grant from Danone

**WS-04** Workshop

14:30 – 16:00 Sala Italia

**Advances in structural biology, pathophysiology and diagnosis of the anorectum**
Chairs: K. Bitar, USA  
P. Enck, Germany

001 14:30 Structure and function in neurogulation of the anorectum  
K. Keef, USA

002 14:50 Artificial anal sphincter: A biologic plausibility  
K. Bitar, USA

003 15:10 Pathophysiology of incontinence and dysynergic defecation  
A. Bharucha, USA

004 15:30 High definition 3-D anorectal manometry – How useful?  
S. Rao, USA

**WS-06** Workshop

14:30 – 16:00 Europauditorium

**Nutrient sensing and endocrine function in the GI tract**
Chairs: F. Gribble, United Kingdom  
A. Page, Australia

001 14:30 Taste receptors and signalling in the GI tract  
C. Sternini, USA

002 14:50 Nutrient sensing by enteroendocrine cells  
H. Raybould, USA

003 15:10 Metabolic effects of GI hormones  
I. Depoortere, Belgium

004 15:30 Therapeutic modulation of satiety  
J. Tack, Belgium

**WS-05** Workshop

14:30 – 16:00 Sala Magenta

**Pain mechanisms**
Chairs: B. Greenwood-Van Meerveld, USA  
D. Grundy, United Kingdom

001 14:30 Neural pathways of visceral pain  
J. Wood, United Kingdom

002 14:45 Peripheral mechanisms  
A. Blackshaw, United Kingdom

003 15:00 Peripheral mechanisms of visceral hyperalgesia  
N. Vergnolle, France

004 15:15 Central regulation of visceral perception  
Q. Aziz, United Kingdom

005 15:30 Genetics of visceral pain  
M. Camilleri, USA
Scientific Programme – Saturday, 8 September 2012

**OP-12  Oral Presentation**

16:30–17:45  Europauditorium

**Colonic GI and anorectal dysfunction**

Chairs: G. Bassotti, Italy
S. Rao, USA

001 16:30  Length-tension property of the external anal sphincter and puborectalis muscle dysfunction in fecal incontinence patients: Correlation with anatomical abnormalities
Y.-S. Kim, M. Ravinder, M. Weinstein, V. Raizada, Y. Jiang, V. Bhargava, People’s Republic of Korea

002 16:45  Rectal tone response after a high-caloric meal in patients with Irritable Bowel Syndrome (IBS) and healthy controls is influenced by rectal sensitivity
H. Tornblom, L. van Oudenhove, J. Tack, M. Simrén, Sweden

003 17:00  Colonic manometry demonstrates the mode of action of sacral nerve stimulation in patients with faecal incontinence
V. Patton, P. Dinning, D. Z. Lubowski, J. W. Arkwright, D. W. King, Australia

004 17:15  Characterization of Transient Anal Sphincter Relaxations (TASRs) in health using high resolution anorectal manometry: Redefining the sampling reflex?
E. V. Carrington, A. Hobson, C. Knowles, P. Lunniss, M. Scott, United Kingdom

005 17:30  Post-RAIR anal sphincter contractile response is impaired in fecal incontinence patients
E. Coss-Adame, S. Rao, USA

**OP-13  Oral Presentation**

16:30–17:45  Sala Italia

**Psychological factors and stress, human studies**

Chairs: L. Chang, USA
Y. Taché, USA

001 16:30  How positive and negative expectations shape the experience of visceral pain: An experimental pilot study in healthy women
S. Elsenbruch, J. Schmid, M. Bäsler, E. Cesko, M. Schedlowski, S. Benson, Germany

002 16:45  Psychophysiological markers and the brain processing of nausea in healthy humans using a novel virtual reality video

003 17:00  Anxiety, depression and somatization influence the time course of the postprandial symptom response in irritable bowel syndrome
L. van Oudenhove, H. Törnblom, S. Störsrud, J. Tack, M. Simrén, Belgium

004 17:15  Different responses to psychological stress in the rectal mucosa of patients with irritable bowel syndrome and healthy volunteers
L. Gerdin, S. Walter, Y. Braaf, M. Olsson, A.-C. Ericsson, J. D. Söderholm, Sweden

005 17:30  The effect of psychophysiological autonomic modulation on human esophageal pain hypersensitivity
C. Botha, C. Knowles, Q. Aziz, United Kingdom

**OP-14  Oral Presentation**

16:30–17:45  Sala Magenta

**CNS and the brain-gut axis**

Chairs: Q. Aziz, United Kingdom
A. Travagli, USA

001 16:30  Importance of histone acetylation in chronic hyperalgesia and anxiety-like behavior induced by elevated amygdala corticosteroids
L. Tran, J. Schulkin, B. Greenwood-Van Meerveld, USA

002 16:45  The role of Nav1.9 in the activation of visceral afferent fibres by human inflammatory supernatants
G. Boudouki, J. Hockley, C. McGuire, C. Knowles, Q. Aziz, M. Baker, D. Bulmer, United Kingdom

003 17:00  Sacral parasympathetic input to guinea-pig colorectum
S. Brookes, K. Hendy, J. Salvi, A. Wadey, P. Dinning, V. Zagorodnyuk, N. Spencer, Australia
17:15 The critical role of microbiota in the expression of altered behavior in mice subjected to maternal separation
G. De Palma, P. Blennerhassett, J. Lu, A. J. Park, V. Philip, W. Green, M. Silva, E. Verdu, S. Collins, P. Bercik, Canada

17:30 Corticotropin-releasing hormone is associated with exaggerated brain activity and pituitary-adrenal response during colorectal distention in IBS
Y. Tanaka, J. Morishita, M. Kano, M. Kanazawa, M. Tashiro, S. Fukudo, Japan

WS-15 Workshop
18:00 – 19:30 Europauditorium

Pediatric neurogastroenterology
Chairs: M. Benninga, The Netherlands
C. di Lorenzo, USA

001 18:00 Use of enteric nervous stem cells to treat motility disorders: Ready for prime time?
N. Thapar, United Kingdom

002 18:20 Microbial signatures in pediatric IBS and relationship to symptoms
R. Shulman, USA

003 18:40 Functional dyspepsia in children - New pathophysiology mechanisms and therapies
A. Staiano, Italy

004 19:00 What keeps children constipated
M. Benninga, The Netherlands

WS-11 Workshop
18:00 – 19:30 Sala Italia

Peripheral mechanisms of IBS
Chairs: L. Chang, USA
S. Collins, Canada

001 18:00 The putative role of the microbiome in Irritable Bowel Syndrome
S. Collins, Canada

002 18:20 Intestinal gas: Mechanisms of symptom perception
F. Azpiroz, Spain

003 18:40 Intestinal permeability
J. Söderholm, Sweden

004 19:00 Immune activation
R. Spiller, United Kingdom

WS-10 Workshop
18:00 – 19:30 Sala Magenta

Moving beyond nerves and muscle
Chairs: G. Farrugia, USA
J. Huizinga, Canada

001 18:00 Fibroblast-like cells in purinergic neurotransmission
S. Ward, USA

002 18:15 Spontaneous electrical activity of fibroblast-like cells
Y. Kito, Japan

003 18:30 Mast cells and macrophages
T. Shea-Donohue, USA

004 18:45 Development and plasticity of ICC
T. Ordog, USA

005 19:00 Blood-brain barrier of the little brain
M. Neunlist, France
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<td>M. Takaki, H. Kuniyasu, I. Kawahara, K. Goto, H. Matsuysishi, Japan</td>
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<td>G. Mazzuoli, M. Schemann, Germany</td>
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<td>Pancreatic cancer cells secrete CXCL12 which is chemoattractive upon peripheral neural glia: Reversal of a paradigm</td>
<td>I. E. Demir, K. Kujundzic, T. Kehl, H. Friess, G. O. Ceyhan, Germany</td>
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<td>Enteric glial cells from patients with Crohn’s Disease misreact to inflammation and induce intestinal epithelial cell permeability</td>
<td>M. Rolli-Derkinderen, T. Clairembault, S. Coquenlorge, B. Lardeux, J. Jaulin, M. Biraud, M. Neunlist, France</td>
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<td>S. Mwangi, B. Nezami, B. Obukwelu, M. Anitha, S. Marri, P. Fu, M. Shanmugam, S. Sitaraman, F. Anania, S. Srinivasan, USA</td>
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<td>M. Rolli-Derkinderen, I. Corre, R. Soret, M. Biraud, A. Bourseille, M. Neunlist, France</td>
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<td>R. Chiocchetti, C. Sorteni, O. Portnoy, R. Sirri, P. Clavenzani, O. Mordenti, A. Di Biase, A. Parmeggiani, R. De Giorgio, Italy</td>
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<td>Pain and neural remodelling in pancreatic neuropathy are characterized by increased unmyelinated nerve fiber content and selective glial activation</td>
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<td>Oxytocin hyperpolarizes cultured duodenum myenteric intrinsic primary afferent neurons by opening BKCa channels through IP3 pathway</td>
<td>C. Liu, T. Che, H. Sun, J. Li, W. Kunze, M. Zhang China, Canada</td>
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<td>C. Hagl, S. Heumüller, E. Wink, K. Kaiser, K.-H. Schäfer, Germany</td>
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<td>A D-galactose mouse model of dysmotility: Spatiotemporal motility mapping and intrinsic primary afferent neuron function</td>
<td>W. Kunze, Y.-K. Mao, Y. Wu, B. Wang, Canada</td>
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F. Turco, G. Sarnelli, I. Palumbo, T. Di Maio, A. D’Alessandro, R. Cuomo, Italy

020 Toxoplasma gondii increases the expression of S-100 and GFAP in rat colonic myenteric plexus

021 Effects of quercetin supplementation on the myenteric neurons HuC/HuD immunoreactive in ileum of diabetic rats
M. A. Defani, C. R. Moreira, F. Ferrari, A. M. Alves Pereira, E. P. Belato Alves, Brazil

