



MENARINI

International Symposium on

New Vistas on Gastrointestinal Motility: from Physiology to Therapy

Rome (Italy), September 28th – 29th, 2007

Organized by

DEPARTMENT OF PHARMACOLOGY AND DEPARTMENT OF INTERNAL MEDICINE CATHOLIC UNIVERSITY, ROME (ITALY)

FONDAZIONE INTERNAZIONALE MENARINI

FINAL PROGRAM

Auditorium Catholic University Largo F. Vito, 1





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Through the centuries, humans have had to fight with symptoms like nausea, vomiting, postprandial fullness, abdominal bloating, abdominal discomfort, heartburn, constipation and diarrhea. These symptoms are not always brought about by structural diseases of the gastrointestinal tract. They can, for example, be caused by alterations of gastrointestinal motility and/or sensation. These disorders affect an important percentage of the population and are therefore serious public health problems. Gastroparesis, gastro-esophageal reflux disease (GERD) and functional disorders [dyspepsia and irritable bowel syndrome (IBS)] are among the most important. Gastroparesis and GERD are disorders that are caused by defects of gastric or lower esophageal sphincter motility. Functional gastrointestinal disorders, like functional dyspepsia and IBS, are considered to be the clinical product of interacting psychosocial factors and altered gut physiology (abnormal motility, altered mucosal immunity, or visceral hypersensitivity) via the brain-gut axis.

The aim of this meeting, organized by the Department of Pharmacology and Department of Internal Medicine of the Catholic University of the Sacred Heart, and Fondazione Internazionale Menarini, is to cover a selected range of basic scientific and clinical topics in the field of gastrointestinal motility and neurogastroenterology. Many cutting-edge themes have been included in the program and the speakers have been chosen among leaders in research involving neurogastroenterology and gastrointestinal motility. We believe this meeting will contribute to improve understanding of the physiology and pathophysiology of neuromuscular behavior in the gastrointestinal tract and related pharmacological and clinical aspects of some motor and functional gastrointestinal disorders. It is therefore addressed to a vast audience - anatomists, physiologists, pharmacologists, pathologists, gastroenterologists and, also, general practitioners, surgeons and other clinicians.

The first session of the symposium will focus on providing a state-of-the-art picture of the physiology of gastrointestinal motility. It will lay the groundwork for a better understanding of current and new pharmacological treatments of some of the most important motor and functional gastrointestinal disorders. In particular, the treatment of novel aspects of the regulation of lower esophageal sphincter, stomach and colon motility will contribute to an in-depth analysis of new avenues in the pharmacological treatment of GERD, functional dyspepsia and IBS, topics discussed during the second and third sessions. New pharmacological targets for gastrointestinal disorders will be treated, including the endocannabinoid system, protease-activated receptors and ghrelin receptors, together with "old" pharmacological targets, including serotoninergic and tachykininergic systems, motilin receptors and ion channels. A general picture outlining the pharmacological aspects of functional gastrointestinal diseases and current and new therapies of GERD, functional dyspepsia and IBS will be also offered during the second and third sessions. The general topic of gastroparesis will be treated, by talking about new avenues in the development of prokinetic drugs. And last, but not least, new approaches to the treatment of opioid-induced constipation will be discussed.

Hopeful that this symposium will arouse great interest within the scientific community, we will be very happy to welcome you to Rome at the end of September this year.

Paolo Preziosi and Giovanni Gasbarrini Co-Presidents of the Meeting

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Paolo Preziosi

Department of Pharmacology Catholic University Rome (Italy)

Giovanni Gasbarrini

Department of Internal Medicine Catholic University Rome (Italy)

Scientific Secretariat

Diego Currò

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Organizing Secretariat

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Friday, September 28th, 2007 – Morning Catholic University (Rome)

08.30	Opening remarks by Prof. Paolo Magistrelli, Dean of the Faculty of Medicine and Surgery
Session I -	State-of-the-art physiology of gastrointestinal motility
Chairmen:	D. Currò (Rome, I) P. Holzer (Graz, A)
08.45	M. Costa (Adelaide, AUS) Lecture on "Architecture of enteric neural circuits involved in intestinal motility"
09.15	L. Barthó (Pécs, H) Role of extrinsic afferent neurons in gastrointestinal motility
09.45	K.M. Sanders (Reno, USA) Rhythmic electrical activity and regulation of gut motility
10.15	S.J.H. Brookes (Adelaide, AUS) Structural basis of sensory nerve pathways from the gut
10.45	Coffee break
11.15	L.A. Blackshaw (Adelaide, AUS) New insights in the neural regulation of the lower oesophageal sphincter
11.45	M. Schemann (Munich, D) Gastric motor patterns
12.15	S.K. Sarna (Galveston, USA) Novel aspects of enteric neural regulation of colonic motility
12.45	Conclusions of chairmen
13.00	Lunch

Friday, September 28th, 2007 – Afternoon Catholic University (Rome)

