

NGM 2012

2012 Joint International Neurogastroenterology and Motility Meeting

6 – 8 September 2012 // Bologna, Italy

Nuovo Polo Congressuale, Palazzo dei Congressi and Sala Maggiore



Final Programme

www.ngm2012.org



European Society of
Neurogastroenterology
and Motility



American Neurogastroenterology and Motility
Society/Functional Brain-Gut Research Group

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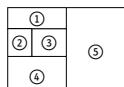
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Comune di Bologna – Piazza Maggiore

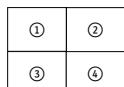
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Back cover



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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.



Vincenzo Stanghellini

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



ANMS – American Neurogastro-
enterology and Motility Society
► www.motilitysociety.org



endorsed by



ALMA MATER STUDIORUM
UNIVERSITY OF BOLOGNA



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
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

Congress Venue

Nuovo Polo Congressuale
Palazzo dei Congressi and Sala Maggiore
Piazza della Costituzione N°4/a
40128 Bologna, ITALY
► 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 Dumitrescu, 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:

| CME points | Full day | Half day |
|------------------|----------|----------|
| 6 September 2012 | | 3 points |
| 7 September 2012 | 6 points | 3 points |
| 8 September 2012 | 6 points | 3 points |

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:

| | | |
|-----------|------------------|---------------|
| Friday, | 7 September 2012 | 09:00 – 18:00 |
| Saturday, | 8 September 2012 | 09:00 – 18:00 |



THE MISSION

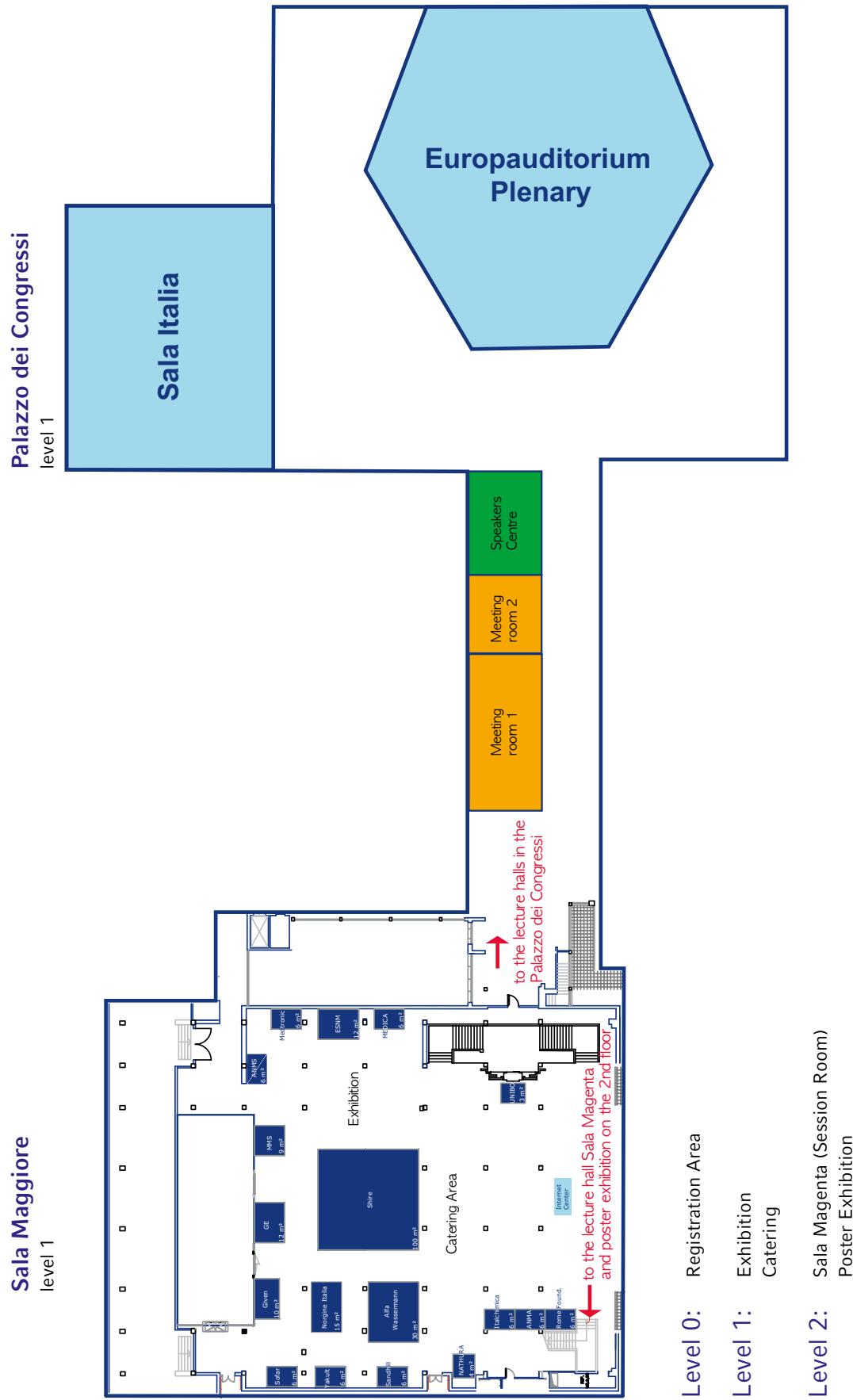
The mission of the European Society for Neurogastroenterology & Motility is to defend the interests of all professionals in Europe involved in the study of neurobiology and pathophysiology of gastrointestinal function.

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

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

Map of Venue



Programme Overview – Thursday, 6 September 2012

Abbreviations

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

| | Europauditorium | Sala Italia | Sala Magenta | Foyer |
|-------|--|--|---|--|
| 14:00 | | | | |
| 15:00 | WS-03 Stress mechanisms in GI functional and motility disorders | WS-14 Global and cross-cultural perspectives in FGID | WS-02 Controversies in smooth muscle electrophysiology | 11:00 – 20:00 Registration on ground level of Sala Maggiore |
| 16:00 | | Coffee Break | | |
| 17:00 | OP-01 Sensory afferents and pain mechanisms in the GI tract | OP-02 Functional GI disorders | OP-03 Interstitial cells of Cajal | |
| 18:00 | | | | |
| 19:00 | | SA-01 Thinking differently: Neuro-gastroenterological perspectives in chronic constipation // Shire Symposium | | |
| 20:00 | Opening Ceremony followed by L-00 The future of (Neuro) Gastroenterology | | | |
| 21:00 | | 20:30 – 22:00 Welcome Reception at the Europa Foyer in front of the Europauditorium | | |
| 22:00 | | | | |

Programme Overview – Friday, 7 September 2012

| Europauditorium | Sala Italia | Sala Magenta | Foyer |
|-----------------|--|--|--|
| | | | |
| 7:00 | | IG-01 Rome Foundation | IG-02 Best of LBBB 2012 |
| 8:00 | | | |
| 8:00 | L-01 Advances in clinical research | | |
| 9:00 | L-02 Advances in basic research | | |
| 10:00 | OP-04 Clinical plenary session | | |
| 10:00 | L-03 Neural mechanism of visceral sensation | | |
| 11:00 | | Coffee Break | |
| 11:00 | OP-05 Basic and transiational plenary session | | |
| 12:00 | | | |
| 13:00 | | Poster Sessions/Lunch Break PS-01 – PS-17 | |
| 14:00 | | | |
| 15:00 | WS-01 Marcello Tonini contribution to the study of the intestinal peristalsis | WS-12 Shortcomings and promises of current and future therapies | WS-13 Molecular and environmental factors in enteric neuropathies |
| 16:00 | | Coffee Break | |
| 17:00 | OP-06 Pharmacotherapy, pharmacology and alternative therapies | OP-07 Esophageal physiology and pathophysiology | OP-08 Dietary factors, obesity, hormones and receptors |
| 18:00 | | | |
| 18:00 | WS-07 Immune-nerve interactions | WS-09 Esophageal and swallowing disorders | WS-08 Rise and fall of the enteric nervous system |
| 19:00 | | | |
| 20:15 | | Visit of Bologna University Museum | |
| 21:15 | | | |
| 21:00 | | Congress Dinner at Palazzo Re Enzo | |
| 24:00 | | | |

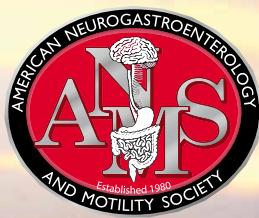
Programme Overview – Saturday, 8 September 2012

| | Europauditorium | Sala Italia | Sala Magenta | Foyer |
|-------|--|---|---|---|
| 7:00 | | IG-03 Interstitial cells of Cajal (ICC) | IG-04 New diagnostic techniques | 06:30 – 19:30 Registration on ground level of Sala Maggiore |
| 8:00 | | Meeting Room 1 ESNM – General Assembly for members only | | 09:00 – 18:00 Exhibition and posters on level 1+2 of Sala Maggiore |
| 9:00 | | | | |
| 10:00 | OP-09 Barrier function and neuro-immune interactions | OP-10 IBS microenvironmental factors | OP-11 ENS and Glia: Physiology and pathophysiology | |
| 11:00 | | Coffee Break | | |
| 12:00 | SA-03 Identifying the IBS patient with bile acid malabsorption and diarrhoea – Optimising patient care through accurate and timely diagnosis // GE Healthcare | SA-02 Gut microbiome-brain axis // Danone | | |
| 13:00 | | Poster Sessions/Lunch Break PS-18 – PS-35 | | |
| 14:00 | | | | |
| 15:00 | WS-06 Nutrient sensing and endocrine function in the GI tract | WS-04 Advances in structural biology, pathophysiology and diagnosis of the anorectum | WS-05 Pain mechanisms | |
| 16:00 | | Coffee Break | | |
| 17:00 | OP-12 Colonic intestinal and anorectal dysfunction | OP-13 Psychological factors and stress, human studies | OP-14 CNS and the brain-gut axis | |
| 18:00 | | | | |
| 19:00 | WS-15 Pediatric Neurogastro-enterology | WS-11 Peripheral mechanisms of IBS | WS-10 Moving beyond nerves and muscle | |

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

Tadataka 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.

Scientific Programme – Thursday, 6 September 2012

| WS-03 | Workshop | WS-02 | Workshop |
|---|-----------------|---|-------------------|
| 14:30–16:00 | Europauditorium | 14:30–16:00 | Sala Magenta |
| Stress mechanisms in GI functional and motility disorders | | Controversies in smooth muscle electrophysiology | |
| Chairs: L. Bueno, France E. Mayer, USA | | Chairs: J. Chen, USA J. Szurszewski, USA | |
| 001 14:30 Epidemiology of acute and chronic stress on upper and lower FGID L. van Oudenhove, Belgium | | 001 14:30 Introductory and historical notes J. Szurszewski, USA | |
| 002 14:50 Neurobiological mechanisms of stress and emotions in FGID E. A. Mayer, USA | | 002 14:40 Fact G. O'Grady, New Zealand | |
| 003 15:10 Molecular mediators of stress in FGID Y. Taché, USA | | 003 15:00 Artifact K. Sanders, O. Bayguinov, G. Hennig, S. Ward, USA | |
| 004 15:30 Molecular basis of the relationship between early life stress and FGID J. Cryan, Ireland | | 004 15:20 Electrogastrography: Is it valid? A. Smout, The Netherlands | |
| | | 005 15:35 Discussion | |
| | | 006 15:55 Concluding remarks J. Szurszewski, USA | |
| WS-14 | Workshop | OP-01 | Oral Presentation |
| 14:30–16:00 | Sala Italia | 16:30–17:45 | Europauditorium |
| Global and cross-cultural perspectives in FGID | | Sensory afferents and pain mechanisms in the GI tract | |
| Chairs: E. Quigley, Ireland N. Talley, Australia | | Chairs: F. Azpiroz, Spain S. Vanner, Canada | |
| 001 14:30 Ethno-cultural and socio-economic perspectives of Irritable Bowel Syndrome (IBS) in Asia K-A Gwee, Singapore | | 001 16:30 Acid sensitivity in the spinal DRG nociceptors innervating the esophagus M. Kollarik, F. Ru, S. Grobarcikova, USA | |
| 002 14:50 Latin-America M. Schmulson, Mexico | | 002 16:45 A novel technique to retrogradely label and record from nociceptive nerve endings that detect noxious stimuli from specific targets sites in the gastrointestinal tract N. Spencer, L. Travis, M. Kyloh, Australia | |
| 003 15:10 Middle East A. Sperber, Israel | | 003 17:00 P2Y mediated activation of mouse and human sensory nerves: Critical role for Nav1.9 J. Hockley, C. McGuire, G. Boundouki, C. Knowles, M. Baker, W. Winchester, D. Bulmer, United Kingdom | |
| 004 15:30 Rest of the World – A global perspective N. Talley, Australia | | | |

Thursday, 6 September 2012 – Scientific Programme

| OP-02 | Oral Presentation | OP-03 | Oral Presentation |
|---|-------------------|---|-------------------|
| 16:30–17:45 | Sala Italia | 16:30–17:45 | Sala Magenta |
| Functional GI disorders | | Interstitial cells of Cajal | |
| Chairs: G. Corazza, Italy J. Tack, Belgium | | Chairs: M. Faussone Pellegrini, Italy S. Ward, USA | |
| 001 16:30 Correlates of temporal variability of symptoms in gastroparesis W. Hasler, P. May, P. Pasricha, H. Parkman, T. Abell, K. Koch, R. McCallum, I. Sarosiek, L. Nguyen, W. Snape, J. Calles, G. Farrugia, J. Tonascia, L. Lee, A. Unalp-Arida, F. Hamilton, 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 Reconfiguring the Gastroparesis Cardinal Symptom Index (GCSI) H. Parkman, L. Wilson, P. Pasricha, K. Koch, W. Snape, T. Abell, W. Hasler, L. Lee, L. Nguyen, R. McCallum, I. Sarosiek, G. Farrugia, A. Unalp-Arida, J. Tonascia, F. Hamilton, 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 Gastrointestinal symptoms in the joint hypermobility syndrome A. Fikree, R. Aktar, R. Grahame, Q. Aziz, United Kingdom | | 003 17:00 Nitrogenic relaxation via ICC, FLC and SMC: Studies in mice lacking NO-sensitive guanylyl cyclase A. Fribe, P. König, B. Lies, D. Groneberg, Germany | |
| 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 | | 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 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. Ravaioli, A. Cucchetti, A. Dazzi, V. Stanghellini, L. Pironi, A. D. Pinna, Italy | | 005 17:30 Establishment of pacemaker activity in tissues allografted with interstitial cells of Cajal S. Ward, C. McCann, S.-J. Hwang, Y. Bayguinov, K. Sanders, USA | |

Scientific Programme – Thursday, 6 September 2012

| SA-01 | Satellite Symposium | L-00 | Plenary Lecture |
|---|---------------------|--|--|
| 18:00–19:30 | Sala Italia | 19:45–20:30 | Europauditorium |
| Thinking differently: Neurogastroenterological perspectives in chronic constipation | | 19:45 Opening Ceremony | |
| Chairs: E. Corazziari, Italy C. Scarpignato, Italy | | The future of (Neuro)Gastroenterology | |
| 001 18:00 Welcome and introduction C. Scarpignato, Italy | | Chair: V. Stanghellini, Italy | |
| 002 18:10 Burden of chronic constipation E. Corazziari, Italy | | 001 20:00 Introduction V. Stanghellini, Italy | |
| 003 18:30 Pathophysiology of constipation M. Camilleri, USA | | 002 20:05 A look into the future of (Neuro) Gastroenterology J. Malagelada, Spain | |
| 004 18:50 Chronic constipation: Current treatments and future perspectives C. Scarpignato, Italy | | | Followed by a Welcome Reception at the Europa Foyer in front of the Europauditorium. |
| 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.