022 Enteric neuronal function and colonic motility in PINK1-/- mice: A model for Parkinson’s Disease
P. Vanden Berghe, F. E. Martin Cano, M. Dondeyne, W. Boesmans, V. Morais, B. De Strooper, M. J. Pozo, Belgium, Spain

023 An unexpected role of the enteric nervous system on gastrointestinal smooth muscle differentiation
P. de Santa Barbara, S. Faure, J. McKey, A. Bourret, France

024 Histopathology of the severe effects induced by repeated cisplatin in rat digestive tissues
G. Vera Pasamontes, J. A. Uranga, M. I. Martin Fontelles, R. Abalo, Spain

026 Changes in colonic motility in a murine model of Alzheimer Disease
M. J. Pozo Andrada, F. E. Martin Cano, I. Morales, C. Camello, F. Barriga, M. C. Moreno, D. Hernandez, P. Camello, Spain

027 Cholera toxin has a sexually dimorphic effect on colonic migrating motor complexes in mice
J. Bornstein, G. Balasuriya, Australia

028 Nerve fibres containing enkephalin are reduced in colon from children with slow-transit constipation

029 Identification of different patterns of propagating motor activity in isolated human colon
T. C. Sia, M. Kyloh, N. Spencer, J. Arkwright, S. Brookes, D. Watchow, P. Dinning, Australia

030 Psychosocial chronic stress induces intestinal dysmotility and changes in enteric nervous system in proximal colon

031 Non-invasive fluorescence imaging of intestinal motility
S.-K. Kwon, C. Davies-Venn, E. Sevick-Muraca, USA

032 High-throughput motility mapping of the whole murine small intestine with analysis with autocorrelation
S. Parsons, J. Huizinga, Canada

033 SmoothRec: A poor man’s multiple channels recording system
W. Lammers, W. El Tahir, S. Dhanasekaran, M. Ljubisavljevic, United Arab Emirates

034 Angiotensin II positively modulates the spontaneous contractile activity of mouse and human colon via activation of AT1 receptors
R. Serio, M. Mastropaolo, M. Zizzo, F. Mule, Italy

035 γ-amino-butyric acid regulates submucosal cholinergic signalling and secretomotor function in mouse colon
K. Lomasney, J. Cryan, N. Hyland, Ireland

036 Microelectrode array analysis of spontaneous electric activity in the ileum of mice
S. Nakayama, M. Taniguchi, K. Sawamura, H. Shozib, Japan
### Basic and translational session: Appetite regulation, satiety, obesity and nutrition

**Discussants:** I. Depoortere, Belgium  
F. Gribble, United Kingdom  
H. Raybould, USA

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<td>Circadian variations in gastric vagal afferent mechanosensitivity and satiety signalling</td>
<td>S. Kentish, G. Wittert, E. Symonds, D. Kennaway, A. Page, Australia</td>
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<td>Peripheral Glucagon-like peptide 2 administration inhibits food intake in mice: Analysis of the mechanism of action</td>
<td>S. Baldassano, A. Bellanca, R. Serio, F. Mulè, Italy</td>
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<td>Evaluation of the effects of elsiglutide on the toxicity and histological damage induced by Irototecan in normal fischer rats</td>
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<td>Cardiac autonomic regulation and cortisol profiles during 48-hour zero-calorie fasting</td>
<td>P. Enck, N. Mazurak, F. Grau, A. Guenther, E. R. Muth, S. Zipfel, Germany</td>
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<td>I. Chirila, F. D. Petrariu, I. Ciortescu, C. Mihai, V. L. Drug, Romania</td>
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### Basic and translational session: Gastric physiology, pathophysiology

**Discussants:** M. Costa, Australia  
P. Pasricha, USA  
M. Schemann, Germany

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<td>In vitro and in vivo studies on the effects of oxytocin in a rat model of functional dyspepsia</td>
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<td>A biomagnetic technique to evaluate the effects of partial gastrectomy on gastric emptying and gastrointestinal transit time in rats</td>
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055  The influence of monosodium glutamate on the stability of gastric mucosa to the stress action in rats  
T. Falalyeyeva, I. Savchenko, T. Beregova, Ukraine

056  Transcranial direct current stimulation (TDCS) can modulate esophageal motility in gastroesophageal reflux disease (GERD) patients  
S. Vigneri, S. Bonventre, A. Inviati, F. Brighina, G. Cosentino, G. Giglia, P. Paladino, B. Fierro, Italy

057  Facilitation of cholinergic activity in human isolated stomach by metoclopramide and by the selective motilin receptor agonist GSK962040, but not by domperidone  
J. Broad, A. Goralczyk, G. Dukes, G. Sanger, United Kingdom, USA

058  A probiotic treatment attenuates Hypothalamic-Pituitary-Adrenal (HPA) axis response to chronic psychological stress through improvement of cellular proliferation and changes of gene expression in the brain  
A. Ait-Belgnaoui, A. Colon, V. Braniste, L. Ramalho, C. Cartier, C. Harkat, E. Houdeau, T. Tompkins, F. Durmont, V. Theodorou, France

059  Effect of erythromycin and sumatriptan on meal induced gastric accommodation and maximum nutrient tolerance assessed by a novel nutrient drink test  
E. Altan, S. Verschueren, A. Rotondo, P. Janssen, J. Tack, Belgium

060  Serotonin transporter gene influence on effectiveness of cognitive behavioral therapy for patients with Irritable Bowel Syndrome (IBS)  
M. Jarrett, K. Cain, R. Kohen, S.-E. Jun, K. Reading, M. Heitkemper, USA

061  Local transdermal delivery of phenylephrine using hollow microneedles as a treatment of fecal incontinence  

062  Granisetron prevents alterations of gastrointestinal motility in rats repeatedly treated with cisplatin: Radiographic study  
G. Vera Pasamontes, P. A. Cabezos, A. E. Lopez, M. I. Martin Fontelles, R. Abalo, Spain

063  Novel anti-inflammatory functions for the herbal drug STW 5: A link between cytokine regulation and gastrointestinal inflammation  

064  Effect of DA-9701, a novel prokinetic agent, on delayed gastric emptying induced by stress in rats  
K.-J. Lee, H. S. Lee, Y.-S. Jung, Republic of Korea

065  Effect of hyoscine butylbromide (Buscopan®) on cholinergic pathways in the human intestine  

066  Long-term effects of otilonium bromide on tachykinin receptors, substance P and NOS expression in the rat colon muscle coat  
M.-S. Faussone-Pellegrini, C. Traini, G. Cipriani, S. Evangelista, P. Santioli, M. G. Vannucchi, Italy

067  Effects of Butylscopolamine Bromide on nicotinic acetylcholine receptors in cultured Guinea pig enteric neurons  
T. Weiser, N. Wronna, U. Kraushaar, Germany

068  Analysis of fecal microbiota and effectiveness of a probiotic, VSL#3 in patients with functional constipation: A Korean multicenter study  

069  Effects of TAK-480, a novel tachykinin NK2 receptor antagonist, on visceral hypersensitivity in rabbits and ricinoleic acid-induced defecation in guinea-pigs  
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<td>An investigation of the therapeutic potential of chymase-containing mast cells in a preclinical model of irritable bowel syndrome and their translational relevance</td>
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Friday, 7 September 2012 – Poster Presentations

088 Connective remodelling in the colonic neuromuscular compartment of patients with ulcerative colitis
N. Bernardini, C. Segnani, C. Ippolito, M. Chiarugi, P. Buccianti, M. Castagna, C. Blandizzi, A. Dolfi, Italy

089 Pancreatic Polypeptide (PP) delays Gastric Emptying (GE) of a radio-opaque liquid meal in conscious rats
S. Verschueren, P. Janssen, J. Tack, Belgium

PS-07 Poster Session

12:30–14:30 Foyer Sala Magenta

Basic and translational session: Brain-gut-axis and stress mechanisms
Discussants: A. Blackshaw, United Kingdom
B. Greenwood–Van Meerveld, USA
A. Travagli, USA

090 Chronic intermittent stress-induced visceral pain: Evidence for region- and cell-specific epigenetic regulation of Glucocorticoid Receptor (GR) in nociceptive DRG neurons
S. Hong, G. Zheng, J. Wiley, USA

091 Corticotropin-releasing hormone receptor 2 activation in mesenteric adipose tissue leads to activation of MAP kinases and release of proinflammatory cytokines
J. Hoffman, C. Fink, I. Karagiannidis, K. Bakirtzi, J. Bugni, C. Pothoulakis, USA

092 Acute water avoidance stress induces visceral analgesia when tested non-invasively—differential role of opioid-dependent mechanisms in male and female rats
M. Larauche, A. Mulak, Y.-S. Kim, M. Million, Y. Tache, USA, Poland

093 Anxiety and sympathetic nervous system activation are associated with the development of human esophageal pain hypersensitivity
C. Botha, C. Knowles, Q. Aziz, United Kingdom

094 Chronic stress potentiates descending inhibition to colonic circular smooth muscle of mice and humans
Y. Zhang, M. Beyak, A. Lomax, H. MacDonald, W. Paterson, S. Vanner, Canada

095 Gastrointestinal inflammation and environmental enrichment alter stress-induced activation of the corticolimbic system
F. Reichmann, E. Singewald, P. Holzer, Austria

096 Enteric intrinsic primary afferent neurons may modulate the gut-brain axis by synaptic transmission to extrinsic mesenteric afferent fibres
A. Perez-Burgos, W. Kunze, Canada

097 Perinatal high fat diet modulates GABAergic transmission in central brainstem circuits regulating gastric functions
K. Browning, Z. Reagan, USA

098 Sexually dimorphic effects of unpredictable early life adversity on visceral pain in a rodent model: Importance of estradiol
A. Chaloner, B. Greenwood–Van Meerveld, USA

099 Microstructural brain changes in patients with Diabetes Mellitus and gastrointestinal symptoms
J. B. Frøkjær, L. W. Andersen, C. Brock, M. Simrén, M. Ljungberg, E. Sæfteland, G. Dimcevski, H. Gregersen, A. M. Drewes, Denmark, Sweden, Norway