Session II -	Emerging targets for gastrointestinal motor disturbances I
Chairmen:	M. Camilleri (Rochester, USA) S.K. Sarna (Galveston, USA)
14.45	A. Lehmann (Mölndal, S) Novel treatments of GERD: focus on the lower oesophageal sphincter (LES)
15.15	D. Grundy (Sheffield, UK) The 5-HT system in the gut: roles in the regulation of visceral sensitivity and motor functions
15.45	J. Tack (Leuven, B) Current and emerging pharmacological therapies of functional dyspepsia
16.15	Coffee Break
16.45	A. Lecci (Florence, I) Relevance of the tachykininergic system to gastrointestinal motility
17.15	A. Gasbarrini (Rome, I) New insights into the pathophysiology of IBS: intestinal microflora, gas production and gut motility
17.45	V. Stanghellini (Bologna, I) Overlapping functional syndromes: the way forward for medical therapy?
18.15	Conclusions of chairmen

Saturday, September 29th, 2007 – Morning Catholic University (Rome)

Special Lecture – A window on history

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08.40	M. Balestrero (Rome, I) The evolution of Western-European eating habits
Session III -	Emerging targets for gastrointestinal motor disturbances II
Chairmen:	V. Stanghellini (Bologna, I) J. Tack (Leuven, B)
09.00	P. Holzer (Graz, A) New approaches to the treatment of opioid-induced constipation
09.30	A.A. Izzo (Naples, I) Marijuana and the gut: the gastrointestinal endocannabinoid system
10.00	L. Bueno (Toulouse, F) Protease-activated receptors as drug targets
10.30	Coffee break
11.00	T.L. Peeters (Leuven, B) Old and new targets for prokinetic drugs: motilin and ghrelin receptors
11.30	G. Farrugia (Rochester, USA) Ion channels as targets for treatment of gastrointestinal motility disorders
12.00	M. Camilleri (Rochester, USA) Lecture on "New therapeutic approaches in irritable bowel syndrome"
12.30	Concluding remarks
13.00	Lunch

GENERAL INFORMATION

Meeting venue

The venue for the Meeting will be:

Auditorium, Europe Congress Centre, Catholic University, Largo F. Vito, 1 I-00168 Rome (Italy). Phone +39 06 30511.51-71.

Secretariat during the Meeting

The Secretariat will be open at the following times:

Friday, September 28th, from 08.30 a.m. to 06.30 p.m. Saturday, September 29th, from 08.30 a.m. to 01.00 p.m.

Official language

The official language of the Meeting will be English.

CME Credits

CME Credits have been applied for from the Italian Health Authorities.

Technical facilities

Facilities will be available for computer presentations and overhead projections. A business center with PC (Powerpoint for Windows) will be available for check and preview of presentations. It is essential that speakers take their CD to the business center at least one hour before the session starts.

The center will be open at the following times:

Friday, September 28th, from 08.30 a.m. to 06.30 p.m. Saturday, September 29th, from 08.30 a.m. to 01.00 p.m.

Lunches and coffee breaks

Lunches and coffee breaks will be served in the Meeting area.

Abstracts book

Participants will receive the Abstract book at the Meeting.

LIST OF CHAIRMEN, SPEAKERS, CO-PRESIDENTS OF THE MEETING AND SCIENTIFIC SECRETARIAT

Monica BALESTRERO

Rome (Italy)

Loránd BARTHÓ

Department of Pharmacology University Medical School of Pécs Pécs (Hungary)

L. Ashley BLACKSHAW

Nerve Gut Research Laboratory Department of Gastroenterology and Hepatology Royal Adelaide Hospital Hanson Institute Adelaide (Australia)

Simon H. BROOKES

Department of Physiology and Centre for Neuroscience Flinders University Adelaide (Australia)

Lionel BUENO

Neurogastroenterology Unit INRA Toulouse (France)

Michael CAMILLERI

Atherton and Winifred W. Bean Professor Professor of Medicine and Physiology Mayo Clinic College of Medicine Rochester (MN, USA)

Marcello COSTA

Department of Physiology and Centre of Neuroscience Flinders University Adelaide (Australia)

Diego CURRÒ

Department of Pharmacology Catholic University Rome (Italy)

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Department of Physiology and Biomedical Engineering Mayo Clinic College of Medicine Rochester (MN, USA)

Antonio GASBARRINI

Department of Internal Medicine Catholic University Rome (Italy)

Giovanni GASBARRINI

Department of Internal Medicine Catholic University Rome (Italy)

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Research Unit of Translational Neurogastroenterology Institute of Experimental and Clinical Pharmacology Medical University of Graz Graz (Austria)

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Clinical Research Department Menarini Ricerche spa Florence (Italy)

Anders LEHMANN

AstraZeneca R&D Mölndal Mölndal (Sweden)

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Gut Peptide Laboratory University of Leuven Leuven (Belgium)

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