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 | | |
| 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. Elsenbruch, 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 M. Camilleri, M. Vazquez-Roque, P. Carlson, J. Lamsam, D. D. Burton, J. A. Murray, J. O'Neill, T. C. Smyrk, A. R. Zinsmeister, D. Janzow, 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 P. Hughes, D. Bird, S. Brierley, J. Persson, M. Moretta, L. A. Blackshaw, H. Zola, D. Krumbiegel, J. Andrews, Australia | | |
| 002 11:15 Duodenal low-grade inflammation and impaired mucosal integrity in functional dyspepsia patients H. Vanheel, M. Vicario, C. Martinez, T. Vanuytsel, N. Pardon, J. Santos, J. Söderholm, J. Tack, R. Farré, Belgium | | |

Scientific Programme – Friday, 7 September 2012

| | |
|-----|--|
| 003 | 11:30 Identification of genetic risk factors associated with idiopathic achalasia by a genetic candidate study M. Wouters, D. Lambrechts, I. Cleynen, I. Gockel, J. Becker, J. Tack, A. Vigo, A. Ruiz de León, J. Pérez de la Serna, W. Rohof, V. Annese, A. Latiano, O. Palmieri, L. Laghi, M. Cancian, M. A. Businaro, G. Zaninotto, R. Cuomo, G. Sarnelli, M. M. Nöthen, S. Vermeire, M. Knapp, J. Schumacher, G. Boeckxstaens, Belgium |
| 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 neuropathies | |
| Chairs: R. De Giorgio, Italy J. Wiley, USA | |
| 001 | 14:30 Genetics of human enteric neuropathies 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 |

Friday, 7 September 2012 – Scientific Programme

| OP-06 | Oral Presentation | OP-07 | Oral Presentation |
|---|---|---|---|
| 16:30–17:45 | Europauditorium | 16:30–17:45 | Sala Italia |
| Pharmacotherapy, pharmacology and alternative therapies | | Esophageal physiology and pathophysiology | |
| Chairs: W. Chey, USA C. Scarpignato, Italy | | Chairs: R. Penagini, Italy D. Sifrim, United Kingdom | |
| 001 | | 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. Balembo, G. M. Mawe, USA | 16:30 Long-term sustainable symptom-free duration in Achalasia patients treated with pneumatic dilatation – A 42-year experience | M. Al-Besher, M. Li, N. Diamant, L. Liu, Canada |
| 002 | | 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 | 16:45 Three-dimensional volume of inverted impedance (3D-VII): A novel method to measure bolus transit using high-resolution impedance manometry | K.-W. Jung, S.-Y. Joo, H.-Y. Jung, S.-J. Myung, I.-J. Yoon, S.-Y. Seo, H.-S. Koo, K.-D. Choi, H.-J. Song, G.-H. Lee, J.-H. Kim, Republic of Korea |
| 003 | | 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 | 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 | | 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. Schiff, B. Lavins, C. Kurtz, H. Schneier, M. Currie, J. Johnston, USA | 17:15 Alterations in esophageal motility post-lung transplantation | Y. Nasser, M. Thakrar, D. Helmersen, M. Storr, C. Andrews, Canada |
| 005 | | 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 | 17:30 Impact of deep brain stimulation on oesophageal motility: Result of a randomized cross-over study | G. Gourcerol, S. Derrey, N. Chastan, D. Maltete, E. Verin, P. Freger, A. M. Leroi, J. Weber, France |

Scientific Programme – Friday, 7 September 2012

| OP-08 | Oral Presentation | |
|---|---|--|
| 16:30–17:45 | Sala Magenta | |
| Dietary factors, obesity, GI hormones and receptors | | |
| Chairs: R. Cuomo, Italy B. Spiegel, USA | | |
| 001 | | |
| 16:30 Loss of intestinal sweet taste receptor control in type 2 diabetes: A risk factor for postprandial hyperglycemia? | R. Young, B. Chia, T. Wu, H. Michael, C. Rayner Australia | |
| 002 | | |
| 16:45 The serotonin transporter (SERT) critically modulates serotonergic signaling in intestinal inflammation and motility: Effects of a gain-of-function mutation in SERT | K. Gross Margolis, Z. S. Li, K. Stevanovic, R. Blakely, J. Veenstra-Vanderweele, Q. M. Yang, B. Zambrowicz, T. Oravecz, M. Gershon, USA | |
| 003 | | |
| 17:00 Comparative effects of intraduodenal lipid and protein on pyloric pressures, gut hormones, blood glucose and insulin and energy intake in healthy males | C. Feinle-Bisset, A. Ryan, N. Luscombe-Marsh, A. Saies, M. Horowitz, S. Standfield, Australia | |
| 004 | | |
| 17:15 Obesity causes a switch in the origin of phase III contractions of the migrating motor complex to reduce hunger feelings | E. Deloose, P. Janssen, M. Lannoo, B. v. der Schueren, I. Depoortere, J. Tack, Belgium | |
| 005 | | |
| 17:30 Diet-induced obesity alters nerochemical code in enteric glial cells and injures enteric plexuses causing intestinal dysfunctions | P. Brun, M. C. Giron, M. Quesari, L. Spagnol, D. Pizzuti, G. Palù, I. Castagliuolo, Italy | |
| WS-07 | Workshop | |
| 18:00–19:30 | Europauditorium | |
| Immune-nerve interactions | | |
| Chairs: G. Barbara, Italy N. Vergnolle, France | | |
| 001 | | |
| 18:00 Immune modulation of visceral afferents | D. Grundy, United Kingdom | |
| 002 | | |
| 18:20 Immune modulation of the ENS | M. Schemann, Germany | |
| WS-09 | Workshop | |
| 18:00–19:30 | Sala Italia | |
| Esophageal and swallowing disorders | | |
| Chairs: M. Fox, United Kingdom P. Kahrilas, USA | | |
| 001 | | |
| 18:00 Swallowing-brain network in health and disease | R. Shaker, USA | |
| 002 | | |
| 18:20 Transcranial magnetic stimulation – A diagnostic and therapeutic tool in swallowing disorders | S. Hamdy, United Kingdom | |
| 003 | | |
| 18:40 Newer understanding of EUS function with high resolution manometry | I. Cook, Australia | |
| 004 | | |
| 19:00 Neonatal development of swallowing function & reflexes | S. Jadcherla, USA | |
| WS-08 | Workshop | |
| 18:00–19:30 | Sala Magenta | |
| Rise and fall of the enteric nervous system | | |
| Chairs: J. Bornstein, Australia P. Pasricha, USA | | |
| 001 | | |
| 18:00 Neuronal control of enteric neuronal development: Early neuronal activity sculpts subsequent Enteric Nervous System (ENS) development | M. D. Gershon, USA | |
| 002 | | |
| 18:20 Development and degeneration of specific subsets of enteric neurons | H. Young, Australia | |
| 003 | | |
| 18:40 Ongoing development of the ENS | A. Burns, United Kingdom | |
| 004 | | |
| 19:00 Enteric neurodegeneration in diabetes and obesity | S. Srinivasan, USA | |

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**
 T. Vanuytsel, C. Vanormelingen, H. Vanheel, S. Salim Rasool, J. Toth, L. Notari, T. Shea-Donohue, P. Vanden Berghe, T. Masaoka, R. Farré, J. Tack, Belgium

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

005

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

006

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**
 P. Bercik, J. Lu, E. F. Verdu, Y. Deng, C. Wang, M. G. Surette, G. Bergonzelli, P. McLean, S. M. Collins, Canada

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. Buhner, 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

Scientific Programme – Saturday, 8 September 2012

- 006
10:30 Clinically meaningful change benchmarks for IBS-C symptoms developed using data from two phase 3 trials of linaclootide
B. M. R. Spiegel, G. Locke, C. M. Kurtz,
V. S. L. Williams, L. M. Nelson, R. T. Carson,
M. G. Currie, H. A. Schneier, J. M. Johnston, USA
- OP-11 Oral Presentation**
- 09:15–10:45 Sala Magenta
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 Glial 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. Vargiuoli,
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. Auksorius, G. Tearney, A. Goldstein,
France

| 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

Saturday, 8 September 2012 – Scientific Programme

| SA-02 | Satellite Symposium | WS-04 | Workshop |
|---|---------------------|---|-------------|
| 11:00–12:30 | Sala Italia | 14:30–16:00 | Sala Italia |
| Gut microbiome-brain axis | | Advances in structural biology, pathophysiology and diagnosis of the anorectum | |
| Chairs: F. Azpiroz, Spain P. Enck, Germany | | Chairs: K. Bitar, USA P. Enck, Germany | |
| 001 Gut microbiota as an organ of the host? J. Dore, France | | 001 Structure and function in neuroregulation of the anorectum K. Keef, USA | |
| 002 Effect on gut motility, permeability and sensitivity G. Barbara, Italy | | 002 Artificial anal sphincter: A biologic plausibility K. Bitar, USA | |
| 003 Effect of gut microbiota on CNS and behavior: Implications for gut functional disorders P. Bercik, Canada | | 003 Pathophysiology of incontinence and dyssynergic defecation A. Bharucha, USA | |
| 004 Crosstalk between gut microbiota and the human brain: Possible implications for GI symptoms E. Mayer, USA | | 004 High definition 3-D anorectal manometry – How useful? S. Rao, USA | |

Supported by an educational grant from Danone

| WS-06 | Workshop | WS-05 | Workshop |
|---|-----------------|---|--------------|
| 14:30–16:00 | Europauditorium | 14:30–16:00 | Sala Magenta |
| Nutrient sensing and endocrine function in the GI tract | | Pain mechanisms | |
| Chairs: F. Gribble, United Kingdom A. Page, Australia | | Chairs: B. Greenwood-Van Meerveld, USA D. Grundy, United Kingdom | |
| 001 14:30 Taste receptors and signalling in the GI tract C. Sternini, USA | | 001 14:30 Neural pathways of visceral pain J. Wood, United Kingdom | |
| 002 14:50 Nutrient sensing by enteroendocrine cells H. Raybould, USA | | 002 14:45 Peripheral mechanisms A. Blackshaw, United Kingdom | |
| 003 15:10 Metabolic effects of GI hormones I. Depoortere, Belgium | | 003 15:00 Peripheral mechanisms of visceral hyperalgesia N. Vergnolle, France | |
| 004 15:30 Therapeutic modulation of satiety J. Tack, Belgium | | 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 | | |
| 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. Boundouki, J. Hockley, C. McGuire, C. Knowles, Q. Aziz, M. Baker, D. Bulmer, United Kingdom | | |
| 003 | | |
| 17:00 Sacral parasympathetic input to guinea-pig colon | | |
| S. Brookes, K. Hendy, J. Salvi, A. Wadey, P. Dinning, V. Zagorodnyuk, N. Spencer, Australia | | |

Saturday, 8 September 2012 – Scientific Programme

| | WS-11 | Workshop |
|-------|--|---|
| 004 | | |
| 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 | 18:00–19:30 Sala Italia |
| 005 | | |
| 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 | 18:00 The putative role of the microbiome in Irritable Bowel Syndrome S. Collins, Canada |
| 001 | | |
| 002 | | |
| 003 | | |
| 004 | | |
| WS-15 | Workshop | 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 | 18:00–19:30 Sala Magenta |
| 002 | 18:20 Microbial signatures in pediatric IBS and relationship to symptoms R. Shulman, USA | Moving beyond nerves and muscle Chairs: G. Farrugia, USA J. Huizinga, Canada |
| 003 | 18:40 Functional dyspepsia in children - New pathophysiology mechanisms and therapies A. Staiano, Italy | 18:00 Fibroblast-like cells in purinergic neurotransmission S. Ward, USA |
| 004 | 19:00 What keeps children constipated M. Benninga, The Netherlands | 18:15 Spontaneous electrical activity of fibroblast-like cells Y. Kito, Japan |
| | | 18:30 Mast cells and macrophages T. Shea-Donohue, USA |
| | | 18:45 Development and plasticity of ICC T. Oordog, USA |
| 005 | | |
| | | 19:00 Blood-brain barrier of the little brain M. Neunlist, France |
| WS-10 | Workshop | Workshop |

Poster Presentations – Friday, 7 September 2012

| PS-01 | Poster Session | |
|--|--------------------|--|
| 12:30 - 14:30 | Foyer Sala Magenta | |
| Basic and translational session: Glial and enteric neurons in health and disease | | |
| Discussants: G. Boeckxstaens, Belgium S. Brookes, Australia C. Knowles, United Kingdom | | |
| 001 In vivo neural regeneration and neurogenesis promoted by 5-HT4 receptor activation M. Takaki, H. Kuniyasu, I. Kawahara, K. Goto, H. Matsuyoshi, Japan | 009 | Supernatant of human ulcerative colitis biopsies have pro-angiogenic properties: Role of enteric glial cells M. Rolli-Derkinderen, I. Corre, R. Soret, M. Biraud, A. Bourelle, M. Neunlist, France |
| 002 Mechanosensitive myenteric neurons in the guinea pig gastric corpus G. Mazzuoli, M. Schemann, Germany | 010 | Enteric neuroplasticity of seawater-adapted European eel "(Anguilla anguilla) experimentally induced to sexual maturation R. Chiocchetti, C. Sorteni, O. Portnoy, R. Sirri, P. Clavenzani, O. Mordini, A. Di Biase, A. Parmeggiani, R. De Giorgio, Italy |
| 003 Pancreatic cancer cells secrete CXCL12 which is chemoattractive upon peripheral neural glia: Reversal of a paradigm I. E. Demir, K. Kujundzic, T. Kehl, H. Friess, G. O. Ceyhan, Germany | 011 | Pain and neural remodelling in pancreatic neuropathy are characterized by increased unmyelinated nerve fiber content and selective glial activation I. E. Demir, G. O. Ceyhan, K. Wang, C. Waldbaur, H. Friess, Germany |
| 004 Alpha-synuclein is constitutively secreted from enteric neurons and impacts on intestinal epithelial barrier S. Paillusson, M. Neunlist, P. Derkinderen, France | 012 | Neurogenesis: Granulocyte colony-stimulating factor facilitates neural stem cell differentiation A. Schuster, T. Schwab, R. Lilischkis, A. Schneider, K.-H. Schäfer, Germany |
| 005 Expression of P2X3 subunit during ontogenetic development of murine and guinea pig myenteric plexus R. Loera Valencia, C. Barajas-López, R. Guerrero-Alba, E. C. Villalobos-Hernández, E. Hazaél Juarez, R. Espinosa-Luna, J. D. Huizinga, Mexico, Canada | 013 | Apoptotic action of salsolinol on myenteric plexus neurons in the rat intestine M. Kurnik, K. Gil, A. Bugajski, P. Thor, Poland |
| 006 M3- and NK1-receptor facilitation of [³H]-acetylcholine release from myenteric motoneurons depends on extracellular adenosine accumulation acting on prejunctional A2a receptors P. Marques, I. Silva, C. Vieira, M. Duarte-Araújo, F. Ferreira, T. Magalhães-Cardoso, P. Correia-de-Sá, Portugal | 014 | Effects of anti-cancer chemotherapy on gastrointestinal motility and enteric neurons in the mouse colon K. Nurgali, L. Wafai, M. Taher, H. Jarra, R. McQuade, V. Jovanovska, C. R. Dass, Australia |
| 007 Enteric glial cells from patients with Crohn's Disease misreact to inflammation and induce intestinal epithelial cell permeability M. Rolli-Derkinderen, T. Clairembault, S. Coquenlonge, B. Lardeux, J. Jaulin, M. Biraud, M. Neunlist, France | 015 | Oxytocin hyperpolarizes cultured duodenum myenteric intrinsic primary afferent neurons by opening BKCa channels through IP3 pathway C. Liu, T. Che, H. Sun, J. Li, W. Kunze, M. Zhang, China, Canada |
| 008 Glial cell line derived neurotrophic factor prevents high fat diet induced obesity S. Mwangi, B. Nezami, B. Obukwelu, M. Anitha, S. Marri, P. Fu, M. Shanmugam, S. Sitaraman, F. Anania, S. Srinivasan, USA | 016 | The appendix, a suitable and autologous neural stem cell source C. Hagl, S. Heumüller, E. Wink, K. Kaiser, K.-H. Schäfer, Germany |
| | 017 | Alterations of colonic cholinergic and tachykininergic motility in a rat model of Parkinson's Disease C. Blandizzi, M. Fornai, C. Pellegrini, L. Antonioli, G. Levandis, R. Colucci, G. Giustarini, F. Blandini, Italy |
| | 018 | A D-galactose mouse model of dysmotility: Spatiotemporal motility mapping and intrinsic primary afferent neuron function W. Kunze, Y.-K. Mao, Y. Wu, B. Wang, Canada |