100 Psychological stress induces anxiety and pain hypersensitivity through glucocorticoid and CRF-Mediated Mechanisms in the Amygdala
A. Johnson, L. Tran, B. Greenwood–Van Meerveld, USA

101 Changes in peptidergic neurotransmission with VIP and Substance P during postoperative ileus in rat are associated with c-Fos immunoreactivity in the brainstem
M. S. Kasparek, B. Goetz, P. Benhaqi, J. Glatzle, M. E. Kreis, Germany

102 Longitudinal assessment of colitis in the adoptive transfer mouse model using colonoscopy and µPET/CT
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M. Neunlist, France
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S. Ward, USA

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| **Basic and translational session: Glial and enteric neurons in health and disease**<br>**Discussants:** N. Spencer, Australia<br>S. Srinivasan, USA<br>H. Young, Australia | **252** Identification of purinergic signaling in the esophageal enteric neurons<br>H. Dong, Y. Jiang, J.-W. Kim, R. K. Mittal, USA  
**254** TRPV4 channel activation stimulates enteric glia in the mouse colonic myenteric plexus<br>B. Gulbransen, C. Altier, K. Sharkey, Canada  
**255** Distribution of TMEM100, a novel marker of the mouse and human enteric nervous system<br>G. Farrugia, S. Eisenman, S. Gibbons, R. D. Singh, M. Sarr, M. Kendrick, D. Larson, E. Dozois, K. R. Shen, USA  
**256** High fat diet induces murine colonic neuronal cell loss and enteric dysmotility: Role of macroautophagy and ER-stress<br>B. Nezami, S. M. Mwangi, S. Srinivasan, USA  
**257** Mechanisms involved in the therapeutic properties of mesenchymal stem cells on colon damages: Application to radiotherapy side effects<br>A. Semont, N. Mathieu, C. Durand, C. Demarquay, M. Benderitter, France  
**260** Myenteric intrinsic primary afferent neuron function correlates with altered motility in aged mice<br>W. Kunze, B. Wang, Y.-K. Mao, A. Stanisz, Y. Wu, Canada  
**261** Myogenic and neurogenic properties of three independent motor patterns in the whole rat colon<br>J. Chen, Q. Zhang, K. Li, Y. Yu, J. D. Huizinga, China | **262** Evidence for negative effects of Ethanol upon the enteric nervous system during pregnancy and in the regenerating postnatal gut<br>K.-H. Schäfer, P. Kolbe, J. Schnepf, T. Schwab, Germany  
**263** Age-related change in cholinergic and nitricergic signaling in the mouse rectum<br>B. Patel, S. Fidalgo, R. Ranson, J. Saffrey, M. Yeoman, United Kingdom  
**264** Fast (kHz) imaging with improved sensitivity and spatial resolution reveals stepwise Ca2+ increases in individual varicosities<br>M. Martens, P. van den Berghe, Belgium  
**265** Enteric glia mediate ion transport abnormalities in mouse colon during colitis<br>S. MacEachern, W. Mac Naughton, K. Sharkey, Canada  
**266** Effect of oxytocin on the chemical sensitivity of the myenteric afferent fibers in rats in vitro<br>J. Li, B. Xue, K. Liu, C. Liu, China  
**267** Expression of PrPC in glial cells of the cat intestinal tract<br>C. Sorteni, M. De Angeli, P. Clavenzani, R. De Giorgio, C. Johnson, R. Chiocchetti, Italy, USA  
**268** Edema-induced PAK activation negatively regulates MLC phosphorylation and inhibits intestinal motility<br>K. Uray, J. Chu, R. Hetz, A. Olsen, C. Cox, USA  
**269** The influence amyloid-β Protein upon Enteric Neurons- A possible diagnostic tool for early diagnosis in Alzheimer’s disease<br>A. Braun, M. Bischof, M. Grimm, T. Hartmann, S. Krämer, A. Schönfeld, K.-H. Schäfer, Germany  
**270** Spatial analysis of the enteric nervous system of GFP-Nestin expressing mice<br>D. Grundmann, F. Markwart, K.-H. Schäfer, Germany  
**271** Effects of oral administration of rotenone on the enteric nervous system<br>M. Tasselli, S. Paillusson, T. Chaumette, P. Aubert, S. Hunot, M. Neunlist, P. Derkinderen, France  
**272** Differential regulation of 5-HT and neurotensin expression in rat colonic mucosal enteroendocrine cells by brain derived neurotrophic factor<br>J. Grider, Z. Bradley, C.-M. Xia, K. Murthyla, J. Kuemmerle, L. Qiao, USA |
273 Evolution of the postnatal phenotypical maturation of glial cells in the enteric nervous system
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274 Glutathione promotes myenteric neuroprotection in the jejunum of diabetic rats
T. R. Santos Soares, C. Hermes Uliana, J. Nelisi Zanoni, Brazil

275 Myenteric neuron numbers are maintained in aging mouse distal colon
P. Gamage, R. N. Ranson, M. S. Yeoman, B. A. Patel, M. J. Saffrey, United Kingdom

276 Changes in the enteric stem cell niche of children with Hirschsprung’s disease
C. Hagl, M. Theisen, E. Wink, K.-H. Schäfer, Germany

277 Ischemia/reperfusion damage in human intestine involves inflammation and changed expression of nitric oxide synthases
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278 Post-junctional cell types involved in inhibitory neuromuscular transmission in murine internal anal sphincter
C. Cobine, K. Sanders, S. Ward, K. Keef, USA

279 Analysis of changes in the cells of the mouse internal anal sphincter during aging
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281 Age-related changes in nitricergic and purinergic signalling in the mouse internal anal sphincter
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282 Esophageal biomechanical properties as indicator of impaired gastrointestinal function in diabetes patients
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283 Principles of analysis of spatio-temporal mechanical events during neurogenic and myogenic activity in rabbit colon
L. Winkendt, P. Dinning, J. Arkwright, S. Brookes, M. Costa, Australia

284 Intestinal motility and nematode-induced protection against development of murine model of type 1 diabetes (T1D)
L. Notari, R. Sun, S. Yan, J. Bohl, A. Zhao, J. F. Urban, Jr., T. Shea-Donohue, USA

285 The anorectal defecation reflex
P. Broens, F. Penninckx, E. Heineman, J. Boix Ochoa, The Netherlands, Belgium, Spain

286 Release of β-NAD and ATP upon activation of myenteric 5-HT3 or nicotinic acetylcholine receptors in murine and primate colons
V. Mutafova-Yambolieva, L. Durnin, K. Sanders, USA

287 Properties of cholinergic and non-cholinergic submucosal neurons along the mouse colon
J. P. Pei Foong, J. C. Bornstein, Australia

288 β-NAD and not ATP acting via P2Y1 purinoreceptors is the purine that mediates inhibitory motor responses in the colon
S. Ward, S.-J. Hwang, P. Blair, L. Durnin, V. Mutafova-Yambolieva, K. Sanders, USA

289 Effect of acute ethanol exposure on the electrical and mechanical activities in the small intestine
W. Lammers, S. Subramanya, B. Stephen, K. H. Schäfer, United Arab Emirates, Germany

290 Mechano-sensory properties of hypertrophic intestine following chronic obstruction
J. Zhao, J. Yang, D. Grundy, H. Gregersen, Denmark, United Kingdom

291 Decrease in serotonin-induced tachykinin signaling can account for age-related reductions in the amplitude and the frequency of Colonic Migrating Motor Complexes (CMMCs) in the murine distal colon
B. Patel, M. Yeoman, S. Fidalgo, P. Dhulia, I. Girdlestone, R. Ranson, J. Saffrey, United Kingdom
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309  **Effects of kaolinite ingestion on regulation by leptin of intrinsic nitrergic neurons activity in jejunum and proximal colon in rats**  
F. Angel, F. Voinot, C. Fischer, C. Schmidt, C.-H. Malbert, France

310  **Palonosetron a serotonin-receptor-3-antagonist improves obesity-associated fatty liver disease in mice**  
Y. Ritze, V. Ehrmann, G. Bárdos, S. C. Bischoff, Germany

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**PS-21  Poster Session**

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**Basic and translational session: Gastric physiology, pathophysiology**

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K. Bitar, USA  
K. Keef, USA

311  **Decreased vagal cholinergic pathway and altered gastric monoaminergic system contribute to the gastroparesis in the rats with 6-OHDA injection of substantia nigra**  
L. Zheng, R. Fan, J. Song, J. Zhu, China

312  **Insulin-like Growth Factor 1 (IGF1) encodes memory of past food intake via pleiotropic effects on the gastric neuromuscular apparatus**  
T. Ordog, Y. Toyomasu, Y. Hayashi, A. Lorincz, M. Bardsley, L. Popko, D. Young, S. Gibbons, D. Linden, J. Szurszewski, G. Farrugia, USA

313  **Relaxation induced by guanosine in mouse stomach**  
F. Mulè, M. G. Zizzo, A. Amato, F. Maiorana, N. Belluardo, R. Serio, Italy

314  **P2Y1 purinoreceptors are essential for inhibitory neurotransmission in the murine gastric antrum**  
S. Ward, L. Shaylor, R. Delaney, P. Blair, S.-J. Hwang, K. Sanders, USA

315  **Relaxation induced by menthol on mouse gastric tone: Analysis of action mechanism**  
A. Amato, R. Serio, F. Mulè, Italy

316  **The effects of progesterone on gastric motility in pregnant rats: A bradygastric response**  
M. Americo, Y. Siznato, D. Damasceno, J. Matos, R. Oliveira, L. Corá, J. R. Miranda, Brazil

317  **A simple method for measuring gastric emptying in pre-weaned rats in natural free-feeding conditions**  
M. Steven, R. Carachi, United Kingdom

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318  **The effect of the GLP-1 receptor agonist, exendin-4 on blood glucose levels, emesis and gastric myoelectric activity, in the ferret**  
Z. Lu, N. Percie du Sert, G. Lin, D. T. Wai Yew, P. Andrews, J. Rudd, Hong Kong SAR, China, United Kingdom