- 019 Enteroglia derived S100B protein modulates differentiation, proliferation and nitrosative stress of human intestinal epithelial cells in a rage-dependent manner**
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**
E. J. de Almeida Araujo, R. Gouveia, M. Biondaro Gois, A. Vieira da Silva, J. Nelis Zanoni, D. d. Mello Gonçales Santana, Brazil
- 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 Andrade, 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**
B. Southwell, N.-A. Ijap, M. French, Y. I. Yik, P. Farmer, D. Bodemer, J. M. Hutson, Australia, Malaysia
- 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. Wattchow, P. Dinning, Australia
- 030 Psychosocial chronic stress induces intestinal dysmotility and changes in enteric nervous system in proximal colon**
B. Lobo, M. Tramullas, B.-C. Finger, K. W. Lomasney, J. Santos, N. P. Hyland, T. Dinan, J. F. Cryan, Spain, Ireland
- 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 and 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. Mastropaoletti, 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

| PS-02 | Poster Session |
|---|--------------------|
| 12:30–14:30 | Foyer Sala Magenta |
| Basic and translational session: Small intestine, colon and anorectum: Physiology and pathophysiology | |
| Discussants: M. Costa, Australia P. Pasricha, USA M. Schemann, Germany | |
| 025 Characterization of smooth muscle, enteric nerve, interstitial cells of Cajal, and fibroblast-like cells in the gastric musculature of the patients with diabetes mellitus J.-G. Kwon, J. T. Jung, E. Y. Kim, H. G. Kim, K. S. Park, J. H. Park, I. S. Hwang, B. I. Jang, K. O. Kim, S. W. Jeon, S. R. Jee, Republic of Korea | |

Poster Presentations – Friday, 7 September 2012

| PS-03 | Poster Session | PS-04 | Poster Session |
|---|--------------------|---|--------------------|
| 12:30–14:30 | Foyer Sala Magenta | 12:30–14:30 | Foyer Sala Magenta |
| Basic and translational session: Appetite regulation, satiety, obesity and nutrition | | Basic and translational session: Gastric physiology, pathophysiology | |
| Discussants: I. Depoortere, Belgium F. Gribble, United Kingdom H. Raybould, USA | | Discussants: M. Costa, Australia P. Pasricha, USA M. Schemann, Germany | |
| 037 Restricted feeding induces inflammation: Role of ghrelin and clock genes? J. Laermans, K. Beckers, T. Thijss, J. Tack, I. Depoortere, Belgium | | 046 Apical NKCC2 in the gastric mucosa involves gastric acid secretion T. Ji, L. Zheng, H. Xue, J. Zhu, China | |
| 038 Impact of diet-induced obesity on motor functions and myenteric neurons in mice distal colon F. Reichardt, R. Moriez, L. Gruber, G. Mazzuoli, C. Baudry, C. Scherling, H. Daniel, D. Haller, M. Neunlist, M. Schemann, Germany, France | | 047 A novel rat stomach model based on 3D shape context method based strain analysis D. Liao, J. Zhao, H. Gregersen, Denmark | |
| 039 Circadian variations in gastric vagal afferent mechanosensitivity and satiety signalling S. Kentish, G. Wittert, E. Symonds, D. Kennaway, A. Page, Australia | | 048 The effect of administration of probiotic bacteria on the composition of the mucosal gut microbiota in IBS patients J. Sundin, J. R. Brummer, W. d. Vos, S. Fuentes, I. Rangel, Sweden | |
| 040 Detection of the ghrelin activating enzyme ghrelin-O-acyltransferase (GOAT) in the human circulation and expression dependent on body weight A. Stengel, M. Goebel-Stengel, T. Hofmann, U. Elbelt, P. Kobelt, N. Lambrecht, B. Klapp, Germany | | 049 In vitro and in vivo studies on the effects of oxytocin in a rat model of functional dyspepsia R. A. Travagli, T. Babic, G. M. Holmes, K. N. Browning, USA | |
| 041 Peripheral Glucagon-like peptide 2 administration inhibits food intake in mice: Analysis of the mechanism of action S. Baldassano, A. Bellanca, R. Serio, F. Mulè, Italy | | 050 A biomagnetic technique to evaluate the effects of partial gastrectomy on gastric emptying and gastrointestinal transit time in rats M. Americo, M. F. F. Calabresi, J. F. Matos, J. R. V. Graça, C. C. Quini, O. Baffa, R. B. Oliveira, J. R. A. Miranda, Brazil | |
| 042 Evaluation of the effects of elisiglutide on the toxicity and histological damage induced by Irinotecan in normal fischer rats Y. Rustum, S. Cao, F. Durrani, K. Toth, E. Lovati, C. Pietra, USA, Switzerland | | 051 Long term kaolinite ingestion decreased gastric emptying rate as a consequence of duodenal mucosa remodeling C.-H. Malbert, S. Guérin, G. Randuineau, F. Angel, France | |
| 043 Cardiac autonomic regulation and cortisol profiles during 48-hour zero-calorie fasting P. Enck, N. Mazurak, F. Grau, A. Guenther, E. R. Muth, S. Zipfel, Germany | | 052 Age-induced changes in gastric myoelectrical activity and the effect of nicotine in ICR mice H.-C. Wang, N. Percie Du Sert, J. Rudd, Hong Kong SAR, China, United Kingdom | |
| 044 Diet and irritable bowel syndrome I. Chirila, F. D. Petrariu, I. Ciortescu, C. Mihai, V. L. Drug, Romania | | 053 Identification of the major site of action for motilin-induced contraction within the suncus stomach S. Aizawa, R. Kobayashi, M. Nagasaka, A. Mondal, I. Sakata, T. Sakai, Japan | |
| 045 Ghrelin and glucose homeostasis in perinatal low birth weight and normal weight piglets S. Willemen, M. d. Vos, V. Huygelen, C. Casteleyn, S. v. Cruchten, C. v. Ginneken, Belgium | | 054 Up-regulated β1-adrenoceptor mediates the inhibition of norepinephrine on the gastric contractility in 6-OHDA rats J. Song, L. Zheng, J. Zhu, China | |

- 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

PS-05 **Poster Session**
12:30–14:30 Foyer Sala Magenta

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

Discussants: I. Depoortere, Belgium
H. Raybould, USA
C. Scarpignato, 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**
J.-H. Park, J.-H. Park, H. Jeon, C. Sohn, J. H. Kim, Republic of Korea

- 062 **Granisetron prevents alterations of gastrointestinal motility in rats repeatedly treated with cisplatin: Radiographic study**
G. Vera Pasamontes, P. A. Cabezas, 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**
K. Nieber, S. Michael, U. Voß, S. Hoser, H. Abdel-Aziz, D. Weiser, O. Kelber, Germany
- 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**
D. Krüger, K. Michel, S. Allam, F. Zeller, I. E. Demir, G. O. Ceyhan, T. Weiser, M. Schemann Germany
- 067 **Long-term effects of otilonium bromide on tachykinin receptors, substance P and NOS expression in the rat colon muscle coat**
M.-S. Faussonne-Pellegrini, C. Traini, G. Cipriani, S. Evangelista, P. Santicioli, M. G. Vannucchi, Italy
- 068 **Effects of Butylscopolamine Bromide on nicotinic acetylcholine receptors in cultured Guinea pig enteric neurons**
T. Weiser, N. Wronna, U. Kraushaar, Germany
- 069 **Analysis of fecal microbiota and effectiveness of a probiotic, VSL#3 in patients with functional constipation: A Korean multicenter study**
S.-E. Kim, S.-C. Choi, K.-S. Park, M.-I. Park, J.-E. Shin, T.-H. Lee, K.-W. Jung, H.-S. Koo, S.-J. Myung, Republic of Korea
- 070 **Effects of TAK-480, a novel tachykinin NK2 receptor antagonist, on visceral hypersensitivity in rabbits and ricinoleic acid-induced defecation in guinea-pigs**
T. Tanaka, A. Tanaka, A. Nakamura, K. Matsushita, A. Imanishi, S. Matsumoto-Okano, N. Inatomi, K. Miura, M. Toyoda, G. Mizojiri, Y. Tsukimi, Japan

Poster Presentations – Friday, 7 September 2012

| PS-06 | Poster Session | |
|-------|---|---|
| | 12:30–14:30 | Foyer Sala Magenta |
| | Basic and translational session: Neuro-immune mechanisms | |
| | Discussants: J. Furness, Australia N. Vergnolle, France | |
| 071 | Role of 5-HT7 in intestinal muscle function and host defense in an enteric parasitic infection J. Kim, H. Wang, T. Zaman, P. B. Hedlund, J.-E. Ghia, W. I. Khan, Canada, USA | 079 Role of A2B receptors in the control of colonic cholinergic motility in the presence of bowel inflammation C. Blandizzi, L. Antonioli, M. Fornai, R. Colucci, G. Giustarini, C. Pellegrini, M. Tuccori, M. Qesari, I. Castagliuolo, P. Brun, C. Giron, C. Scarpignato, Italy |
| 072 | An investigation of the therapeutic potential of chymase-containing mast cells in a preclinical model of irritable bowel syndrome and their translational relevance N. Hyland, S. Carroll, S. Heuston, E. Quigley, J. Cryan, Ireland | 080 Changes in the intestinal wall and myenteric plexus of jejunum in rats induced by the infection by oocysts of Toxoplasma Gondii D. d. Mello Gonçales Sant'ana, L. M. Zaniolo, M. B. Gois, A. V. Da Silva, J. N. Zanoni, E. J. de Almeida Araújo, Brazil |
| 073 | Eosinophils and eosinophil-regulatory molecules as therapeutic targets for the treatment of intestinal inflammation K. Nurgali, L. Edmunds, M. Taher, V. Jovanovska, M. Ellis, J. C. Bornstein, Australia | 081 Proinflammatory cytokines from patient's with Chron's disease affect cultured enteric neurons C. Hagl, S. Häuser, S. Heumüller, E. Wink, K.-H. Schäfer, Germany |
| 074 | UC patients in remission have an altered balance between forskolin and carbachol-stimulated chloride secretion in the proximal colon despite a macroscopically normal mucosa H. Sjövall, J. Gustafsson, G. C. Hansson, Sweden | 082 The expression of immediate early genes of herpes simplex virus type 1 contributes to the neuroplasticity induced by viral infection on the enteric nervous system M. C. Giron, P. Brun, M. Qesari, F. Galeazzi, G. Zaninotto, P. Marconi, R. Manservigi, G. Palù, I. Castagliuolo, Italy |
| 075 | Do rats and mice differ regarding intestinal muscularis macrophage activation? H. Mikkelsen, S. Kirkeby, Denmark | 083 Up-regulation of IL-6-expressing macrophages in human colonic mucosal biopsies D. O'Malley, E. Quigley, J. Cryan, T. Dinan Ireland |
| 076 | Pannexin expression in human colon: Alterations in Inflammatory Bowel Disease (IBD) L. Liu, E. Diezmos, S. Sandow, P. Bertrand, Australia | 084 Proinflammatory cytokine gene polymorphisms in Greeks with irritable bowel syndrome G. Karamanolis, M. Gazouli, N. Viazis, N. Anagnou, D. Karamanolis, Greece |
| 077 | Immune factors in Irritable Bowel Syndrome plasma activate rat myenteric neurons M. Buckley, T. G. Dinan, D. O'Malley, Ireland | 085 Neuronal plasticity of lumbosacral DRG in a model of post-infectious gut dysfunction in rats F. Jardí, J. A. Fernandez-Blanco, V. Martinez, P. Vergara, Spain |
| 078 | Involvement of jejunal mucosal immunoglobulin production and plasma cell-nerve proximity in the pathogenesis of diarrhea-irritable bowel syndrome M. Vicario, J. Santos, A. M. Gonzalez Castro, M. Pigrau, C. Martinez, B. Lobo, M. Guilarte, E. Salvo-Romero, C. Frias, C. Alonso, I. De Torres, F. Azpiroz, Spain | 086 Role of immune-mediated mechanisms in psychological stress-induced colonic barrier dysfunction P. Hattay, L. Tran, B. Greenwood-Van Meerveld, USA |
| | | 087 Impairment of the adenosine fine-tuning control of acetylcholine release from myenteric motoneurons in the inflamed rat ileum C. Vieira, J. Oliveira, P. Marques, T. Magalhães-Cardoso, M. Duarte-Araújo, P. Correia-de-Sá, Portugal |

- | 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 | |
| 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 | 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 |
| 089 Pancreatic Polypeptide (PP) delays Gastric Emptying (GE) of a radio-opaque liquid meal in conscious rats S. Verschueren, P. Janssen, J. Tack, Belgium | 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. Søfteland, G. Dimcevski, H. Gregersen, A. M. Drewes, Denmark, Sweden, Norway |
| 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 | 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 |
| 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 | 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. Kasperek, B. Goetz, P. Benhaqi, J. Glatzle, M. E. Kreis, Germany |
| 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 | 102 Longitudinal assessment of colitis in the adoptive transfer mouse model using colonoscopy and μPET/CT M. Heylen, J. d. Man, S. Staelens, S. Deleye, P. Pelckmans, T. Moreels, B. d. Winter, Belgium |
| 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 | 103 An equivalent of Hypothalamic–Pituitary–Adrenal (HPA) axis exists in the colon: Expression, cellular location and regulation in mice P.-Q. Yuan, L. Wang, C. Kiank, Y. Tache, USA |
| 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 | 104 Stress reactivity in children with functional abdominal pain and healthy controls K. Weimer, M. D. Gulewitsch, A. A. Schlarb, P. Enck, Germany |
| 095 Gastrointestinal inflammation and environmental enrichment alter stress-induced activation of the corticolimbic system F. Reichmann, E. Singewald, P. Holzer, Austria | 105 Restraint stress elevates CRF expression and increases CRF release in the rat stomach S. Liu, N. Long, G. Talhouarne, K. Beckwith, S. Cooper, USA |

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- 106 **The effect of high caloric food on chronic stress responses in rat**

H.-S. Ryu, Y. S. Kim, S. C. Choi, E. S. Choi,
M. Y. Lee, Republic of Korea

- 114 **Involvement of the spleen in the anti-inflammatory effect of vagus nerve stimulation in a rat model of colitis**

C. Picq, V. Sinniger, J.-F. Mayol, D. Clarençon,
B. Bonaz, France

PS-08

Poster Session

12:30–14:30

Foyer Sala Magenta

Basic and translational session: Extrinsic neural pathways, hypersensitivity and pain

Discussants: M. Beyak, Canada
D. Grundy, United Kingdom
A. Travagli, USA

- 107 **Serum from diet induced obese mice inhibits excitability of mouse vagal afferent neurons**

M. Beyak, S. J. Park, Canada

- 108 **Identification of the classes of spinal afferents activated during spontaneous motor activity of the murine large intestine**

V. Zagorodnyuk, M. Kyloh, S. Brookes, N. Spencer,
Australia

- 109 **Mechanical and chemical stimulation of human visceral afferents**

C. McGuire, G. Boundouki, J. Hockley, M. Peiris,
A. Blackshaw, C. Knowles, D. Bulmer,
United Kingdom

- 110 **Ageing and gastrointestinal sensory function: Altered colonic mechanosensory and chemosensory function in the aged mouse**

C. Keating, L. Nocchi, Y. Yu, D. Grundy
United Kingdom

- 111 **Neurophysiological, cellular and environmental regulation of visceral hypersensitivity in ulcerative colitis like inflammation**

S. Sarna, J. Chen, J. Winston, USA

- 112 **Dose-dependent antihyperalgesic effect of somatostatin (sst) receptor subtype agonists in a rodent model of visceral hypersensitivity induced by repeated noxious colorectal distension**

M. Larauche, A. Mulak, M. Million, J. Rivier,
Y. Tache, USA, Poland

- 113 **TRPV1 receptors and visceral hypersensitivity in colitis-induced motility and sensitivity disorders**

H. de Schepper, W. Vermeulen, J. d. Man,
P. Pelckmans, B. d. Winter, Belgium

- 115 **Effects of DA-9701 on responses of substance P, c-Fos and pERK in spinal cord and dorsal root ganglion to colorectal distension in Sprague-Dawley rats**

S.-P. Lee, K.-N. Lee, O.-Y. Lee, D.-W. Jun, H.-L. Lee,
B.-C. Yoon, H.-S. Choi, W. Sohn, Republic of Korea

- 116 **Associations between visceral and somatic pain in healthy volunteers**

P. Enck, B. Horing, H. Kugel, V. Brenner, Germany

- 117 **TRPA1 activation leads to the murine small mesenteric afferent signaling**

W. Jiang, Y. Yu, D. Grundy, United Kingdom

PS-09

Poster Session

12:30–14:30

Foyer Sala Magenta

Basic and translational session: Microbiota in health and disease

Discussants: I. Depoortere, Belgium
F. Gribble, United Kingdom
C. Scarpignato, Italy

- 118 **Stimulation of colonic Toll-Like Receptors induces a local immune response without histological signs of inflammation or changes in bacterial wall adherence in rats**

M. Aguilera, J. Estévez, P. Vergara, V. Martínez,
Spain

- 119 **Microbial colonization of germ-free mice induces marked change in behaviour that is independent of bacterial diversity**

V. Philip, J. Lu, E. F. Verdu, K. McCoy, M. G. Surette, S. M. Collins, P. Bercik, Canada,
Switzerland

- 120 **Local activation of Toll-like Receptor 7 (TLR7) enhances colonic epithelial barrier function in rats**

J. Estévez, M. Aguilera, R. Paricio, J. A. Fernández-Blanco, P. Vergara, V. Martínez, Spain

- 121 **Up-regulated expression of TLR4 and TLR9 in small bowel mucosa of patients with Irritable Bowel Syndrome (IBS)**

G. Lindberg, A. Dlugosz, N. Acevedo,
K. Zakikhany, M. d'Amato, Sweden

- 122 **Intestinal microbiota in the neuro-immune regulation of behaviour: Exploring role of vagal-microbiota signalling**
P. G. McLean, B. Berger, N. Porta, M. Perrot, C. Ngom-Bru, S. M. Collins, P. Bercik, E. F. Verdu, G. E. Bergonzelli, Switzerland, Canada
- 123 **Non-absorbable oral antibiotic treatment in mice affects multiple levels of the microbiota-gut-brain axis**
A. Farzi, G. Gorkiewicz, P. Holzer, Austria
- 124 **Role of gastrointestinal dysmotility on intestinal bacterial overgrowth and translocation following burn injury**
H. Sallam, P. Urvil, T. Savidge, J. Chen, USA
- 130 **The involvement of sympathetic nerve activation in decreased ghrelin production and secretion in urocortin-1 induced stress model**
K. Yakabi, S. Ohno, M. Ochiai, K. Takayama, S. Ro, Y. Harada, T. Hattori, Japan
- 131 **Influence of CORM-A1 and resveratrol on TNF- α -induced oxidative stress and apoptosis in murine MODE-K intestinal epithelial cells**
D. Babu, O. d. Backer, S. Soenen, K. Raemdonck, G. Leclercq, R. Motterlini, R. Lefebvre, Belgium, France
- 132 **Mechanisms underlying hydrogen sulphide relaxation in the rat colon**
V. Gil, S. Parsons, D. Gallego, J. Huizinga, M. Jimenez, Spain, Canada
- 133 **Assessing the molecular target for hydrogen sulphide in the mouse small intestine and sensory ganglia**
W. Jiang, L. Nocchi, D. Grundy, United Kingdom
- 134 **Purinergic (P2Y1) and Nitrergic neuromuscular transmission in the human small intestine**
D. Gallego, C. Malagelada, A. Accarino, R. De Giorgio, J. R. Malagelada, F. Azpiroz, M. Jimenez, Spain, Italy
- 135 **Absence of purinergic neuromuscular transmission in the antrum and caecum of P2Y1 knocked out mice**
V. Gil, M. Jimenez, D. Gallego, Spain
- 136 **Early gastrointestinal motor disturbances induced by Lipopolysaccharide (LPS) in sheep may be initiated through activation of COX-2 in pulmonary and hepatic macrophages**
M. A. Plaza Carrion, A. Gimeno, M. Castro, L. F. Martinez, E. Latorre, L. Grasa, A. I. Alcalde, J. E. Mesonero, M. P. Arruebo, M. D. Murillo, Spain, France

PS-10 **Poster Session**

12:30–14:30 Foyer Sala Magenta

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

Discussants: H. Akbarali, USA
M. Neunlist, France
P. Vanden Berghe, Belgium

- 125 **Mechanism of opioid tolerance in bowel dysfunction**
H. Akbarali, T. Smith, H. Maguma, W. Dewey, USA
- 126 **Inhibition of Fatty Acid Amide Hydrolase (FAAH) activity by PF-3845 reduces diarrhoea and alleviates abdominal pain in mice**
J. Fichna, J. Stuart, A. Cygankiewicz, P. Zakrzewski, A. Mokrowiecka, M. Salaga, A. Janecka, E. Malecka-Panas, H. Bradshaw, K. Ahn, M. Storr, Poland, USA, Germany
- 127 **Achalasia in mice lacking NO-sensitive guanylyl cyclase**
D. Groneberg, E. Ziser, M. Wagner, B. Lies, A. Fribe, Germany
- 128 **Comparison of peptidergic neuromuscular transmission in the wildtype and VIP-/- murine internal anal sphincter**
K. Keef, S. Saxton, C. Cobine, R. Kaminski, R. McDowall, USA
- 129 **Dopaminergic signaling in mouse duodenum and postnatal developmental changes**
M. Zizzo, M. Mastropaoletti, G. Cavallaro, F. Mule, R. Serio, Italy

PS-11 **Poster Session**

12:30–14:30 Foyer Sala Magenta

Basic and translational session: Smooth muscle and ICC in health and disease

Discussants: S. Bhattacharya, USA
J. Huizinga, Canada
S. Ward, USA

- 137 **Regulation of excitation-contraction and excitation-transcription coupling by caveolin-1 via microRNA133a and transcription factors, Foxo4 and Elk1 in gastrointestinal smooth muscle**
K. Murthy, S. Bhattacharya, S. Mahavadi, S. Rajagopal, R. Zhou, J. Grider, USA

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| | | PS-12 | Poster Session | |
|-----|--|---|---|--|
| 138 | Platelet-Derived Growth Factor Receptor a positive (PDGFRa+) cells in mice colonic smooth muscles are the primary site of purinergic inhibitory motor neurotransmission M. Kurahashi, S.-D. Koh, S. M. Ward, K. M. Sanders, USA | 12:30–14:30 | Foyer Sala Magenta | |
| 139 | Functional characterization of Ca²⁺-activated Cl- conductance in murine colonic ICC S. D. Koh, H. Zheng, J.-H. Kim, B. Clark, N. Horowitz, K. Sanders, USA | Clinical session: Esophagus: Clinical Discussants: F. Baldi, Italy P. Kahrilas, USA D. Sifrim, United Kingdom | | |
| 140 | Changes of enteric nerve, interstitial cells of Cajal, and fibroblast-like cells with age in the human stomach J.-G. Kwon, J. T. Jung, E. Y. Kim, J. Han, H. G. Kim, K. S. Park, J. H. Park, I. S. Hwang, B. I. Jang, K. O. Kim, S. W. Jeon, Republic of Korea | 147 | A comparison of multichannel intraluminal impedance and pH monitoring in patients with gastroesophageal reflux related laryngitis and non erosive reflux disease A. Çelebi, D. Koc, Y. Temi, U. Korkmaz, G. Sirin, A. E. Duman, G. Dindar, H. Yilmaz, O. Senturk, S. Hulagu, Turkey | |
| 141 | Activation of Ca²⁺ transients by purines in Platelet Derived Growth Factor Receptor a positive (PDGFRa+) cells in situ S. Abu Baker, A. Salter, S. Ward, K. Sanders, USA | 148 | Altered taste perception in patients with gastroesophageal reflux disease V. Verlezza, G. Sarnelli, L. Vozzella, F. De Giorgi, P. Andreozzi, F. P. Zito, E. Cantone, M. Pesce, R. Cuomo, Italy | |
| 142 | Sensory nervous system input into small intestine ICC-MP calcium transients Y.-F. Zhu, X.-Y. Wang, B.-J. Lowie, S. P. Parsons, E. J. White, J. D. Huizinga, Canada | 149 | Modulation of oesophageal afferent pathways by 5-HT3 receptor inhibition M. Szczesniak, S. Fuentealba, T. Zhang, I. Cook, Australia | |
| 143 | Effect of age on mucosal serotonin signalling and circular muscle contractions in the murine rectum B. Patel, L. Parmar, S. Fidalgo, C. Wang, R. Ranson, J. Saffrey, M. Yeoman, United Kingdom | 150 | Detection of laryngopharyngeal reflux (LPR) using 24-hour esophageal and pharyngeal impedance-pH monitoring: Normal values off and on PPIs and inter-observer reproducibility F. Zerbib, S. Roman, S. Bruley des Varannes, G. Gourcerol, B. Coffin, A. Ropert, P. Lepicard, F. Mion, France | |
| 144 | Effects of transient receptor potential channel blockers on pacemaker activity in interstitial cells of Cajal from mouse small intestine B.-J. Kim, I.-S. So, Republic of Korea | 151 | Sensitivity of high resolution manometry for detection of esophageal motility disorders: Comparison with 24H-manometry J. Keller, V. Andresen, P. Layer, Germany | |
| 145 | Toward the biophysical basis of monophasic and biphasic slow wave extracellular potentials P. Du, N. Paskaranandavadiel, A. Beyder, G. Farrugia, L. Cheng, G. O'Grady, New Zealand, USA | 152 | Modality specific alterations of esophageal sensitivity caused by longstanding diabetes mellitus C. Brock, J. Brun, J. B. Frøkjær, E. Søfteland, M. Simrén, H. Gregersen, A. M. Drewes Denmark, Sweden, Norway, China | |
| 146 | The effect of aging on proximal and distal colonic muscle contractility in F344 rat N.-Y. Kim, H.-J. Kim, Y.-S. Kim, M.-Y. Lee, J.-W. Kim, H.-J. Jo, C.-M. Shin, Republic of Korea | 153 | Silent aspiration after Traumatic Brain Injury (TBI) L. Candeloro, D. Badiali, I. Biviano, E. S. Corazziari, F. I. Habib, Italy | |
| | | 154 | Neuronavigated repetitive magnetic cerebellar stimulation induces long-lasting changes in human swallowing motor pathways D. Vasant, S. Mistry, V. Jayasekeran, E. Michou, S. Hamdy, United Kingdom | |
| | | 155 | Distension evoked motor response analysis in human esophagus D. Liao, G. Villadsen, H. Gregersen, Denmark | |