319  **Dyspepsia and diet**  
I. Chirila, V. L. Drug, F. D. Petrariu, O. Barboi, M. Anwar, Romania

320  **Morphological and functional aspects of experimental toxic gastritis induced by enteral impact of lignite charcoal**  
I. Putintseva, A. A. Savchenko, E. A. Shinkarenko, Russia

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**PS-22  Poster Session**

12:30–14:30  Foyer Sala Magenta

**Basic and translational session: Probiotics, pharmacotherapy, pharmacogenomics and pharmacology**

Discussants:  
A. Page, Australia  
C. Sternini, USA

321  **Piperine improves swallow response of patients with neurogenic dysphagia**  
L. Rofes, D. Álvarez, V. Arreola, F. Casamitjana, A. Enrique, P. Clavé, Spain

322  **Lactobacillus casei DG decreases LPS-induced nitric oxide and enteroglial-S100B secretion in human intestinal biopsies**  
F. Turco, G. Sarnelli, I. Palumbo, T. Di Maio, A. D’Alessandro, R. Cuomo, Italy

323  **Association between functional dyspepsia and neuronal nitric oxide synthase gene polymorphism**  

324  **Effect of clomipramine on abdominal pain and brain activation in response to colorectal distention**  
S. Fukudo, N. Itoh, M. Kanazawa, S. Watanabe, T. Hamaguchi, J. Morishita, M. Kano, T. Tashiro, Japan

325  **Effects of erythromycin on esophageal contractility in healthy volunteers: An advanced muscle contraction analysis**  
A. L. Krarup, D. Liao, F. H. Lundager, H. Gregersen, A. M. Drewes, Denmark
326 Elucidation of the mechanisms underlying the potential usefulness of STW 5 in reflux esophagitis
H. Abdel-Aziz, G. Ulrich-Merzenich, O. Kelber, D. Weiser, M. T. Khayyal, Germany, Egypt

327 Terminal restriction fragment length polymorphism analysis of the diversity of fecal microbiota in patients with Irritable Bowel Syndrome (IBS)

328 Mechanisms of action of Otilonium Bromide (OB) in human cultured smooth muscle cells and rat colonic strips
M. Jimenez Farrerons, M. Martinez-Cutillas, V. Gil, N. Mañé, D. Gallego, Spain

329 Selective agonists of somatostatin receptor subtype 1 or 2 prevent visceral hyperalgesia induced by activation of peripheral CRF1 receptors with cortagine in mice
M. Larauche, A. Mulak, M. Million, J. Rivier, Y. Tache, USA, Poland

330 Plecanatide, a superior analog of uroguanylin, as an oral drug candidate for treatment of gastrointestinal functional disorders and diseases
K. Shailubhai, A. Brancale, G. Jacob, USA, United Kingdom

331 The cannabinoid agonist WIN 55,212-2 at a low, analgesic dose does not alter gastrointestinal motor function in type 2 diabetic rats
G. Vera Pasamontes, A. E. Lopez, P. A. Cabezos, M. I. Martin Fontelles, R. Abalo, Spain

332 Secretory action of individual extracts of the herbal medicine STW 5 in human intestine

333 A model of in vitro perfused mouse intestine suitable for pharmacological testing of antiinflammatory drugs
D. Schreiber, G. Erkel, K.-H. Schäfer, Germany

PS-23 Poster Session
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Basic and translational session: Neuroimmune mechanisms
Discussants: S. Vanner, Canada
N. Vergnolle, France

334 Attenuation of colitis by acetylcholinesterase inhibitor is mediated via the vagus nerve and the dendritic cells
J.-E. Ghia, H. Ji, B. Labis, M. Rabbi, V. Pavlov, K. J. Tracey, Canada, USA

335 The influence of the immune environment and miRNA expression on colonic stem cell behavior in a parasitic infection
T. Vanuytsel, L. Notari, I. Farrance, S. Yan, A. Zhao, R. Sun, J. Urban, J. Tack, T. Shea-Donohue, Belgium, USA

336 HSV-1 infection of enteric nervous system evokes inflammation-mediated myenteric plexus injury
P. Brun, M. C. Giron, M. Quesari, L. Spagnol, G. Palù, I. Castaglione, Italy

337 Modulation of the inflammatory response by mas-related gene receptor D during intestinal schistosomiasis

338 Mucosal immune biological markers in patients with Irritable Bowel Syndrome (IBS)
C. Cremon, L. Zecchi, R. Barbaro, M. Fiorentino, A. Altimari, G. Carini, R. De Giorgio, R. Corinaldesi, V. Stanghellini, G. Barbara, Italy

339 Altered unfolded protein response in inflamed biobreeding rats
T. Masaoka, S. Salim Rasoel, C. Vanormelingen, P. van den Berghe, J. Tack, Belgium

340 Cyclooxygenase inhibitors modulate pro-fibrotic signalling mediated by transforming growth factor beta in experimental colitis
R. Colucci, C. Ippolito, L. Antonioli, L. Mattii, M. Fornai, C. Blandizzi, N. Bernardini, Italy

341 Immunomodulatory role of Nociceptin/Orphanin FQ – NOP receptor system in a rat model of experimental colitis
C. Petrella, C. Giuli, H. Eutamene, C. Cartier, M. Leveque, A. Bedini, S. Spampinato, L. Bueno, V. Theodorou, M. Broccardo, S. Agostini, Italy, France
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**Basic and translational session: Brain-gut-axis and stress mechanisms**

**Discussants:** Y. Taché, USA  
J. Wiley, USA

| 347 | Acute psychological stress induces an immediate naloxone-independent visceral analgesia to colorectal distension in mice  
M. Larauche, H. Duboc, A. Mulak, Y. Tache, USA, Poland |
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| 348 | Strain differences in visceral nociception, anxiety and depression-like behaviour: Responses of 12 mouse strains  
R. D. Moloney, T. G. Dinan, J. F. Cryan, Ireland |
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**Basic and translational session: Extrinsic neural pathways, hypersensitivity and pain**

**Discussants:** Y. Taché, USA  
J. Wiley, USA

| 350 | Perivagal capsaicin alters the morphological, physiological and pharmacological characteristics of vagal motoneurons  
R. A. Travagli, K. N. Browning, G. M. Holmes, E. Swartz, USA |
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| 351 | Reduced sensory neuron activity in the aged mouse  
J. Donovan, D. Grundy, United Kingdom |
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| 352 | Developmental origins of functional dyspepsia like gastric hypersensitivity in rats  
S. Sarna, J. Winston, USA |
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| 353 | Electrical vagus nerve stimulation reduces plasma cholesterol and triglycerides levels in rats  
K. Gil, A. Bugajski, M. Kurnik, P. Thor, Poland |
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| 354 | Isomalto-oligosaccharides reverts visceral hypersensitivity and intestinal epithelial damage induced by water avoidance stress in rats  
H. Xin, W. Wang, X. Fang, L. Zhu, G. Fei, H. Dou, F. Liu, D. Huang, X. Sun, M. Ke, China |
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| 355 | Oxytocin hyperpolarizes cultured duodenum myenteric intrinsic primary afferent neurons by opening BKCa channels through IP3 pathway  
T. Che, H. Sun, J. Li, X. Yu, D. Zhu, B. Xue, K. Liu, M. Zhang, W. Kunze, C. Liu, China, Canada |
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| 356 | Characterisation of a radio-induced colorectal chronic pain model  
C. Durand, H. Eutamène, R. Daudin, N. Mathieu, C. Demarquay, M. Benderitter, S. Pezet, A. Sémont, France |
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| 357 | 5HT2B receptor mRNA expression throughout the brain-gut axis is unaltered in the maternally separated rat  
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**PS-26 Poster Session**

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**Basic and translational session: Microbiota in health and disease**

Discussants: L. Bueno, France, T. Shea-Donohue, USA

**PS-27 Poster Session**

12:30–14:30 Foyer Sala Magenta

**Basic and translational session: Signalling: Hormones, neurotransmitters, receptors, channels, secondary messengers**

Discussants: G. Mawe, USA, S. Srinivasan, USA
375 Adenosine modulates its own release through activation of A2A receptors on myenteric cholinergic nerve terminals of the rat ileum
M. Duarte-Araújo, P. Marques, C. Vieira, I. Silva, M. T. Magalhães-Cardoso, P. Correia-de-Sá, Portugal

376 The CB1-selective cannabinoid antagonist AM251 partially prevents gastrointestinal dysmotility induced by the antitumoral drug vincristine in the rat
G. Vera Pasamontes, A. E. Lopez, M. Martinez Villaluenga, P. A. Cabezos, M. I. Martin Fontelles, R. Abalo, Spain

378 Endocrine and smooth muscle responses of the bitter agonist, denatonium benzoate, in the stomach
B. Avau, T. Thijs, J. Laermans, J. Tack, I. Depoortere, Belgium

379 Selective gene expression by rat small and large bowel epithelia
M. Goebel-Stengel, A. Stengel, N. Lambrecht, G. Sachs, Germany, USA

380 Relationship between purinergic neurotransmission through P2Y1 receptors and the contractile effect of Orphanin FQ
M. Martin Ibanez, E. Tapia, P. Vergara, Spain

381 Voltage-gated sodium selective ion channel NaV1.5 mechanosensitivity is modulated by local anesthetics
G. Farrugia, A. Beyder, P. Strege, C. Bernard, USA

382 Restoring the density of interstitial cells of Cajal of the jejunum from diabetic rats after supplementation with quercetin
J. Nelisis Zanoni, D. Linden, S. J. Gibbons, C. Nonis Zucoloto, F. C. Vieira Frez, Brazil, USA

383 IL-10 reverses delayed gastric emptying, slow wave abnormalities and smooth muscle membrane potential gradient changes in diabetic NOD/ShiLtJ mice
G. Farrugia, K.-M. Choi, L.Sha, A. Beyder, P.-J. Verhulst, J. Mason, A. Bauer, T. Ordog, D. Linden, J. Szurszewski, P. Kashyap, S. Gibbons, USA