- 156 High-resolution impedance manometry criteria in the sitting position indicative of incomplete bolus clearance**
G.-H. Bok, T.-H. Lee, J.-S. Lee, J.-Y. Cho, J.-O. Kim, H.-G. Kim, S.-R. Jung, W.-J. Kim, Republic of Korea
- 157 Esophageal contractions and transit in patients with excessive belching**
R. Dantas, A. Silva, L. Aprile, Brazil
- 158 Diagnosis of Gastro-esophageal Reflux Disease (GERD): A prospective analysis based on prolonged, ambulatory pH-studies**
M. Fox, R. Sweis, E. Tucker, J. Wright, K. Knowles, A. Anggiansah, T. Wong, D. Menne, United Kingdom, Germany
- 159 Comparative study for the high-resolution manometric observation in globus sensation, gastroesophageal reflux disease patients and normal controls**
W.-S. Choi, T.-W. Kim, W.-J. Hur, Y.-G. Choe, J.-H. Park, S.-H. Lee, C.-I. Sohn, Republic of Korea
- 160 Prolonged, direct observation of esophagogastric junction opening patterns using capsule endoscopy for 12 hours**
I.-K. Sung, M.-J. Hong, J.-H. Kim, S.-Y. Lee, H.-S. Park, C.-S. Shim, Republic of Korea
- 161 Role of the Esophago-Gastric Junction (EGJ) in GERD patients: Reflux esophagitis spectrum**
R. Kuvaev, I. Ivanikov, S. Kashin, A. Senin, Russia
- 162 High resolution manometry and PH-impedance monitorung in patients after gastrectomy**
O. Yanova, L. B. Lazebnik, O. S. Vasnev, V. A. Kim, D. S. Bordin, Russia
- 163 Role of upper esophageal sphincter and pharynx in the development of swallowing abnormalities in patients who received prolonged mechanical ventilation**
K. Shetler, M. Singer, K. Ponting, E. Holt, C. Brown, H. Wang, W. J. Snape jr., USA
- 164 Utilizing intrabolus pressure and EGJ relaxation pressure to predict esophageal bolus transit in dysphagia patients**
M.-I. Park, S.-H. Jeong, S.-J. Park, W. Moon, H.-H. Kim, S.-R. Choi, Republic of Korea
- 166 GERD symptoms severity is explained by familiar segregation independently of BMI**
J. Chiu Ugalde, A. Reding Bernal, A. Lopez Colombo, J. L. Tamayo-de la Cuesta, G. Mateos, A. Vargas, J. C. Lopez Alvarenga, Mexico
- 167 Effect of an acidic bolus on oral, pharyngeal and esophageal transit in normal subjects**
R. Dantas, L. Alves, M. Secaf, Brazil
- 168 The inclusion of solid boluses in high resolution manometry has high diagnostic yield**
A. Thompson, C. M. Burgstad, R. Heddle, R. J. L. Fraser, Australia
- 169 Increased in recent years, the diagnosis of Eosinophilic Esophagitis in patients with Refractory Gastroesophageal Reflux**
O. F. Beser, E. Celik, T. Erkan, T. Kutlu, F. Cullu Cokugras, Turkey
- 170 A 24-hour ambulatory simultaneous multichannel intraluminal impedance-pH monitoring in patients with doubtful laryngopharyngeal reflux**
M.-I. Park, S.-E. Kim, H.-H. Kim, S.-J. Park, W. Moon, S.-R. Choi, Republic of Korea
- 171 An evidence of esophageal deconditioning in patients with achalasia in the view of its subtype**
H.-J. Park, G. W. Rhee, Y. H. Youn, S. I. Lee, Republic of Korea
- 172 Nutritional profile of children with Acid Gastroesophageal Reflux Disease and its association with the severity of disease**
C. Boggio Marzet, M. L. Deforel, S. Dozo, H. L. Gomez, C. Palacios Perez, Argentina
- 173 An unusual cases of laryngopharyngeal squamous cell carcinoma mistaken as globus**
W.-S. Choi, W.-J. Hur, Y.-G. Choe, J.-H. Park, J.-I. Sohn, Republic of Korea
- 174 The epidemiology of achalasia of the lower esophageal sphincter in children in San Diego County, California**
N. Tipnis, T. Ciecierega, R. Cherry, W. Shapiro, USA
- 175 The pathogenetic implication of secondary oesophageal peristalsis impairments in patients with gastroesophageal reflux disease**
A. Ledovskaya, O. A. Sablin, Russia
- 176 Segmental changes in smooth muscle contraction as a predictive factor of the response to high-dose proton pump inhibitor treatment in patients with functional chest pain**
H. Lee, J.-H. Park, Y. C. Lee, Republic of Korea
- 177 Prevalence and characteristics of eosinophilic esophagitis in rural versus urban populations**
R. Schey, Y.-J. Lee, J. Go, N. Frederickson, J. Valestin, M. Redd, USA

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- 178 Impaired bolus transits and esophageal peristaltic dysfunction may play an important role in patients with globus**
P.-L. Rhee, J.-Y. Park, D.-M. Jae, B.-H. Min, Republic of Korea
- 179 GERD symptoms and PPI response in the patients with erosive oesophagitis, non-erosive reflux disease or functional heartburn**
N.-Y. Kim, H.-J. Kim, S.-Y. Jo, J.-W. Lim, D.-H. Lee, Republic of Korea
- 180 Impact of the manometric esophageal alterations and the exposure to acid in the incidence of Barrett's Esophagus**
P.-A. Angeles, J. M. Rosales Zabal, M. C. Lopez Vega, F. Fernandez Cano, M. A. Romero Ordoñez, M. Gonzalez Barcenas, F. Rivas Ruiz, Spain
- 181 Esophageal combined multichannel intraluminal impedance-pH monitoring and its clinical value in the diagnosis of various types of gastroesophageal reflux disease**
S. Morozov, M. Kukushkina, V. Isakov, Russia
- 182 Identification of esophageal dysfunction with combined impedance-manometry: A 6-year single-center experience**
C.-L. Chen, C.-H. Yi, T.-T. Liu, Taiwan
- 183 Association between smoking and eosinophilic esophagitis**
R. Schey, M. Redd, J. Go, Y.-J. Lee, N. Frederickson, J. Valestin, USA
- 184 Comparison of anxiety and depression in Gastroesophageal Reflux Disease (GERD) patients who failed Proton Pump Inhibitor (PPI) therapy versus those who fully responded to it**
R. Dickman, M. Boaz, S. Aizic, R. Gingold-Belfer, A. Sperber, R. Fass, Y. Niv, Israel, USA
- 185 Short term treatment of achalasia by dark chocolate**
Y. Ron, R. Dekel, N. Hershkovits, V. Motin, M. Rosenberg, E. Santo, Z. Halpern, Israel
- 186 Use of GpH-MII/pH for the evaluation of GERD in patients with refractory symptoms. How to optimize the PPI treatment?**
O. Teramoto, S. Sobrino, J.-C. Soto, J.-A. Vargas, A. Gollas, J.-C. Lopez, M.-E. Hernández, A. Orozco, Mexico
- 187 The long-term outcome in patients with primary achalasia according to the balloon dilatation or intraspincteric botulinum toxin injection**
H.-E. Jung, J. S. Lee, J. O. Kim, S. J. Hong, T. H. Lee, H. G. Kim, S. R. Jeon, Republic of Korea

| PS-13 | Poster Session |
|---|--------------------|
| 12:30–14:30 | Foyer Sala Magenta |
| Clinical session: Stomach: Clinical | |
| Discussants: M. Camilleri, USA | |
| R. Cuomo, Italy | |
| C. Tosetti, Italy | |
| 189 Digestive, cognitive and hedonistic responses to meal ingestion | |
| C. Malagelada Prats, S. Mendez, A. Accarino, L. Molne, J.-R. Malagelada, F. Azpiroz, Spain | |
| 190 Gastroparesis: An emerging epidemic | |
| S. Parasa, A. R. Mahankali Sridhar, K. Olden, USA | |
| 191 A psychological status analysis in patients with functional dyspepsia | |
| J. Bochkareva, Russia | |
| 192 Effects of RM-131 in healthy volunteers and type 2 diabetics with documented delayed gastric emptying: Pharmacokinetics and pharmacodynamics | |
| M. Camilleri, A. Shin, I. Busciglio, D. Burton, S. A. Smith, A. Vella, A. R. Zinsmeister, E. Stoner, P. Noonan, USA | |
| 193 Use of erythromycin and related macrolides for the treatment of gastroparesis: Systematic review | |
| D. T. Wijeratne, N. Wijeratne, P. S. Shah, J. Beyene, W. Paterson, Canada | |

| PS-14 | Poster Session |
|---|--------------------|
| 12:30–14:30 | Foyer Sala Magenta |
| Clinical session: Small bowel: Clinical | |
| Discussants: F. Azpiroz, Spain | |
| R. Cogliandro, Italy | |
| A. Smout, The Netherlands | |
| Mitochondropathy: A rare case of selective enteric myopathy | |
| V. Stanghellini, R. d'Alessandro, R. Cogliandro, C. Frisoni, R. Rinaldi, V. Gabusi, I. Pareo, A. Fucili, A. Antonucci, G. Barbara, R. De Giorgio, R. Corinaldesi, Italy | |
| 197 High prevalence of carbohydrate malabsorption in patients with unclear abdominal discomfort | |
| M. Goebel-Stengel, A. Stengel, M. Schmidtmann, I. van der Voort, H. Mönnikes, Germany | |

- 198 Diagnosis of enteric dysmotility: Are manometric disturbances predictable of hystopathological findings?**
A. M. Accarino Garaventa, R. De Giorgio, R. Cogliandro, C. Malagelada, A. Gori, J. R. Malagelada, V. Stanghellini, F. Azpiroz, Spain, Italy
- 199 Impaired gastrointestinal motility in a novel cluster of patients with familial mediterranean fever**
P. Portincasa, L. Bonfrate, V. Ruggiero, G. Scaccianoce, G. Palasciano, Italy
- 200 Neuroradiological and neurometabolic characterisation of CIPO patients**
C. Tonon, R. Rinaldi, L. L. Gramigna, M. Amadori, M. L. Valentino, G. Cenacchi, R. Liguori, L. Pironi, V. Stanghellini, R. Lodi, R. De Giorgio, Italy
- 201 An epidemiologic survey of chronic intestinal pseudo-obstruction (CIPO) and evaluation of the newly proposed diagnostic criteria**
H. Ohkubo, E. Yamada, E. Sakai, T. Higurashi, Y. Sekino, H. Iida, H. Endo, H. Takahashi, M. Inamori, A. Nakajima, Japan
- 202 Morphological differences in jejunum mucosa between patients with IBS and healthy controls**
G. Mohammadian-Kermani, A. Dlugosz, G. Morgan, B. Veress, G. Lindberg, Sweden
- 203 The clinical characteristics and natural history of colonic pseudo-obstruction in Korea: Based on nationwide multicenter database**
K.-W. Jung, K.-J. Lee, H.-J. Kim, N.-Y. Kim, Y.-H. Yoon, C.-I. Sohn, J.-E. Shin, Y.-K. Cho, S.-J. Hong, H.-K. Jung, K.-S. Park, Republic of Korea
- 206 Upregulation of wide dynamic range afferent pathways in hypersensitive patients with Irritable Bowel Syndrome (IBS): A role for psychosocial factors?**
C. Grinsvall, H. Tornblom, L. van Oudenhove, J. Tack, M. Simrén, Sweden, Belgium
- 207 Ileocolorectal inflammation and psychopathological status in patients with diarrhea-predominant functional bowel disorders**
R. Cantarini, E. S. Corazziari, A. Marcheggiano, A. Covotta, C. Iannoni, D. Badiali, P. Nadia, D. Piacentino, M. Biondi, Italy
- 208 Regional grey matter volume in right Brodmann's Area 40 correlates with symptom severity and GI specific anxiety in patients with Irritable Bowel Syndrome (IBS)**
C. Grinsvall, F. Kurth, M. Ljungberg, C. Ashe-McNalley, M. Elam, E. Mayer, M. Simrén, Sweden, USA
- 209 Altered white matter integrity in Irritable Bowel Syndrome (IBS)**
K. Tillisch, B. Ellingson, E. Mayer, C. Ashe-McNalley, J. Labus, USA
- 210 Cookie Test: An easy, reliable cheap alternative method for measuring of colonic transit time**
R. Vardar, N. Gulsen Unal, N. Ozkutuk, S. Bor, Turkey
- 211 Gastrointestinal transit patterns from nuclear transit scintigraphy (NTS) of paediatric chronic constipation**
B. Southwell, Y. I. Yik, D. J. Cook, D. M. Veysey, C. F. Tudball, B. S. King, K. A. Morris, T. M. Cain, J. M. Hutson, Australia, Malaysia
- 212 Symptomatic spectrums of chronic constipation: Multi-centered stratified clinical study in China**
X. Fang, J. Zhang, J. Gao, S. Liu, Y. Xiao, J. She, L. Zhu, X. Hou, Z. Li, P. Hu, M. Ke, China
- 213 Increased number of double positive CD3+ CD8+ CD4+ lamina propria T lymphocyte in gut mucosa of post infectious IBS patients compared to healthy controls**
J. Sundin, R. Brummer, E. Hultgren-Hörnquist, I. Rangel, Sweden
- 214 Effects of linaclotide on abdominal and bowel symptoms over the first seven days of treatment in patients with Irritable Bowel Syndrome (IBS) with constipation**
L. Chang, A. Lembo, S. Schiff, J. Shao, B. Lavins, K. Shi, H. Schneier, M. Currie, J. Johnston, USA

PS-15 Poster Session

- 12:30–14:30 Foyer Sala Magenta
- Clinical session: Large bowel: Clinical**
Discussants: M. Bellini, Italy
 W. Chey, USA
 M. Simrén, Sweden
- 204 Characterization of bowel habit in IBS patients using the Bristol Stool Form Scale**
E. Almquist, D. Guyonnet, H. Törnblom, L. van Oudenhove, J. Tack, M. Simrén, Sweden, France, Belgium
- 205 The clinical course of postinfectious Irritable Bowel Syndrome (IBS) after shigellosis: A 10-year follow-up study**
Y.-H. Youn, S.-Y. Park, C.-I. Park, H.-C. Lim, J.-H. Kim, H.-J. Park, S.-I. Lee, Republic of Korea

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| | | PS-16 | Poster Session | |
|-----|---|--|---|--|
| 215 | A pooled analysis of two phase 3 trials to determine the effects of linaclotide treatment on patient-reported ratings of change for symptoms of Irritable Bowel Syndrome with Constipation (IBS-C) G. Locke, W. Chey, C. Kurtz, R. Carson, M. Baird, M. Currie, H. Schneier, J. Johnston, USA | 12:30–14:30 | Foyer Sala Magenta | |
| 216 | Management of pediatric patients with refractory constipation who fail cecostomy S. Bonilla, A. Flores, B. Orkin, W. Chwals, C.-C. Jackson, B. Gilchrist, USA | Clinical session: Anorectal: Clinical Discussants: G. Basilisco, Italy G. Bazzocchi, Italy S. Rao, USA | | |
| 217 | Factor analyses of patient-reported outcome measures in Irritable Bowel Syndrome with Constipation (IBS-C): Results from two randomized, double-blind, placebo-controlled phase 3 trials of linaclotide V. S. L. Williams, L. M. Nelson, R. T. Carson, M. J. Baird, C. D. Coon, S. E. Fehnel, J. M. Johnston, USA | 222 | External Anal Sphincter (EAS) muscle morphology reassessed using Ultrasound (US), Magnetic Resonance Imaging (MRI) and Diffusion Tensor Imaging (DTI) V. Bhargava, R. Mittal, M. Ledgerwood, S. Sinha, USA | |
| 218 | Home-based transcutaneous electrical stimulation (TES) improved symptoms and reduced laxative use in children with slow-transit constipation (STC) B. Southwell, Y. I. Yik, K. A. Ismail, J. M. Hutson, Australia, Malaysia | 223 | Distensibility of the anal canal in patients with systemic sclerosis: A study with the functional lumen imaging probe L. Fynne, F. Luft, H. Gregersen, S. Buntzen, L. Lundbye, F. Lundager, S. Laurberg, K. Krogh, Denmark, China | |
| 219 | Laparoscopically assisted subtotal colectomy for slow transit constipation X. Cao, J. Jiang, J. Suo, China | 224 | Evaluation of anorectal function in healthy adults with 3-D high definition manometry (HDAR-3D) E. Coss-Adame, M. Nguyen, K. Tantiphlachiva, J. Valestin, K. Meduri, S. Rao, USA | |
| 220 | A pooled analysis of two phase 3 trials assessing the percentage of days linaclotide improved abdominal symptoms and stool frequency in patients with IBS-C S. Rao, L. Chang, X. Hao, B. Lavins, S. Schiff, X. Cao, H. Schneier, M. Currie, J. Johnston, USA | 225 | Do IBS patients without rectal hypersensitivity adapt to repeated aversive rectal distensions? M. Larsson, K. Tillisch, E. Mayer, B. Naliboff, M. Ström, M. Engström, S. Walter, Sweden, USA | |
| 221 | Multidisciplinary management of chronic pediatric abdominal pain: Initial single center experience R. Sanghavi, A. Farrow-Gillespie, A. Haag, G. Noble, USA | 226 | Assessment of obstructive defecation by high resolution anorectal manometry compared to magnetic resonance defecography H. Heinrich, M. Fox, M. Sauter, D. Weishaupt, W. Schwizer, M. Fried, H. Fruehauf, Switzerland, United Kingdom | |
| | | 228 | Prevalence and risk factors of fecal incontinence in male gulf-war veterans A. Tuteja, N. Talley, M. Samore, G. Stoddard, N. Verne, USA, Australia | |