384 Intracellular Ca2+ release from Endoplasmic Reticulum (ER) regulates slow wave currents and pacemaker activity of interstitial cells of Cajal
M. Zhu, S. D. Koh, K. Sanders, USA

385 Inhibitory neurotransmission to circular smooth muscle in Crohn’s ileitis
W. Paterson, Y. Zhang, D. Hurlbut, S. Lourissen, M. Blennerhassett, Canada

386 Development of a biophysically based model of the anoctamin 1 calcium-activated chloride channel
R. Lees-Green, L. Cheng, J. Sneyd, New Zealand

387 Functional roles of interstitial cells of Cajal in aganglionic/hypoganglionic intestines

388 Interstitial cells of Cajal and their association with enteric nerves in human gastro-duodenal junction

389 Colon interstitial cells of Cajal associated with the myenteric plexus harbour ion channels regulated by excitatory neurotransmitters
G. Wright, S. P. Parsons, J. D. Huizinga, Canada

390 ‘Real-time’ high-resolution slow wave mapping using a novel analysis platform
G. O’Grady, S. Bull, L. Cheng, New Zealand

391 A virtual model of human gastric slow wave dysrhythmias
P. Du, G. O’Grady, L. Cheng, New Zealand

392 Slow wave conduction disturbances proximal and distal to ileal end-to-end anastomosis following ileocystoplasty
W. Lammers, F. Hammad, J. Rietbergen, B. Stephen, L. Lubbad, United Arab Emirates, The Netherlands
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**Clinical session: Esophagus: Clinical**

Discussants: V. Annese, Italy
R. Penagini, Italy

**393** Kinetics of transient hiatus hernia during transient lower esophageal sphincter relaxations and swallows in healthy volunteers
Y.-Y. Lee, J. Whiting, E. Robertson, M. Derakhshan, A. Wirz, P. Connolly, K. McColl, United Kingdom

**394** Postprandial changes in autonomic nervous system and frequency of transient lower oesophageal sphincter relaxation (TLOSR)
P. Kuo, I. Bravi, U. Marreddy, Q. Aziz, D. Sifrim, United Kingdom

**395** Swallowing alterations after Traumatic Brain Injury (TBI) without brainstem involvement
L. Candeloro, D. Badiali, I. Biviano, E. S. Corazziari, F. I. Habib, Italy

**396** Esophageal high resolution manometry (HRM) in achalasia: Evaluation of the classification in a French multicentric cohort
S. Roman, F. Zerbib, L. Quevhere, H. Clermidy, S. Bruley des Varannes, F. Mion, France

**397** Esophageal motility abnormalities in patients with laryngo-pharyngeal symptoms: Preliminary reports from a study conducted with high resolution manometry and oropharyngeal pH monitoring
C. Vailati, G. Mazzoleni, S. Bondi, M. Bussi, P. A. Testoni, S. Passaretti, Italy

**398** Assessment with the Functional Luminal Imaging Probe distinguishes oesophago-gastric junction distensibility in Barrett’s oesophagus patients with hiatal hernias from healthy controls – A pilot study
C. Lottrup, J. Liu, P. Ejstrud, M. Ostapiuk, B. P. McMahon, A. M. Drewes, Denmark, China

**399** Can intraluminal multichannel pH-impedance monitoring be limited to 3h: Comparison between 24h ambulatory and 3h post-prandial recording
G. Gourcerol, E. Verin, N. Bertiaux-Vandaele, A. M. Leroi, P. Ducrotté, France

**400** Secretin level modulates the esophageal motor activity in type 2 diabetes mellitus
J. Xavier Jorge, C. Almeida, F. Delgado, M. Simões, Á. Coelho, A. Silva, Portugal

**401** Value of a rapid drink challenge test in the diagnosis of esophageal motility disorders
I. Marin Fernandez, J. Contxa, J. Serra, Spain

**402** Impact of bolus consistency and position on high-resolution manometric findings in patients
A. Ouyang, T. Yasir, F. Meng, D. Benthards, USA, China

**403** Multiple rapid swallows using high resolution esophageal manometry for motor disorders of the esophagus
A. Sankineni, N. George, M. Harrison, H. Parkman, USA

**404** Esophageal motor disorders and gastroesophageal reflux disease in lung transplanted patients
M. Di Stefano, F. Meloni, C. Mengoli, T. Oggiioni, M. Bergonzi, R. Di Domenica, A. M. Zanaboni, E. Miceli, E. Pagani, L. Maurizio, G. R. Corazza, Italy

**405** Lack of seasonal variation in the incidence of eosinophilic esophagitis
R. Schey, N. Frederickson, J. Go, J. Valestin, M. Redd, Y.-J. Lee, USA

**406** Can the 3-dimensional animation plot be a 3rd diagnostic tool in high-resolution manometry?: Comparison to conventional linear and spatiotemporal plot

**407** Oesophagogastric junction relaxation in chagasic achalasia
R. Oliveira, G. Mota, G. Carmo, Brazil

**408** The role of high gastroesophageal reflux monitoring in diagnosing of ear, nose, and throat (ENT) manifestations of GERD
S. Morozov, V. Isakov, L. Gibadullina, A. Epanchitseva, Y. Kucheryavyy, Russia

**409** Swallow induced acid and non-acid Gastroesophageal Refluxes (GERs) in patients who were suspected of GERD: The role of hiatal hernia
T. Patcharatrakul, C. Kriengkirakul, S. Gonlachanvit, Thailand

**410** Use of impedance monitoring for the diagnosis of secondary esophageal peristalsis impairment in patients with gastroesophageal reflux disease
A. Ledovskaya, O. A. Sabinin, Russia
411 Preoperative esophageal manometry as a predictor of patient outcome following adjustable gastric banding
O. Landon-Cardinal, J. Côté-Daigneault, P. Leclerc, M. Bouin, Canada

412 Esophageal disorders and psychological disadaptation in patients with globus sensation
O. Yanova, L. B. Lazebnik, V. A. Kim, L. D. Firsova, D. S. Bordin, Russia

413 Effects of high-resolution esophageal manometry on oxygen saturation and hemodynamic function
V. Garrigues, V. Ortiz Bellver, G. Benavent, C. Vinaixa, B. Rodriguez, C. Castellano, J. Ponce, Spain

414 The influence of positional changes on upper esophageal sphincter pressure using high resolution esophageal manometry
R. Schey, N. Frederickson, S. Hashmi, J. Go, J. Valestin, USA

415 Factors associated with dysphagia symptoms in patients who were suspected of GERD: A high resolution esophageal manometry study
C. Kriengkirakul, T. Patcharatrakul, S. Gonlachanvit, Thailand

416 Is the reflux characteristic to provoke heartburn, chest pain and cough different? The study using multichannel impedance-pH monitoring in patient with positive symptom index
S. J. Cho, E. J. Kang, J. S. Lee, T. H. Lee, S. J. Hong, Y. Jung, H. H. Im, J. O. Kim, Republic of Korea

417 Diagnostic thresholds of proximal pH monitoring for ENT manifestations of GERD
S. Morozov, V. Isakov, L. Gibadullina, A. Epanchintseva, Y. Kucheryavy, Russia

418 Esophageal contractile activity might re-appear after myotomy for achalasia
S. Roman, P. J. Kahrilas, F. Mion, T. Nealis, N. Soper, G. Poncet, F. Nicodeme, J. Pandolfino, France, USA

419 Transition zone defect as a negative prognosticator of the response to proton pump inhibitor treatment in patients with globus sensation

420 Different effects of esomeprazol on gastric and gastro-oesophageal junction PH
V. Boecxstaens, K. Blondeau, J. Tack, Belgium

421 Optimization of treatment efficacy for patients with various forms of gastroesophageal reflux disease
A. Osadchuk, M. G. Palushkina, I. L. Davydkin, Russia

422 The Gerd-Q is a useful tool for evaluating the patients’ satisfaction and identifying the patients with “unmet medical needs”
S. Okada, H. Suzuki, J. Matsuzaki, S. Fukushima, K. Hirata, T. Hibi, Japan

423 Otorhinolaryngological manifestations of gastroesophageal reflux disease and efficacy of their treatment
J. Bochkareva, A. V. Fedin, Russia

424 What factor associates with health-related quality of life in patients with gastroesophageal reflux disease under treatment with PPI?

425 Correlation between the new oropharyngeal pH-monitoring with the Restech® probe for laryngo-pharyngeal reflux and responsiveness to anti-secretive therapy
C. Vailati, G. Mazzoleni, S. Bondi, M. Bussi, P. A. Testoni, S. Passaretti, Italy

426 Treatment of halitosis: Results of itopride hydrochloride therapy
O. Salamakhina, Russia

427 On the choice of prokinetic in the complex treatment of gastroesophageal reflux disease
A. Koshel, A. V. Karpovich, S. S. Klokov, T. V. Dibina, Russia
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<td>Performance characteristics of scintigraphic measurement of gastric emptying of solids in health</td>
<td>M. Camilleri, J. Iturrino, A. E. Bharucha, D. Burton, A. R. Zinsmeister, USA</td>
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<td>431</td>
<td>Prevalence and outcomes of gastroparesis among hospitalized patients in US</td>
<td>S. Parasa, A. R. Mahankali Sridhar, K. Olden, USA</td>
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<td>432</td>
<td>Gallbladder and gastric motility in obese newborns, preadolescents and adults</td>
<td>A. Di Ciaula, P. Portincasa, D. Q.-H. Wang, Italy, USA</td>
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<td>Functional dyspepsia syndrome is extremely frequent across the eating disorders</td>
<td>A. Santonicola, P. Iovino, S. Gallotta, A. Fortunato, L. Pellegrini, C. Ciacci, Italy</td>
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<td>Comparison of Continuous Breath Test (CBT) versus Gastric Scintigraphy (GS) for Gastric Emptying Rate (GER) measurement in healthy and dyspeptic subjects</td>
<td>R. Dickman, T. Zilper, A. Steinmetz, L. Pakanaev, Y. Ron, H. Bernstine, D. Groshar, Y. Niv, H. Shirin, Israel</td>
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<td>Upper functional gastrointestinal disorders in young adults</td>
<td>A. Toghiani, P. Adibi, E. Behzad, M. Shafieeyan, Islamic Republic of Iran</td>
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<td>436</td>
<td>Upper gastrointestinal symptoms after laparoscopic sleeve gastrectomy for morbid obesity</td>
<td>M. Carabotti, G. Silecchia, L. Piretta, F. Leonetti, D. Capoccia, F. Coccia, F. Greco, E. Corazziari, C. Severi, Italy</td>
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<td>Effects of the amino acid, glutamine, on gastric emptying and the glycaemic response to oral glucose in healthy young subjects</td>
<td>D. Gentilcore, S. Ahmad, K. Jones, J. Greenfield, D. Samocha-Bonet, R. McKinnon, Australia</td>
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<td>442</td>
<td>Identification of novel domperidone metabolites in gastroparesis patients’ plasma and urine</td>
<td>A. Youssef, M. Pathikonda, A. Argikar, H. Parkman, S. Nagar, USA</td>
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<td>Alterations of body weight and hormones regulating food intake during a 1-year weight reduction program in obese outpatients</td>
<td>A. Stengel, A. Riedl, A. Ahnis, A. Figura, T. Hofmann, U. Elbelt, P. Kobelt, B. Klapp, Germany</td>
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Clinical session: Small bowel: Clinical
Discussants: F. Azpiroz, Spain
R. Cogliandro, Italy
A. Smout, The Netherlands

446 Gastrointestinal motility involvement of systemic sclerosis in Chilean patients
A. M. Madrid, L. Soto, G. Landskron, C. Defilippi, M. Cuchacovic, C. Defilippi, Chile

447 Duodenal mucosal lymphocyte subgroups in patients with persisting abdominal symptoms after Giardia lamblia infection
T. Hausken, V. Dizdar, K. Hanevik, O. D. Lærum, O. H. Gilja, J. G. Høttemakk, N. Langeland, Norway

448 Impact of gastric electrical stimulation on duodenal motility
G. Gourcerol, E. Huet, A. M. Leroi, P. Ducrotté, France

449 Use of ambulatory simultaneous measurements of small bowel intra-luminal impedance and pressure to predict the efficacy of migration motor complex phase III
E. Yazaki, J. Jafari, Q. Aziz, D. Sifrim, United Kingdom

450 Double dissociation between severe CIPO, mild neurological, but severe neuroradiological findings: Presentation of 6 cases of Mitochondrial Neurogastrointestinal Encephalomyopathy (MNGIE)
C. Tonon, R. De Giorgio, R. Rinaldi, D. N. Manners, C. La Morgia, C. Testa, G. Rizzo, E. Boschetti, F. Gaincola, V. Stanghellini, R. Lodi, Italy

451 Assessment of cine-MRI as a novel diagnostic modality for chronic intestinal pseudo-obstruction (CIPO)

452 Small bowel motility disorders in vagotomized patients
A. M. Madrid, S. Ledesma, G. Landskron, R. Wolff, V. Leon, J. P. Miranda, C. Defilippi, Chile

453 Natural course of adult patients with chronic intestinal pseudo-obstruction exhibiting transition zones in Korea

PS-32  Poster Session
12:30–14:30  Foyer Sala Magenta

Clinical session: Large bowel: Clinical
Discussants: M. Bellini, Italy
W. Chey, USA
M. Simrén, Sweden

454 Prevalence and clinicoepidemiological features of chronic intestinal pseudo-obstruction in Japan: Findings from a nationwide epidemiological survey
H. Iida, O. Hidenori, H. Sato, A. Nakajima, Japan

455 Automated cross-correlation analysis of pan-colonic manometry data clearly differentiates healthy controls from patients with constipation
P. Dinning, L. Wiklundt, S. Mohammed, M. Scott, Australia, United Kingdom

456 24 hour assessment of pancolonic motor activity in health and disease using solid-state technology: Comparison with traditional water-perfused catheters
S. Mohammed, N. Zarate, S. Preston, P. Lunniss, P. Dinning, S. M. Scott, United Kingdom, Australia

457 An evaluation of neuropsychological performance in Irritable Bowel Syndrome (IBS): Relationship between altered visuo-spatial memory function, salivary cortisol levels and tryptophan metabolism along the kynurenine pathway

459 Investigation of the efferent spinofugal axis by trans-lumbar and trans-sacral magnetic stimulation in Irritable Bowel Syndrome (IBS) and Interstitial Cystitis (IC)
E. Coss-Adame, J. Valestin, C. Bradley, K. Kreder, S. Rao, USA

460 The relationship between colonic breath methane excretion and IBS symptoms: The role of colonic methane production
M. Di Stefano, C. Mengoli, M. Bergonzi, A. M. Zanaboni, E. Miceli, E. Pagani, G. R. Corazza, Italy

461 Lack of any correlation among colonic transit time, bowel motions frequency and stool form in patients with Spinal Cord Injury
G. Bazzocchi, A. Avogadri, E. Poletti, Italy
462 Functional diarrhoea is the most frequent diagnosis in patients with chronic diarrhoea
P.-O. Stotzer, M. Simrén, Sweden

463 Impact of functional dyspepsia, GERD, depression and anxiety on patients with Irritable Bowel Syndrome (IBS)

464 Use of antibiotics during infancy and childhood and risk of recurrent abdominal pain

465 Nutritional profile and fiber intake in children with functional gastrointestinal disorders related to constipation
C. Boggio Marzet, M. L. Deforel, S. Dozo, V. Schuster, Argentina

466 Postinfectious irritable bowel syndrome after traveller’s diarrhoea: Incidence and risk factors
J. Schwille-Kiuntke, P. Zanger, C. Kasper, D. Weinmann, A. Rilk, P. Enck, Germany

467 Prevalence of irritable bowel syndrome during pregnancy trimesters
A. Toghiani, S. Riyahinejad, M. Farhang, A. Arjmandpour, A. Sobjani, R. Rafiei, P. Adibi, N. Adibi, Islamic Republic of Iran

468 Intestinal symptoms and psychological status determined the quality of life for patients with Irritable Bowel Syndrome with Diarrhea (IBS-D)
L. Zhu, D. Huang, X. Fang, M. Chang, W. Chen, H. Xin, L. Shi, T. Xu, M. Ke, China

469 Design of studies with combined pharmacodynamic and clinical endpoints for colonic motility disorders: Clinical and statistical considerations
A. R. Zinsmeister, D. Burton, M. Camilleri, USA

470 Effect of chronic chili ingestion on postprandial gastrointestinal symptoms and rectal sensation in diarrhea predominant Irritable Bowel Syndrome (IBS): A randomized double-blinded crossover study
S. Gonlachanvit, S. Aniwan, T. Patcharatrakul, Thailand

471 Psychometric evaluation of patient-reported outcome measures for assessing IBS-C symptom severity and change: Results from two randomized, double-blind, placebo-controlled phase 3 trials of linaclotide

472 Effect of a synbiotic preparation on stool consistency, intestinal transit time and gut microbiota in patients with severe functional constipation: A double blind controlled trial
G. Bazzocchi, S. Turroni, P. Brigidi, Italy

473 Effects of sinusoidal modulated current on large intestina motility
A. Shklyaev, Y. Gorbunov, A. Pantyukhina, A. Bessonov, I. Malakhova, E. Korobov, Russia

474 Psychometric evaluation of patient-reported outcome measures for assessing chronic constipation symptom severity and change: Results from Phase 2b and Phase 3 trials of Linaclotide

475 Efficacy of combination therapy with osmotic laxatives and bifid triple viable for the elderly persons suffering non-organic constipation
J. Huang, H. Song, Y. Shen, China

476 Mediation analysis suggests that linaclotide has a direct effect on relief of abdominal pain independent of constipation improvement

477 Factor analyses of chronic constipation patient-reported outcome measures: Results from phase 2b and phase 3 trials of linaclotide
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<td>G. Bazzocchi, Italy</td>
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<td>S. Rao, USA</td>
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<td>B. Salvioli, Italy</td>
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<td><strong>478</strong></td>
<td>What is a clinically significant rectocele in functional constipation?: Relationship between rectal sensitivity, compliance, post-defecatory residue and rectocele size</td>
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<td><strong>479</strong></td>
<td>How accurate is computerized analysis versus an expert analysis for evaluating anorectal function using 3-D high definition anorectal manometry</td>
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<td><strong>480</strong></td>
<td>Fecal incontinence in patients with IBS</td>
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<td>A. Bajor, P. Jerlstad, G. Ringström, M. Simrén, Sweden</td>
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<td><strong>481</strong></td>
<td>High resolution anorectal manometry in the diagnosis of pelvic floor dyssynergia</td>
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<td>L. Novais, Portugal</td>
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<td><strong>482</strong></td>
<td>Simplified saline continence test for evaluation of anorectal capacity: Technique and normative data</td>
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<td>K. Tantiphlachiva, C. Sahakitrungruang, J. Pattanaarun, A. Rojanasakul, Thailand</td>
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<td>Randomized trial of biofeedback or medical treatment for fecal incontinence</td>
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<td>E. Johansson, S. Walter, A. Ingemansson, A.-K. Ryn, O. Hallböök, Sweden</td>
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<td>Surgical correction does not improve dyssynergic defecation in patients with rectal prolapse</td>
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<td>Transcutaneous tibial nerve stimulation in the treatment of faecal incontinence: A randomised trial</td>
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<td>Does deep brain stimulation modify ano-rectal motility?: Result of a randomized cross-over study</td>
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<td>Effect of biofeedback therapy in irritable bowel syndrome patients with intractable constipation</td>
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<td>O. Krapivnaia, S. Alexeenko, Russia</td>
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<td>Top down medical treatment for dis-impaction of patients in aged-care setting</td>
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<td>J. Jordan-Ely, J. Hutson, B. Southwell, Australia</td>
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<td>Home electric stimulation for women with fecal incontinence: Effectiveness and predictors of outcome</td>
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<td>Quality of perception of the desire to defaecate and viscerosomatic referral patterns differ between patients with chronic constipation and healthy subjects</td>
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<td>J. Tack, Belgium</td>
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<td>Transcutaneous electrical acupuncture therapy for severe gastroparesis and constipation in a diabetic patient</td>
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<td>I. Sarosiek, A. Alvarez, Y. Sun, J. Chen, R. McCallum, USA</td>
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<td><strong>491</strong></td>
<td>Translation and validation of the ROME-III questionnaires for the diagnosis of functional gastrointestinal disorders in Korea</td>
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<td>Probiotics for prevention of radiation induced bowel disease: New findings and updated meta-analysis</td>
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<td>Image guided radiation therapy (IGRT) reduces gastrointestinal (GI) sequelae compared with external beam radiation therapy (EBRT) in patients with carcinoma of the prostate (CaP)</td>
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<td>Level of Acetylcholine and serotonin in patients with chronic pancreatitis and pain after eating</td>
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<td>L. Lazebnik, O. Knayzev, L. Vinokourov, I. Trubitsyna, E. Dubtsova, Russia</td>
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symptoms(GI) with clinical factors and the treatment with Metformin in Diabetis Type 2 (type2DM) patients
R. L. Salerno Soares, R. A. Cruz Filho, B. Parada, I. Bromonschenkel Brandão, A. Queiroz Micuci, C. Dias Gonçalves, Brazil