| | PS-17 | Poster Session |
|--|--|---|
| 229 | Prospective comparison of balloon expulsion, anorectal manometry and evacuation proctography for the diagnosis of evacuatory dysfunction S. Palit, N. Thin, C. Knowles, S. M. Scott, P. J. Lunniss, United Kingdom | 12:30–14:30 Foyer Sala Magenta |
| Clinical session: Miscellaneous | | |
| Discussants: E. Corazziari, Italy A. Fikree, United Kingdom J. Tack, Belgium | | |
| 230 | The spinal anal-external sphincter continence reflex P. Broens, F. Penninckx, E. Heineman, J. Boix Ochoa, The Netherlands, Belgium, Spain | 239 Autonomic dysfunction and gastrointestinal symptoms in the joint hypermobility syndrome A. Fikree, R. Aktar, R. Grahame, Q. Aziz, United Kingdom |
| 231 | Obesity does not impact the prevalence of dyssynergic defecation in adults with chronic constipation R. Saad, J. Baker, W. Chey, USA | 240 Clinical dimensions of bloating in functional gastrointestinal disorders J.-I. Ryu, H.-K. Jung, E.-M. Song, H.-I. Kim, S.-Y. Yoon, K.-J. Kwon, S.-E. Kim, K.-N. Shim, S.-A. Jung, S. Y. Yi, J.-S. Kim, Republic of Korea |
| 232 | New high-resolution anorectal manometry parameters for predicting balloon expulsion in patients with chronic constipation on the basis of a three-dimensional integrated pressurized volume of spatiotemporal plot K.-W. Jung, S.-Y. Joo, S.-J. Myung, D.-H. Yang, J.-W. Kim, K.-J. Kim, B.-D. Ye, J.-S. Byeon, H.-Y. Jung, S.-K. Yang, J.-H. Kim, Republic of Korea | 241 Patients with chronic constipation attending out-patient clinics in India and China may present as functional dyspepsia and receive inappropriate treatment K.-A. Gwee, N. Pratap, M. Chen, L. Xiong, K. Siah, U. Ghoshal, W. Whitehead, Singapore, India, China, USA |
| 233 | Ano-rectal Dysfunction (ARD) in Functional Bowel Disorders (FBD): A systematic biomechanical evaluation—Clinical pilot study P. Basu, T. Nair, L. Ang, S. Farhat, M. Jafri, S. Foustein, N. James Shah, USA | 242 The effect of acute axos colonic fermentation on the interdigestive upper gi-tract motility and hunger ratings in man E. Scarpellini, E. Deloose, R. Vos, I. Francois, J. Delcour, W. Broekaert, K. Verbeke, J. Tack, Belgium |
| 234 | Normative anatomy of anal sphincter detected by 3D-endoanal ultrasonography: A study in Thai population K. Tantiphlachiva, J. Pattanaarun, C. Sahakitrungruang, A. Rojanasakul, Thailand | 243 Cerebral cortical excitability is abnormal in patients with painful chronic pancreatitis S. Schou Olesen, T. M. Hansen, C. Graversen, M. Valeriani, A. Drewes, Denmark, Italy |
| 235 | Prevalence of dyschezia in healthy infants 0 to 6 months C. Boggio Marzet, M. T. Basaldua, Argentina | 244 Maladaptive brain changes contribute to gastrointestinal symptoms in diabetes mellitus patients C. Brock, C. Graversen, J. B. Frøkjær, E. Softeland, M. Valeriani, A. M. Drewes, Denmark, Norway, Italy |
| 236 | Recto-anal manometry: Comparison between type 2 diabetics and healthy individuals J. Xavier Jorge, C. Almeida, F. Delgado, M. Simoes, A. Coelho, A. Silva, Portugal | 245 Gastrointestinal dysfunctions in Parkinson's Disease and other parkinsonian disorders C.-M. Shin, J.-Y. Lee, T.-J. Kim, D.-H. Kim, N. Kim, Republic of Korea |
| 237 | Medium term outcomes following sacral nerve stimulation in patients with severe rectal evacuatory dysfunction allied to rectal hyposensitivity N. Thin, S. M. Scott, C. Knowles, United Kingdom | |
| 238 | Top down medical treatment for dis-impaction of patients in emergency department setting J. Jordan-Ely, J. Hutson, B. Southwell, Australia | |

Poster Presentations – Friday, 7 September 2012

- 246 Overlapping upper and lower gastrointestinal symptoms suggestive of additional functional gastrointestinal disorders in IBS: Rome II versus Rome III
M. Simrén, M. Sheikhi, I. Posserud, H. Törnblom, Sweden
- 247 Generalized transit delay, hypomotility, and absent gut reflex activity with spinal cord injury: Comparison to controls and slow transit constipation using wireless motility capsules
W. Hasler, J. Baker, G. Rodriguez, USA
- 248 Impairment of gastrointestinal motility and evacuation in patients with liver cirrhosis of different aetiologies
G. Gusmanova, Russia
- 250 Change in functional bowel symptoms after prostatectomy: A case-control study
A. Toghiani, P. Adibi, H. Mazdak, A. Derakhshande, Islamic Republic of Iran
- 251 Influence of immunosuppressive therapy on gastrointestinal transit after renal transplantation evaluated by AC Biosusceptometry
M. Americo, M. d. Carmo B. Teixeira, I. R. Wanderley, O. Baffa, J. R. A. Miranda, R. B. Oliveira, L. A. Corá, Brazil
- 251a High frequency of overlap between functional dyspepsia, irritable bowel syndrome and overactive bladder
H. Suzuki, J. Matsuzaki, Y. Fukushima, K. Hirata, S. Fukuhara, S. Okada, T. Hibi, Japan

| PS-18 | Poster Session | |
|--|--------------------|--|
| 12:30–14:30 | Foyer Sala Magenta | |
| Basic and translational session: Glial and enteric neurons in health and disease | | |
| Discussants: N. Spencer, Australia S. Srinivasan, USA H. Young, Australia | | |
| 252 Identification of purinergic signaling in the esophageal enteric neurons H. Dong, Y. Jiang, J.-W. Kim, R. K. Mittal, USA | 262 | Evidence for negative effects of Ethanol upon the enteric nervous system during pregnancy and in the regenerating postnatal gut K.-H. Schäfer, P. Kolbe, J. Schnepf, T. Schwab, Germany |
| 254 TRPV4 channel activation stimulates enteric glia in the mouse colonic myenteric plexus B. Gulbransen, C. Altier, K. Sharkey, Canada | 263 | Age-related change in cholinergic and nitrergic signaling in the mouse rectum B. Patel, S. Fidalgo, R. Ranson, J. Saffrey, M. Yeoman, United Kingdom |
| 255 Distribution of TMEM100, a novel marker of the mouse and human enteric nervous system G. Farrugia, S. Eisenman, S. Gibbons, R. D. Singh, M. Sarr, M. Kendrick, D. Larson, E. Dozois, K. R. Shen, USA | 264 | Fast (kHz) imaging with improved sensitivity and spatial resolution reveals stepwise Ca²⁺ increases in individual varicosities M. Martens, P. van den Berghe, Belgium |
| 256 High fat diet induces murine colonic neuronal cell loss and enteric dysmotility: Role of macro-autophagy and ER-stress B. Nezami, S. M. Mwangi, S. Srinivasan, USA | 265 | Enteric glia mediate ion transport abnormalities in mouse colon during colitis S. MacEachern, W. Mac Naughton, K. Sharkey, Canada |
| 257 Mechanisms involved in the therapeutic properties of mesenchymal stem cells on colon damages: Application to radiotherapy side effects A. Semont, N. Mathieu, C. Durand, C. Demarquay, M. Benderitter, France | 266 | Effect of oxytocin on the chemical sensitivity of the mysenteric afferent fibers in rats in vitro J. Li, B. Xue, K. Liu, C. Liu, China |
| 258 Endothelial and neural stem cells in the gut: A successful team S. Schrenk, A. Schuster, T. Schwab, M. W. Laschke, M. D. Menger, K.-H. Schäfer, Germany | 267 | Expression of PrPC in glial cells of the cat intestinal tract C. Sorteni, M. De Angeli, P. Clavenzani, R. De Giorgio, C. Johnson, R. Chiocchetti, Italy, USA |
| 259 Wnt pathway in post-natal enteric nervous system T. Bertalot, A. Schuster, R. Di Liddo, T. Schwab, R. Medert, P. Reischmann, J. Apfel, S. Rajendran, P. P. Parnigotto, M. T. Conconi, O. Müller, K.-H. Schäfer, Italy, Germany | 268 | Edema-induced PAK activation negatively regulates MLC phosphorylation and inhibits intestinal motility K. Uray, J. Chu, R. Hetz, A. Olsen, C. Cox, USA |
| 260 Myenteric intrinsic primary afferent neuron function correlates with altered motility in aged mice W. Kunze, B. Wang, Y.-K. Mao, A. Stanisz, Y. Wu, Canada | 269 | The influence amyloid-β Protein upon Enteric Neurons- A possible diagnostic tool for early diagnosis in Alzheimer's disease A. Braun, M. Bischof, M. Grimm, T. Hartmann, S. Krämer, A. Schönfeld, K.-H. Schäfer, Germany |
| 261 Myogenic and neurogenic properties of three independent motor patterns in the whole rat colon J. Chen, Q. Zhang, K. Li, Y. Yu, J. D. Huizinga, China | 270 | Spatial analysis of the enteric nervous system of GFP-Nestin expressing mice D. Grundmann, F. Markwart, K.-H. Schäfer, Germany |
| | 271 | Effects of oral administration of rotenone on the enteric nervous system M. Tasselli, S. Paillusson, T. Chaumette, P. Aubert, S. Hunot, M. Neunlist, P. Derkinderen, France |
| | 272 | Differential regulation of 5-HT and neuropeptides expression in rat colonic mucosal enteroendocrine cells by brain derived neurotrophic factor J. Grider, Z. Bradley, C.-M. Xia, K. Murthy, J. Kuemmerle, L. Qiao, USA |

Poster Presentations – Saturday, 8 September 2012

- 273 **Evolution of the postnatal phenotypical maturation of glial cells in the enteric nervous system**
F. Cossais, M. Boudaud, E. Suply, R. Soret, P. de Vries, M. Neunlist, France
- 274 **Glutathione promotes myenteric neuroprotection in the jejunum of diabetic rats**
T. R. Santos Soares, C. Hermes Uliana, J. Nelis 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
- 282 **Esophageal biomechanical properties as indicator of impaired gastrointestinal function in diabetes patients**
J. B. Frøkjær, C. Brock, J. Brun, M. Simrén, G. Dimcevski, A. M. Drewes, H. Gregersen, Denmark, Sweden, Norway
- 283 **Principles of analysis of spatio-temporal mechanical events during neurogenic and myogenic activity in rabbit colon**
L. Wiklendt, 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
- 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

| PS-19 | Poster Session |
|--|--|
| 12:30–14:30 | Foyer Sala Magenta |
| Basic and translational session: Small intestine, colon and anorectum: Physiology and pathophysiology | |
| Discussants: J. Chen, USA T. Smith, USA | |
| 277 | Ischemia/reperfusion damage in human intestine involves inflammation and changed expression of nitric oxide synthases T. Frugier, M. Nikfarjam, A. Testro, G. Venables, L. Pontell, R. Jones, J. B. Furness, Australia |
| 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 M. J. Saffrey, C. Wang, P. Gamage, H. Davies, F. Colyer, M. Houghton, B. Patel, M. Yeoman, R. Ranson, United Kingdom |
| 280 | The anal rectal filling sensation receptor P. Broens, F. Penninckx, E. Heineman, J. Boix Ochoa, The Netherlands, Belgium |
| 281 | Age-related changes in nitrergic and purinergic signalling in the mouse internal anal sphincter B. Patel, S. Fidalgo, R. Ranson, J. Saffery, M. Yeoman, United Kingdom |

Saturday, 8 September 2012 – Poster Presentations

| | | PS-20 | Poster Session |
|-----|---|--|---|
| 292 | Role of prostaglandins in the colonic motility in rat colon S.-I. Karaki, Y. Iizuka, R. Tanaka, A. Kuwahara, Japan | 12:30–14:30 | Foyer Sala Magenta |
| 293 | Impacts of fungal alkaloids on intestinal motility in the isolated rat colon J. Dalziel, S. Finch, New Zealand | Basic and translational session: Appetite regulation, satiety, obesity and nutrition Discussants: L. Bueno, France T. Shea-Donohue, USA | |
| 294 | The motility and biomechanical changes of rat small intestine after acute mesentery ischemia J. Zhao, H. Gregersen, Denmark | 300 | Altered nutrient sensing in the transient receptor potential vanilloid 1 knockout mouse Y. Zhang, D. Grundy, United Kingdom |
| 295 | Age-related changes in colonic motility, faecal output and the properties of faecal pellets in the mouse B. Patel, N. Patel, S. Fidalgo, R. Ranson, J. Saffery, M. Yeoman, United Kingdom | 301 | Consequences of a diet-induced obesity on the plasticity of the Pancreatic Intrinsic Nervous System and the nervous control of pancreatic endocrine secretion in young mice S. Blat, M.-B. Saade, R. Moriez, P. Aubert, M. Neunlist, France |
| 296 | Recto-anal manometry: Comparison between type 2 diabetics with normal or high morning glycemia J. Xavier Jorge, C. Almeida, F. Delgado, M. Simões, A. Silva, Á. Coelho, Portugal | 302 | Glucose modulates glutamate release from vagal afferent terminals via a protein kinase C (PKC)-dependent pathway K. Browning, USA |
| 297 | Study of the biological effects of single-walled carbon nanotubes (SWNTs) on rabbit small intestine L. Grasa Lopez, M. T. Martínez, A. Ansón Casasos, R. Albendea, C. Vergara, S. Gonzalo, M. D. Murillo, Spain | 303 | MCH induced food intake in the NTS increases in obesity coinciding with increased MCH expression in vagal afferent neurons G. de Lartigue, H. Raybould, USA |
| 298 | Recto-anal manometric characteristics of healthy individuals according to their age and gender J. Xavier Jorge, C. Borges, C. Almeida, F. Delgado, M. Simoes, A. Silva, A. Coelho, Portugal | 304 | Glucagon-like Peptide-2 and mucosal changes induced by high fat diet in mouse small intestine S. Baldassano, A. Amato, A. Rotondo, A. Bellanca, F. Cappello, F. Rappa, F. Mulè, Italy |
| 299 | Intestinal contractility is not altered by guanylate cyclase C activation or by non cell-permeant cGMP S. Jacobson, I. Silos-Santiago, C. Kurtz, M. Currie, USA | 305 | Roux-en Y gastric bypass surgery-induced changes in enteroendocrine cell abundance and cytokine gene expression H.-R. Berthoud, M. Mumphrey, L. Patterson, H. Zheng, USA |
| | | 306 | Weight regulating hormones correlate with parameters of the intestinal serotonergic system in obese individuals Y. Ritze, C. Mayr, B. Ernst, M. Thurnheer, B. Schultes, S. C. Bischoff, Germany |
| | | 307 | The study of GLP-1R expression in enteric nerve system of type 2 diabetic rat after duodenal-jejunal bypass surgery M.-H. Qu, J.-M. Xu, C.-Y. Fang, T.-K. Zhao, H.-L. Han, China |
| | | 308 | The effect of motilin on gastric contraction using a newly developed diabetes mellitus model of the house musk shrew (<i>Suncus murinus</i>) K. Nishina, T. Yoshinari, S. Aizawa, I. Sakata, T. Sakai, Japan |