497 Does a westernised diet predispose to the development of FGIDs?

498 Gastrointestinal contraction patterns and segmental transit times evaluated with ambulatory capsule tracking
A. M. Haase, T. Gregersen, L. Fynne, V. Schlageret, M. Demierre, P. Kucera, S. M. Scott, S. Laurberg, K. Krogh, Denmark, Switzerland, United Kingdom

499 Biliary tract motility in patients with chronic hepatitis C
E. Plotnikova, M. A. Shamray, M. V. Krasnova, E. A. Baranova, K. A. Krasnov, Russia

500 Cortical brain activation in response to somatic pain in symptomatic diverticular disease
J. Smith, L. Marciani, D. Humes, J. Scholefield, P. Gowland, S. Francis, R. Spiller, United Kingdom

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001 Expression and hierarchic role of serotonin receptors in the control of the guinea pig distal colon peristalsis
B. Balestra, R. Vicini, O. Pastoris, M. Costa, V. Stanghellini, G. Barbara, R. De Giorgio, M. Tonini, Italy, Australia

002 Impact of late anorectal dysfunction on quality of life after radiotherapy for prostate cancer
W. Hopman, R. Krol, R. J. Smeenk, E. van Lin, The Netherlands

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003 A new rat model for enteric neurodegeneration
B. Ohlsson, E. Sand, U. Voss, O. Hammar, R. Alm, G. Nordin Fredrikson, E. Ekblad, Sweden

004 Irritable bowel syndrome impairs psychological well-being and gastrointestinal symptoms in patients with microscopic colitis
B. Roth, B. Ohlsson, Sweden

005 Use of a more specific inhibitor, T16Ainh-A, confirms a key role for Ano1 in the regulation of ICC proliferation
G. Farrugia, A. Mazzone, S. Eisenman, P. Strege, Z. Yao, T. Ordog, S. Gibbons, USA

006 Epidemiology of Chronic Constipation in Germany in 2012 (GECCO)
P. Enck, J. Schwille-Kiuntke, F. Junne, A. Joseph, J. Dibello, P. Hodgkins, J. Leinert, M. Smid, T. Koehler, Germany, Switzerland, USA

007 Effect of hypothermia on human colonic smooth muscle contractility
A. Altomare, M. P. Guarino, A. Gizi, S. Cocca, C. Cherubini, R. Alloni, S. Filippi, M. Cicala, Italy

008 Exposure of human colonic mucosa to Lipopolysaccharide induces impairment of muscle cell contractility: Role of oxidative stress and mucosal translocation
Gut Microbiota & Health Section within ESNM

Gut microbiota, and their role on human health and disease is a booming area of research, presenting a new paradigm full of opportunities for medical and food applications.

To raise recognition and expand knowledge & interest in this fast moving field, recently the Gut Microbiota & Health Section (within the European Society for Neurogastroenterology & Motility, ESNM) was created.

The purpose is to raise recognition and expand knowledge & interest in the field of Gut Microbiota & Health.

To achieve this, the section will:
► Stimulate & encourage research in the field of Gut Microbiota & Health
► Provide a forum for dissemination of novel discoveries
► Promote science & educational activities to widely disseminate the knowledge in this field

All Members of the ESNM are highly encouraged to become a member of the newly created GMFH Section to stay up-to-date on the latest findings in the field of Gut Microbiota & Health.

Please go to www.esnm.eu and fill out the membership application form.

Gut Microbiota for Health Experts Exchange:  
An open participatory web platform

The Section launched a web platform, called Gut Microbiota For Health Experts Exchange, to exchange news on links between Gut Microbiota and Health. It comprises selected summaries of the best content from a variety of quality sources (including links to the full articles), ranging from scientific literature and traditional media to social media run by professionals, private companies or governments.

This platform allows experts from all over the world to exchange information about the current status of research on the gut microbiota, including its effects on digestive and immune systems.

To access and fully benefit from all these tools, create your own profile and register on: www.gutmicrobiotaforhealth.com
UEG e-learning is a unique, universal resource for information and education in gastrointestinal disease, treatment and care.

The universal source of knowledge in gastroenterology

Here, on a single website, anyone in the world can access over 8,000 documents and more than 600 multimedia items. More content is being added all the time – including presentations, podcasts and videos, such as endoscopy and surgical cases. There is also a growing range of accredited e-courses in gastroenterology and hepatology.

The UEG e-learning library includes all abstracts and materials from UEG, our member societies, and UEG Week, the annual meeting that attracts over 14,000 people from across the world. The site is also a platform for fostering collaboration and interaction, and we encourage all our users to contribute.

Discover a world of knowledge and learning at your fingertips. Register free now at www.e-learning.ueg.eu

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Congress Information

Congress Venue
Nuovo Polo Congressuale
Palazzo dei Congressi and Sala Maggiore
Piazza della Costituzione N°4/a
40128 Bologna, ITALY
► www.bolognacongressi.it

Congress and Exhibition Office
CPO HANSER SERVICE GmbH
Office Berlin
Paulsborner Str. 44
14193 Berlin, GERMANY
Phone: +49 – 30 – 300 669-0
Fax: +49 – 30 – 305 73 91
Email: ngm2012@cpo-hanser.de

Congress Registration Counter
All congress materials and documentations are available at the congress registration counter. The congress counter will be located in the Sala Maggiore at the Nuovo Polo Congressuale.

Opening hours
Thursday, 6 September 2012 11:00 – 20:00
Friday, 7 September 2012 06:30 – 19:30
Saturday, 8 September 2012 06:30 – 19:30

During these opening hours the conference counter can be reached at:
Phone: +39 – 051 – 63 75 160

Registration Fees

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<td>Accompanying Person</td>
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* Resident, Post-Doctoral Fellows and Trainees must present a formal declaration from the head of department or responsible for the training programme.

Registration Fee for NGM Delegates, Residents, Post-Doctoral Fellows and Trainees includes:
► Admission to all scientific sessions
  (Thursday – Saturday, 6 – 8 September 2012)
► Admission to poster exhibition and technical exhibition
► Congress materials (delegate bag, final programme, etc.)
► Coffee breaks (Thursday – Saturday, 6 – 8 September 2012) and lunches on Friday and Saturday
► Public transportation pass
  (Thursday – Saturday, 6 – 8 September 2012)
► Admission to the Welcome Reception
  (Thursday, 6 September 2012)

Registration Fee for Accompanying Persons includes:
► Admission to the Welcome Reception
  (Thursday, 6 September 2012)
► Half-day Bologna sightseeing tour
► Public transportation pass
  (Thursday – Saturday, 6 – 8 September 2012)

On-site Registration
On-site registration will be processed on a first-come, first-served basis. Priority will be given to pre-registered delegates. Depending on the number of on-site registered delegates, availability of congress material may be limited.

Name Badges
Participants are asked to wear their name badge at all times during the congress including the Welcome Reception.

The colours of the name badges have the following significance:
Faculty: orange
Participants: blue
Accompanying persons: pink
Exhibitors: green
Staff: red

Congress Information System
For the Joint International Neurogastroenterology and Motility Meeting, the web based Congress Information System CO CONGRESS ONLINE® has been installed:
► www.ngm2012.org

The delegates can set up and print out their personal congress programme schedule. CO CONGRESS ONLINE® provides:
► Programme by day
► Programme by format
► Programme search
► List of participants (who is who)
► List of exhibitors and sponsors
► General congress information
► Private mailbox
**Congress Language**
The official language of the Joint International Neurogastroenterology and Motility Meeting is English.

**Certificate of Attendance**
A certificate of attendance or CME certificate will be handed out upon request at the registration counter.

**Abstract Book**
All abstracts are published in an abstract book which is a supplement to the Journal of Neurogastroenterology & Motility. Participants will receive a copy of the final programme and the abstract book or abstract CD ROM with the congress material.

**Abstract CD ROM**
The abstract CD ROM is supported by Almirall.

**Programme Changes**
The organisers cannot assume liability for any changes in the conference programme due to external or unforeseen circumstances.

**Speakers Centre**
The Speakers Centre is located in meeting room 3 on the corridor level 1, between Sala Maggiore and Palazzo dei Congressi. Speakers are asked to hand in their CD-ROM or USB stick containing the PowerPoint presentation (IBM format or compatible, no multisession) preferably one day before their presentation, but at the latest three hours prior to their presentation. Due to time and technical reasons, we kindly ask the speakers not to use their own notebook. In the Speakers Centre there are several PC working stations where speakers can also work on their presentation charts in a quiet area. Technical staff will be happy to assist you.