Poster Presentations – Saturday, 8 September 2012

- 309 Effects of kaolinite ingestion on regulation by leptin of intrinsic nitroergic 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
- PS-21** **Poster Session**
12:30–14:30 Foyer Sala Magenta
- Basic and translational session: Gastric physiology, pathophysiology**
Discussants: 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. Sinzato, 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
- 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

- 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
M.-G. Choi, J.-M. Park, M.-K. Baeg, C.-H. Lim, Y.-K. Cho, Republic of Korea
- 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, M. 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

| | | PS-23 | Poster Session |
|-----|---|--|--------------------|
| 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 | 12:30–14:30 | Foyer Sala Magenta |
| 327 | Terminal restriction fragment length polymorphism analysis of the diversity of fecal microbiota in patients with Irritable Bowel Syndrome (IBS) C.-H. Choi, B.-K. Cha, S.-K. Chang, B.-C. Kim, S.-A. Jung, K.-J. Kim, Republic of Korea | Basic and translational session: Neuroimmune mechanisms Discussants: S. Vanner, Canada N. Vergnolle, France | |
| 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 | 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 | |
| 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 | 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 | |
| 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 | 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. Castagliuolo, Italy | |
| 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. Cabezas, M. I. Martin Fontelles, R. Abalo, Spain | 337 Modulation of the inflammatory response by mas-related gene receptor D during intestinal schistosomiasis L. R. Avula, R. Buckinx, K. Alpaerts, D. Adriaensen, L. v. Nassauw, J.-P. Timmermans, Belgium | |
| 332 | Secretory action of individual extracts of the herbal medicine STW 5 in human intestine S. Allam, D. Krueger, O. Kelber, I. E. Demir, G. Ceyhan, F. Zeller, M. Schemann, Germany | 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 | |
| 333 | A model of in vitro perfused mouse intestine suitable for pharmacological testing of antiinflammatory drugs D. Schreiber, G. Erkel, K.-H. Schäfer, Germany | 339 Altered unfolded protein response in inflamed biobreeding rats T. Masaoka, S. Salim Rasool, 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. Giuliani, H. Eutamene, C. Cartier, M. Leveque, A. Bedini, S. Spampinato, L. Bueno, V. Theodorou, M. Broccardo, S. Agostini, Italy, France | |

Poster Presentations – Saturday, 8 September 2012

- 342 Mast cell and enterochromaffin cell distribution in the aged human bowel
Y. Yu, I. Adam, P. Kitsanta, A. Shorthouse, D. Grundy, W. Jiang, United Kingdom
- 343 Enteric nervous system activity inhibits TNF α but potentiates IL6 productions induced by LPS in a p38 and ERK independent manner
S. Coquenlorge, J. Chevalier, E. Duchalais, F. Cossais, M. Rolli-Derkinderen, M. Neunlist, France
- 344 Involvement of COX-2 derived from cerebral perivascular macrophages in the early gastrointestinal motor disturbances induced by Lipopolysaccharide (LPS) in sheep
M. A. Plaza Carrion, A. Gimeno, M. Castro, L. F. Martínez, E. Latorre, L. Grasa, A. I. Alcalde, J. E. Mesonero, M. P. Arruebo, M. D. Murillo, Spain, France
- 345 Modulation of inflammation in IBD: Alpha7nAChR expression and role of nicotine
F. Galeazzi, G. Girardin, A. Grillo, P. Brun, R. D'Incà, M. Codato, M. Martinato, M. C. Giron, E. Savarino, G. C. Sturniolo, I. Castagliuolo, Italy
- 346 Muscular and nerve-mediated responses associated with inflammation in human gallbladder
M. A. Maselli, P. Trisolini, A. Ignazzi, M. L. Caruso, R. Laviano, D. Lorusso, F. Pezzolla, F. Crema, F. de Ponti, Italy

- 349 Changes in α - and β -adrenergic neurotransmission during postoperative ileus in rat
M. S. Kasperek, B. Goetz, B. Stoklas, P. Benhaqi, M. E. Kreis, Germany

- PS-24** **Poster Session**
12:30–14:30 Foyer Sala Magenta
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. Larache, H. Duboc, A. Mulak, Y. Tache, USA, Poland
- 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

- PS-25** **Poster Session**
12:30–14:30 Foyer Sala Magenta
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
- 351 Reduced sensory neuron activity in the aged mouse
J. Donovan, D. Grundy, United Kingdom
- 352 Developmental origins of functional dyspepsia like gastric hypersensitivity in rats
S. Sarna, J. Winston, USA
- 353 Electrical vagus nerve stimulation reduces plasma cholesterol and triglycerides levels in rats
K. Gil, A. Bugajski, M. Kurnik, P. Thor, Poland
- 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
- 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
- 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
- 357 5HT2B receptor mRNA expression throughout the brain-gut axis is unaltered in the maternally separated rat
V. D. Felice, T. G. Dinan, J. F. Cryan, S. M. O'Mahony, Ireland

Saturday, 8 September 2012 – Poster Presentations

- 358 Effect of DA-9701, new prokinetic, on colonic function of spinal cord injured rat model**
Y.-S. Kim, H.-S. Ryu, M.-C. Joo, J.-T. Oh, E.-S. Choi, S.-C. Choi, M.-Y. Lee, Republic of Korea
- 359 Changes in the modulation of spinal pain processing are related to severity in irritable bowel syndrome**
J.-M. Sabate, X. Moisset, P. Jouet, H. Duboc, B. Coffin, D. Bouhassira, France
- 360 Analysis of CGRPergic, nitrergic, and VIPergic myenteric innervation after 2% L-glutamine supplementation in the ileum of diabetic rats**
R. Pereira Caldeira, D. R Linden, J. Nelis Zanoni, Brazil, USA

| PS-26 | Poster Session |
|---|--------------------|
| 12:30–14:30 | Foyer Sala Magenta |
| Basic and translational session: Microbiota in health and disease | |
| Discussants: L. Bueno, France T. Shea-Donohue, USA | |
| 361 Age-associated remodeling of the intestinal epithelial barrier L. Tran, B. Greenwood-Van Meerveld, USA | |
| 362 The microbiome-gut-brain axis as a regulator of serotonergic neurotransmission and behaviour G. Clarke, S. Grenham, P. Scully, P. Fitzgerald, R. Moloney, F. Shanahan, T. Dinan, J. Cryan, Ireland | |
| 364 A novel mechanism for barrier dysfunction in mice on a high-fat diet L. Stenman, R. Holma, R. Korpela, Finland | |
| 365 Role of toll like receptors 2 and 4 in the serotonin-induced responses in mouse ileum and colon L. Grasa Lopez, M. D. Murillo, A. I. Alcalde, J. Pardo, E. Latorre, J. E. Mesonero, M. P. Arruebo, M. A. Plaza, S. Gonzalo, Spain | |

| 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 | |
| 366 Endogenous H2S produced by CSE selectively modulates central cholinergic synaptic input in mouse superior mesenteric ganglion L. Sha, D. Linden, G. Farrugia, J. Szurszewski, USA | |
| 367 NO in the gastrointestinal tract: What it takes to relax B. Lies, D. Groneberg, P. Koenig, D. Saur, A. Friebel, Germany | |
| 368 Mechanisms underlying motility in the aged gut: A role for altered serotonin signalling processes C. Keating, S. Kean, L. Nocchi, D. Grundy, United Kingdom | |
| 369 Dynamics of purinergic fast inhibitory junction potentials in the human colon N. Mañé, M. Martínez-Cutillas, V. Gil, P. Clavé, D. Gallego, M. Jiménez, Spain | |
| 370 Glucose malabsorption in critical illness: A molecular defect in intestinal sweet taste sensing? R. Young, A. Deane, B. Chia, M. Horowitz, R. Christopher, Australia | |
| 371 Functional characterisation of human and mouse proximal colon as a site of nutrient sensing M. Peiris, A. Masding, D. Bulmer, C. Knowles, L. A. Blackshaw, United Kingdom | |
| 372 Expression of duodenal fatty acid receptors in humans is inversely related to body mass index T. Little, R. Ott, R. Young, N. Isaacs, C. Rayner, M. Horowitz, C. Feinle-Bisset, Australia | |
| 373 Distinct effects of mechanical stretch on gene expression of PGE synthase and PGF synthase in lumen dilation Y.-M. Lin, F. Li, C. Wu, S. K. Sarna, X.-Z. Shi, USA | |
| 374 Mast cells are involved in post-inflammatory visceral hypersensitivity and exert their effects partially through histamine H1 receptors A. Deiteren, J. d. Man, T. Moreels, P. Pelckmans, B. d. Winter, Belgium | |

Poster Presentations – Saturday, 8 September 2012

- 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. Cabezas, 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. Thijss, 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
- 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. Lourenssen, 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
N. Shimojima, T. Shimizu, H. Ishihama, T. Fujimura, M. Kano, H. Tomita, F. Takasato, Y. Nakamura, A. Fujino, K. Hoshino, T. Kuroda, Japan
- 388 Interstitial cells of Cajal and their association with enteric nerves in human gastro-duodenal junction
X. Wang, P. Bercik, L. Ruo, J. Ramsay, T. Aziz, Z. Muqtadir, S. Orr, M. Pistilli, J. D. Huizinga, Canada
- 389 Colonic 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

PS-28

Poster Session

- 12:30–14:30 Foyer Sala Magenta
- Basic and translational session: Smooth muscle and ICC in health and disease**
- Discussants: T. Ordog, USA
K. Sanders, USA
- 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

| PS-29 | Poster Session | |
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| 12:30–14:30 | Foyer Sala Magenta | |
| 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 | | 401 Value of a rapid drink challenge test in the diagnosis of esophageal motility disorders I. Marin Fernandes, J. Contxa, J. Serra, Spain |
| 394 Postprandial changes in autonomic nervous system and frequency of transient lower oesophageal sphincter relaxation (TLOSSR) P. Kuo, I. Bravi, U. Marreddy, Q. Aziz, D. Sifrim, United Kingdom | | 402 Impact of bolus consistency and position on high-resolution manometric findings in patients A. Ouyang, T. Yasin, F. Meng, D. Bethards, USA, China |
| 395 Swallowing alterations after Traumatic Brain Injury (TBI) without brainstem involvement L. Candeloro, D. Badiali, I. Biviano, E. S. Corazziari, F. I. Habib, Italy | | 403 Multiple rapid swallows using high resolution esophageal manometry for motor disorders of the esophagus A. Sankineni, N. George, M. Harrison, H. Parkman, USA |
| 396 Esophageal high resolution manometry (HRM) in achalasia: Evaluation of the classification in a French multicentric cohort S. Roman, F. Zerbib, L. Quenehervé, H. Clermidy, S. Bruley des Varannes, F. Mion, France | | 404 Esophageal motor disorders and gastroesophageal reflux disease in lung transplanted patients M. Di Stefano, F. Meloni, C. Mengoli, T. Oggionni, M. Bergonzi, R. Di Domenica, A. M. Zanaboni, E. Miceli, E. Pagani, L. Maurizio, G. R. Corazza, Italy |
| 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 | | 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 |
| 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 | | 406 Can the 3-dimensional animation plot be a 3rd diagnostic tool in high-resolution manometry?: Comparison to conventional linear and spatiotemporal plot J.-H. Park, K.-W. Jung, S.-J. Myung, H.-Y. Jung, J. Kim, E. j. Chung, K. D. Choi, D.-H. Yang, Republic of Korea, People's Republic of Korea |
| 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 | | 407 Oesophagogastric junction relaxation in chagasic achalasia R. Oliveira, G. Mota, G. Carmo, Brazil |
| 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 | | 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. Kucheryavy, 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 oesophageal peristalsis impairment in patients with gastroesophageal reflux disease A. Ledovskaya, O. A. Sablin, Russia |

Poster Presentations – Saturday, 8 September 2012

- 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 hemodynamicfunction**
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. Kahrlas, 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**
H. Lee, J.-C. Park, S.-K. Shin, S.-K. Lee, Y.-C. Lee, Republic of Korea
- 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. Fukuhara, 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?**
T. Kamiya, M. Shikano, M. Tanaka, M. Ebi, T. Mizoshita, Y. Mori, S. Tanida, H. Kataoka, T. Joh, Japan
- 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

| PS-30 | Poster Session | |
|--|---|--|
| 12:30–14:30 | Foyer Sala Magenta | |
| Clinical session: Stomach: Clinical | | |
| Discussants: M. Camilleri, USA R. Cuomo, Italy C. Tosetti, Italy | | |
| 428 Development and validation of a mixed liquid/solid test meal for scintigraphic assessment of gastric function in clinical practice | H. Parker, E. Tucker, C. Hoad, N. Hudders, C. Costigan, L. Marciani, A. Perkins, E. Blackshaw, P. Gowland, M. Fox, United Kingdom | 437 Comparison of a breath test versus gastric scintigraphy for the measurement of gastric retention in healthy subjects R. Dickman, T. Tsadok Perets, T. Zilper, A. Steinmetz, L. Pakanaev, Y. Ron, H. Bernstein, D. Groshar, Y. Niv, H. Shirin, Israel |
| 429 Performance characteristics of scintigraphic measurement of gastric emptying of solids in health | M. Camilleri, J. Iturrino, A. E. Bharucha, D. Burton, A. R. Zinsmeister, USA | 438 Chronic transcutaneous electroacupuncture ameliorates dyspeptic symptoms in patients with diabetic gastroparesis: A placebo-controlled multicenter clinical trial using a newly developed microstimulator J. Chen, I. Sarosiek, R. McCallum, T. Abell, Y. Sun, N. Moody, J. Chen, J. Yin, USA |
| 430 Gastroparesis in the joint hypermobility syndrome | A. Fikree, C. O'Brien, R. Aktar, J. Jafari, N. Schaub, P. Kuo, D. Sifrim, Q. Aziz, United Kingdom | 439 Transcutaneous electrical stimulation (TES) therapy improves gastric emptying in children with slow-transit constipation – Implication for non-invasive treatment for delayed gastric emptying or gastroparesis B. Southwell, Y. I. Yik, D. J. Cook, D. M. Veysey, B. S. King, K. A. Morris, C. F. Tudball, T. M. Cain, A. G. Catto-Smith, J. M. Hutson, Australia, Malaysia |
| 431 Prevalence and outcomes of gastroparesis among hospitalized patients in US | S. Parasa, A. R. Mahankali Sridhar, K. Olden, USA | 440 Effects of the amino acid, glutamine, on gastric emptying and the glycaemic response to oral glucose in healthy young subjects D. Gentilcore, S. Ahmad, K. Jones, J. Greenfield, D. Samocha-Bonet, R. McKinnon, Australia |
| 432 Gallbladder and gastric motility in obese newborns, preadolescents and adults | A. Di Ciaula, P. Portincasa, D. Q.-H. Wang, Italy, USA | 442 Identification of novel domperidone metabolites in gastroparesis patients' plasma and urine A. Youssef, M. Pathikonda, U. Argikar, H. Parkman, S. Nagar, USA |
| 433 Functional dyspepsia syndrome is extremely frequent across the eating disorders | A. Santonicola, P. Iovino, S. Gallotta, A. Fortunato, L. Pellegrini, C. Ciacci, Italy | 443 Improvement in the quality of life related to reflux symptoms after Helicobacter pylori eradication therapy K. Hirata, H. Suzuki, J. Matsuzaki, T. Masaoka, Y. Saito, T. Nishizawa, E. Iwasaki, S. Fukuhara, S. Okada, T. Hibi, Japan |
| 434 Comparison of Continuous Breath Test (CBT) versus Gastric Scintigraphy (GS) for Gastric Emptying Rate (GER) measurement in healthy and dyspeptic subjects | R. Dickman, T. Zilper, A. Steinmetz, L. Pakanaev, Y. Ron, H. Bernstein, D. Groshar, Y. Niv, H. Shirin, Israel | 444 Alterations of body weight and hormones regulating food intake during a 1-year weight reduction program in obese outpatients A. Stengel, A. Riedl, A. Ahnis, A. Figura, T. Hofmann, U. Elbel, P. Kobelt, B. Klapp, Germany |
| 435 Upper functional gastrointestinal disorders in young adults | A. Toghiani, P. Adibi, E. Behzad, M. Shafieyan, Islamic Republic of Iran | |
| 436 Upper gastrointestinal symptoms after laparoscopic sleeve gastrectomy for morbid obesity | M. Carabotti, G. Silecchia, L. Piretta, F. Leonetti, D. Capoccia, F. Coccia, F. Greco, E. Corazziari, C. Severi, Italy | |