**Opening hours**
- Thursday, 6 September 2012 11:00 – 19:00
- Friday, 7 September 2012 06:30 – 18:00
- Saturday, 8 September 2012 06:30 – 18:00

**Poster Exhibition**
Poster sessions will be held on Friday, 7 September 2012 and Saturday, 8 September 2012 in the foyers of Sala Maggiore, level 2. These sessions offer an effective forum for the exchange of information and a means to communicate ideas, research and programmes.

Poster authors are required to be available for presentation at their poster board during their poster session between 12:30 – 14:30.

Posters will be changed daily and are on display for the entire day of the respective poster session. The poster exhibition is open to all registered delegates:

**Poster exhibition times**
- Friday, 7 September 2012 09:00 – 18:00
- Saturday, 8 September 2012 09:00 – 18:00

**Poster presentation times**
- Friday, 7 September 2012 12:30 – 14:30
- Saturday, 8 September 2012 12:30 – 14:30

Interested participants can meet the authors for discussions of their poster presentation during the time of the poster presentation.

**Set-up and dismantling times for posters**
Posters need to be set-up and dismantled on the day of the respective poster session within the following times:

**Set-up:**
- Friday, 7 September 2012 07:30 – 09:00
- Saturday, 8 September 2012 07:30 – 09:00

**Dismantling:**
18:00 – 19:00 on the day of the presentation.
Posters which have not been removed within the indicated dismantling time will be disposed of.

**Technical Exhibition**
The Joint International Neurogastroenterology and Motility Meeting will be accompanied by a major technical exhibition taking place in the Sala Maggiore, level 1 of the Nuovo Polo Congressuale.

**Exhibition hours**
- Friday, 7 September 2012 09:00 – 18:00
- Saturday, 8 September 2012 09:00 – 18:00
Congress Information

Internet Centre/Wireless Lan
Internet terminals are available in the exhibition area in Sala Maggiore. Wireless Lan/WiFi is available throughout the congress centre.

Coffee Breaks
Coffee and tea will be served free of charge to all registered delegates during the morning and afternoon coffee breaks on Friday, 7 September 2012 and Saturday, 8 September 2012. Coffee stations are located in the exhibition area.

Lunch Breaks
Lunches are served for registered participants on Friday, 7 September 2012 and Saturday, 8 September 2012 from 12:30 – 14:30. The catering stations are located in the exhibition area.

Mobile Phones
Participants are kindly requested to keep their mobile phones turned off while attending the scientific sessions in the meeting rooms.

Cloakroom
A cloakroom can be used free of charge from Thursday, 6 September 2012 – Saturday, 8 September 2012. Participants can also store their luggage here. The cloakroom is located next to the registration counter in Sala Maggiore at the Nuovo Polo Congressuale.

Hotel Reservations
Hotel accommodation can be reserved at the congress counter.

Public Transportation
Upon registration at the registration counter, all participants will receive a voucher and in exchange a public transportation pass valid for all public transportation during the congress period, from Thursday, 6 September through Saturday, 8 September 2012. Most of the hotels available are located either close to the congress centre or in the city centre within 20 to 30 minutes transport time by bus. A time table of the public busses to the venue is provided in the congress bags. Please take bus line 28 to the venue. The bus stop located in Piazza Costituzione is named “Fiera – Palazzo Congressi”.

Shuttle Busses
In addition to public transportation morning and evening bus shuttles (limited number of seats) are available. A detailed overview and time table is in your congress bag.

Parking
Please use the parking ground with access from Via Calzoni. The parking fee is EUR 16 per day. There is also a public parking located in Piazza Costituzione with the same daily parking fee.

Taxis
Taxis are available at the entrance of the Nuovo Polo Congressuale.

Bank/ATM machines
Bank and ATM machines can be found within walking distance of the congress centre.

Currency
The official Italian currency is EUR. Credit cards are widely accepted.

Climate
Bologna has a continental climate, without any influence from the seaside. The average temperature during the day in early September is 24° Celsius.

First Aid
First Aid will be provided in the congress centre. In case of an emergency please contact the congress counter.

Insurance/Liability
The organiser does not accept any liability for damages and/or loss of any kind which may be incurred by the congress participants or by any person accompanying them during either the official activities or excursions. Delegates participate in all tours/events at their own risk. Participants are advised to take out insurance against loss, accidents or damage that could be incurred during the congress.
The purpose of the Gut Microbiota & Health Section of the European Society of Neurogastroenterology and Motility (ESNM) is to raise recognition and expand knowledge & interest in the field of Gut Microbiota & Health. To achieve this, the section will:

- Stimulate & encourage research in the field of Gut Microbiota & Health.
- Provide a forum for dissemination of novel discoveries in Gut Microbiota & Health.
- Promote science & educational activities to widely disseminate the knowledge in this field.

THE GUT MICROBIOTA FOR HEALTH EXPERTS EXCHANGE

An open and participatory web platform to share news, innovations and informations between experts and health care professionals interested in Gut Microbiota.

Offers a selection of current topics of conversation organized around cross-cutting themes of: digestive health, immune function, metabolic conditions, gut brain axis, research tools, trends and discoveries, and nutrition.

TO FIND OUT MORE & REGISTER:
www.gutmicrobiotaforhealth.com

THE GUT MICROBIOTA FOR HEALTH SUMMIT

Set up by the GM&H Section, the first summit (Evian, France, March 2012) has reached its objectives and has provided a forum for dissemination of novel discoveries in Gut Microbiota & Health among the medical community.

Save the date
The next GMFH Summit: Madrid, Feb 24th to 26th 2013
Welcome Reception

Date: Thursday, 6 September 2012 20:30
Venue: Palazzo dei Congressi, Foyer Europa

All participants and accompanying persons are invited to the Welcome Reception of NGM 2012 taking place in Foyer Europa at the congress venue Nuovo Polo Congressuale. The Welcome Reception offers the opportunity to meet colleagues from all over the world in a casual atmosphere. Typical Italian dishes and drinks will be provided.

Visit of Bologna University Museum

Date: Friday, 7 September 2012 20:15 – 21:15
Venue: Archiginnasio palace – public library

Prior to the congress dinner, interested delegates are kindly invited to visit the Bologna University museum. English speaking guides will show you around. The visit is followed by a reception with local food and beverages. After the reception, hostesses will guide you to Palazzo Re Enzo, which is within 5 minutes walking distance from the museum.

The Archiginnasio palace is among Bologna’s most significant monuments due to its architectural and artistic characteristics. It has always been a symbol of the city’s culture, having been seat of the old university from 1563 to 1803, and from 1838 the Civic Library.

Address:
Archiginnasio public library
Piazza Galvani 1
40124 Bologna

No pre-registration necessary

Congress Dinner

Date: Friday, 7 September 2012 21:00
Venue: Palazzo Re Enzo

The Congress Dinner will take place at the Palazzo Re Enzo. Located in the heart of the medieval city centre of Bologna, the historical building of the 13th century is one of Bologna’s most prestigious venues. Experience the unique atmosphere of a very popular Bologna venue. After a reception, a typical Italian 3-course menu accompanied by local Italian wines will be served in the beautiful Salone del Podestà. The dinner is partially supported by Italchimica SpA.

Cost contribution per person: EUR 35

A limited number of tickets is still available. Please contact the counter the day before, on 6 September 2012.
City of Bologna

Bologna lies between the Po River and the Apennine Mountains of Northern Italy. The city is situated 52 km/32 miles south of Ferrara, 151 km/94 miles south-west of Venice and 378 km/234 miles north of Rome. It is the seventh largest city in terms of population and it is the heart of a metropolitan area of about 1,000,000 inhabitants. It is home to prestigious cultural, economic and political institutions as well as one of the most impressive trade fair districts in Europe.

Bologna is well-known for its food and for its politics, and is now regarded to be one of the most attractive cities in Italy, being full of character. The beautiful city centre of Bologna is well preserved and maintained, and is a credit to the city’s policy of preservation. The historic city of Bologna is divided up into districts and the city centre is separated from the rest of the city by large, ancient walls.

With unified architecture and marbled pavements, this charming Emilian city is well pedestrianised and easily explored by foot. From the city’s two main squares Piazza Maggiore and Piazza del Nettuno located in the heart of Bologna, most of the city’s main tourists attractions and historical monuments are within walking distance. Bologna is a thriving university city and the enormous University of Bologna is World’s oldest, founded over 900 years ago.

Half-Day Tour: Bologna Historical Centre

**Date:** Thursday, 6 September 2012 15:00 – 18:00 h
Friday, 7 September 2012 15:00 – 18:00 h

**Meeting point:** Piazza del Nettuno
(in front of Neptune statue)
Incl. English speaking guide

**Price:** EUR 15 per person

Guided walking tour of Bologna historical centre. Starting from the heart of the town Piazza Maggiore, you will visit the major buildings such as Palazzo d’Accursio, Palazzo Re Enzo, Palazzo del Podestà, San Petronio, Fontana del Nettuno, Palazzo dei Notai and the magnificent Palazzo de’ Banchi. Besides you will visit the Archiginnasio and the Teatro Anatomico, the two towers and Santo Stefano complex of 7 churches.

For registered accompanying persons the Bologna Historical Centre Tour is complimentary but necessary to reserve in advance. Please contact the registration counter.
Exhibitors Floor Plan

Sala Maggiore, First Floor

to the lecture hall Sala Magenta and poster exhibition on the 2nd floor
to the registration area on the ground floor
to the Sala Italia, Meeting Room 1 and 2, Speakers Centre and Europauditorium in the Palazzo dei Congressi
Exhibitors in alphabetical order
(as of August 2012)

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Acknowledgements

The organisers gratefully acknowledge the support of the following companies:

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Steigerwald Arzneimittelwerk GmbH
SymbioPharm GmbH
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**Abbreviations**

- **L**: Lectures
- **WS**: Workshops
- **OP**: Oral Presentations
- **PS**: Poster Sessions
- **IG**: Interest Groups
- **SA**: Satellite Symposia
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