Poster Presentations – Saturday, 8 September 2012

| PS-31 | Poster Session | 454 | Prevalence and clinicoepidemiological features of chronic intestinal pseudo-obstruction in Japan: Findings from a nationwide epidemiological survey |
|--|--------------------|---|---|
| 12:30–14:30 | Foyer Sala Magenta | H. Iida, O. Hidenori, H. Sato, A. Nakajima, Japan | |
| 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. Hanek, O. D. Lærum, O. H. Gilja, J. G. Hatlebakk, 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) | | | |
| H. Ohkubo, E. Yamada, E. Sakai, T. Higurashi, H. Iida, Y. Sekino, H. Endo, H. Takahashi, M. Inamori, A. Nakajima, Japan | | | |
| 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 | | | |
| J.-W. Kim, S.-J. Myung, S.-J. Park, M.-Y. Do, K.-W. Jung, B.-D. Ye, J.-S. Byeon, S.-K. Yang, J.-H. Kim, Republic of Korea | | | |
| PS-32 | Poster Session | 455 | Automated cross-correlation analysis of pan-colonic manometry data clearly differentiates healthy controls from patients with constipation |
| 12:30–14:30 | Foyer Sala Magenta | P. Dinning, L. Wiklundt, S. Mohammed, M. Scott, Australia, United Kingdom | |
| Clinical session: Large bowel: Clinical | | | |
| Discussants: M. Bellini, Italy W. Chey, USA M. Simrén, Sweden | | | |
| 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 kynureanine pathway | | | |
| P. Kennedy, G. Clarke, A. O'Neill, C. O'Mahony, J. A. Groeger, E. M. Quigley, F. Shanahan, J. F. Cryan, T. G. Dinan, Ireland | | | |
| 458 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 | | | |
| 459 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 | | | |
| 460 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)**
C.-H. Choi, J.-W. Kim, Y.-S. Kim, H.-J. Kim, J.-H. Park, Y.-H. Yoon, H.-K. Jung, S.-K. Chang, Republic of Korea
- 464 **Use of antibiotics during infancy and childhood and risk of recurrent abdominal pain**
A. Uusijärvi, M. Simrén, J. Ludvigsson, M. Wickman, I. Kull, J. Alm, O. Olén, Sweden
- 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. Sobhani, 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**
R. T. Carson, L. M. Nelson, V. S. L. Williams, S. E. Fehnel, S. Tourkodimitris, M. J. Baird, J. M. Johnston, USA
- 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 intestine 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**
L. M. Nelson, V. S. L. Williams, S. E. Fehnel, S. Tourkodimitris, M. J. Baird, R. T. Carson, J. M. Johnston, USA
- 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**
J. E. MacDougall, D. P. MacKinnon, B. J. Lavins, A. J. Lembo, S. J. Schiff, H. A. Schneier, X. Hao, M. G. Currie, J. M. Johnston, USA
- 477 **Factor analyses of chronic constipation patient-reported outcome measures: Results from phase 2b and phase 3 trials of linaclotide**
L. M. Nelson, V. S. L. Williams, R. T. Carson, M. J. Baird, C. D. Coon, S. E. Fehnel, J. M. Johnston, USA

Poster Presentations – Saturday, 8 September 2012

| PS-33 | Poster Session |
|--|---|
| 12:30–14:30 | Foyer Sala Magenta |
| Clinical session: Anorectal: Clinical | |
| Discussants: | G. Basilisco, Italy G. Bazzocchi, Italy S. Rao, USA B. Salvioli, Italy |
| 478 | What is a clinically significant rectocele in functional constipation?: Relationship between rectal sensitivity, compliance, post-defecatory residue and rectocele size L. Candeloro, I. Biviano, D. Badiali, F. I. Habib, E. S. Corazziari, Italy |
| 479 | How accurate is computerized analysis versus an expert analysis for evaluating anorectal function using 3-D high definition anorectal manometry E. Coss-Adame, J. Valestin, S. Rao, USA |
| 480 | Fecal incontinence in patients with IBS A. Bajor, P. Jerlstad, G. Ringström, M. Simrén, Sweden |
| 481 | High resolution anorectal manometry in the diagnosis of pelvic floor dyssynergia L. Novais, Portugal |
| 482 | Simplified saline continence test for evaluation of anorectal capacity: Technique and normative data K. Tantiphlachiva, C. Sahakitrungruang, J. Pattanaarun, A. Rojanasakul, Thailand |
| 483 | Randomized trial of biofeedback or medical treatment for fecal incontinence E. Johansson, S. Walter, A. Ingemansson, A.-K. Ryn, O. Hallböök, Sweden |
| 484 | Surgical correction does not improve dyssynergic defecation in patients with rectal prolapse S.-Y. Park, H.-S. Kim, Y.-E. Joo, J.-S. Rew, H.-S. Ki, C.-H. Jun, K.-J. Park, K.-H. Lee, Republic of Korea |
| 485 | Transcutaneous tibial nerve stimulation in the treatment of faecal incontinence: A randomised trial A.-M. Leroi, L. Siproudhis, I. Etienney, H. Damon, F. Zerbib, G. Amarenco, V. Vitton, J. L. Faucheron, M. Queraltó, France |
| 486 | Does deep brain stimulation modify anorectal motility?: Result of a randomized cross-over study G. Gourcerol, S. Derrey, N. Chastan, D. Maltete, P. Freger, A. M. Leroi, J. Weber, France |
| 487 | Effect of biofeedback therapy in irritable bowel syndrome patients with intractable constipation O. Krapivnaia, S. Alexeenko, Russia |
| 488 | Top down medical treatment for dis-impaction of patients in aged-care setting J. Jordan-Ely, J. Hutson, B. Southwell, Australia |
| 489 | Home electric stimulation for women with fecal incontinence: Effectiveness and predictors of outcome R. Dickman, I. Lambort, N. Cohen-Zubary, S. Aizic, S. Levy, Israel |
| 489a | Quality of perception of the desire to defaecate and viscerosomatic referral patterns differ between patients with chronic constipation and healthy subjects R. Burgell, E. Carrington, S. Mohammed, P. Lunniss, M. Scott, United Kingdom |
| PS-34 | Poster Session |
| 12:30–14:30 | Foyer Sala Magenta |
| Clinical session: Miscellaneous | |
| Discussants: | E. Corazziari, Italy J. Tack, Belgium |
| 490 | Transcutaneous electrical acupuncture therapy for severe gastroparesis and constipation in a diabetic patient I. Sarosiek, A. Alvarez, Y. Sun, J. Chen, R. McCallum, USA |
| 491 | Translation and validation of the ROME-III questionnaires for the diagnosis of functional gastrointestinal disorders in Korea K. H. Song, H.-K. Jung, B. R. Keum, B.-H. Min, Y. H. Youn, K. D. Choi, K. C. Huh, Republic of Korea |
| 492 | Probiotics for prevention of radiation induced bowel disease: New findings and updated meta-analysis A. Hamad, K. Fragkos, A. Forbes, United Kingdom |
| 494 | Image guided radiation therapy (IGRT) reduces gastrointestinal (GI) sequelae compared with external beam radiation therapy (EBRT) in patients with carcinoma of the prostate (CaP) A. Di Matteo, R. Botten, J. Butters, R. Holloway, E. Yeoh, Australia |
| 495 | Level of Acetylcholine and serotonin in patients with chronic pancreatitis and pain after eating L. Lazebnik, O. Knayzev, L. Vinokourova, I. Trubitsyna, E. Dubtsova, Russia |
| 496 | Correlation between gastrointestinal |

Saturday, 8 September 2012 – Poster Presentations

- symptoms(GI) with clinical factors and the treatment with Metformin in Diabetes 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?**
K. T. Ho Siah, R. K. Wong, K. Y. Ho, J. Y. Y. Wong, S. C. Fan, K.-A. Gwee, Singapore
- 498 Gastrointestinal contraction patterns and segmental transit times evaluated with ambulatory capsule tracking**
A. M. Haase, T. Gregersen, L. Fynne, V. Schlageter, 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. Scholfield, P. Gowland, S. Francis, R. Spiller, United Kingdom
- 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. L. Guarino, A. Gizzi, 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**
A. Altomare, M. P. L. Guarino, R. Sessa, S. Cocca, M. Di Pietro, G. Schiavoni, R. Alloni, C. Severi, M. Cicala, Italy

PS-35

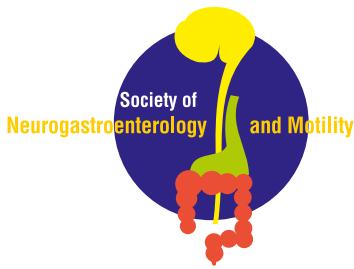
Poster Session

12:30–14:30

Foyer Sala Magenta

Late breaking abstracts

- 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



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

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.

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UEG e-learning is a unique, universal resource for information and education in gastrointestinal disease, treatment and care.



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: njm2012@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

| Category | EUR |
|--|-----|
| Member of ESNM or ANMS | 600 |
| Non-Member of ESNM or ANMS | 650 |
| Resident, Post-Doctoral Fellow, Trainee* | 300 |
| Accompanying Person | 100 |

* 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



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.



Gut Microbiota & Health

A SECTION OF THE EUROPEAN SOCIETY
OF NEUROGASTROENTEROLOGY AND MOTILITY

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The board of directors is composed of:

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Prof P. Enck, Tübingen - Germany

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Prof M. Simren, Gothenburg - Sweden

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.

To become
a member,
visit the ESNM website:
<http://www.esnm.eu>

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



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

GUT MICROBIOTA
FOR HEALTH
1st World Summit

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.

Social Programme



Palazzo dei Congressi



Palazzo Re Enzo

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.

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

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

City of Bologna and Supporting Programme

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.



Bologna



Piazza Maggiore



Piazza del Nettuno



S. Stefano

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.



Bologna: Palazzo Comunale

Exhibitors Floor Plan

Sala Maggiore, First Floor



Exhibitors, Sponsors and Acknowledgements

Exhibitors in alphabetical order

(as of August 2012)

| Name | Booth No. |
|---|-----------|
| Alfa Wassermann S.p.A. | 2 |
| ANMA – Asian Neurogastroenterology and Motility Association | 4 |
| ANMS – American Neurogastroenterology and Motility Society | 12 |
| ESNM – European Society of Neurogastroenterology and Motility | 11 |
| GE Healthcare | 9 |
| Given Imaging GmbH | 8 |
| Italchimici SpA | 15 |
| MEDICA S.p.A. | 16 |

| Name | Booth No. |
|-------------------------------------|-----------|
| Medical Measurement Systems b.v. | 10 |
| Medtronic | 14 |
| NATHURA S.R.L. | 17 |
| Norgine Italia SRL | 13 |
| ROME Foundation | 3 |
| Sandhill Scientific, Inc | 5 |
| Shire | 1 |
| SOFAR S.p.A. | 7 |
| UNIBO Store – University of Bologna | 18 |
| Yakult Europe B.V. | 6 |

Acknowledgements

The organisers gratefully acknowledge the support of the following companies:

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Italchimici SpA
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Medtronic
NATHURA S.R.L.
Norgine Italia SRL
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SymbioPharm GmbH
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List of Authors

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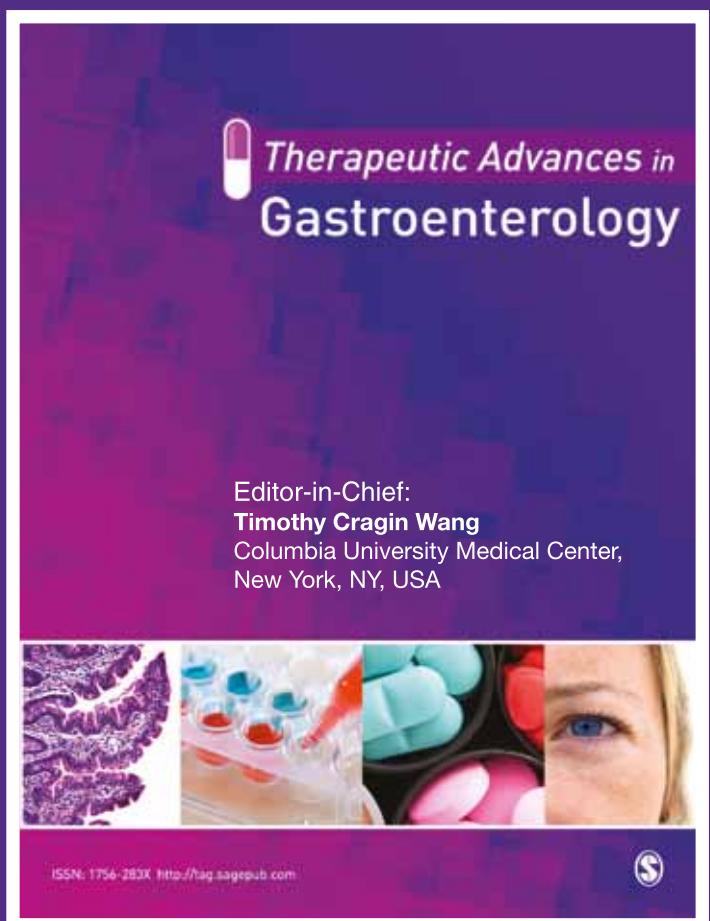
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|-----------|--------------------|
| L | Lectures |
| WS | Workshops |
| OP | Oral Presentations |
| PS | Poster Sessions |
| IG | Interest Groups |
| SA | Satellite Symposia |

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