

European Helicobacter Study Group (EHSg)

XVIII International Workshop Gastrointestinal Pathology and Helicobacter

FINAL PROGRAMME



Falconer Center, Copenhagen, Denmark
October 12-14, 2005

www.helicobacter.org

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As per printing date

WELCOMING ADDRESS

Dear colleagues and friends,

It is with great pleasure that we welcome you to the **XVIII International Workshop on Gastrointestinal Pathology and Helicobacter**.

Many of you may already know Copenhagen, from previous visits, as an international metropolis with an informal attitude, yet it is an international city, more than 800 years old and has one of the oldest Universities in Europe. Copenhagen combines old traditions with globalization and development. It is well known for the international design and it hosts one of the world's largest biotechnology centres, the Medicon Valley, a collaboration between institutions and companies located around Oresund.

On Wednesday, October 12th, there will be an opening reception at the Town Hall of Copenhagen. This will be followed by two days of intensive scientific information presented as a mixture of plenary sessions, special parallel sessions and poster rounds.

The purpose of *The International Workshop* is to offer the most comprehensive and most distinctly interdisciplinary scientific updates on *Helicobacter* infections. The EHSO finds that this purpose has been achieved in previous years because of your valuable contributions and active participation in this event and we are confident that this will continue in the future.

We sincerely hope that you will enjoy both the scientific as well as the social part of the workshop.

Leif Percival Andersen
President of EHSO

Karen Krogfelt & Peter Bytzer
Scientific Secretaries

COMMITTEES – ORGANISATION

Local Organizing Committee

Leif P. Andersen (President)
Jens Blom
Peter Bytzer (Scientific Secretary)
Hanne Colding

Karen A. Kroghfelt (Scientific Secretary)
Henrik Permin
Andreas Munk Petersen
Johan Wandall

European Helicobacter Study Group (EHSg)

President

Leif P. Andersen, Denmark

Members

Anthony Axon, United Kingdom
Giovanni Gasbarrini, Italy
Alexander M. Hirschl, Austria
Ernst Kuipers, The Netherlands
Peter Malfertheiner, Germany
Francis Mégraud, France
Pierre Michetti, Switzerland
Colm A. O'Morain, Ireland
José M. Pajares Garcia, Spain
Mario G. Quina, Portugal
Theodore Rokkas, Greece
Pentti I. Sipponen, Finland
Torkel M. Wadström, Sweden

Honorary Members

Michel A.L. Deltenre, Belgium
David Y. Graham, United States
Adrian Lee, Australia
Barry Marshall, Australia
Ashley B. Price, United Kingdom
Erik A.J. Rauws, The Netherlands
Guido N.J. Tytgat, The Netherlands

Corresponding Fellows

Luis G. Coehlo, Brazil
Toshio Fujioka, Japan
Varocha Mahachai, Thailand
Shu Dong Xiao, China

Organising Offices

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Hotel Accommodation

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Technical Exhibition

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WORKSHOPS OF THE EHSg

- Bordeaux (1988)
- Ulm (1989)
- Toledo (1990)
- Bologna (1991)
- Dublin (1992)
- Brussels (1993)
- Houston (1994)
- Edinburgh (1995)
- Copenhagen (1996)
- Lisbon (1997)
- Budapest (1998)
- Helsinki (1999)
- Rome (2000)
- Strasbourg (2001)
- Athens (2002)
- Stockholm (2003)
- Vienna (2004)
- Copenhagen (2005)

Next Workshop

Wroclaw, Poland, September 7-9, 2006
www.helicobacter.org

PROGRAMME AT A GLANCE

Wednesday, October 12

17.30 – 19.00 hrs

Opening of EHSB 2005
Copenhagen City Hall

Thursday, October 13

08.30 – 09.00 hrs

Opening lecture
Falconer Auditorium

"*H. pylori* and human migrations", *M. Achtman, Germany*

09.00 – 10.30 hrs

Plenary session: "Gastric cancer update"
Falconer Auditorium

Does gastric cancer arise from the stomach?, *J. Fox, USA*
Gene errors in gastric carcinogenesis, *A. Milne, The Netherlands*
Clinical and biological differences in diffuse and intestinal type gastric cancer, *P. Sipponen, Finland*
Prevention of gastric cancer by *H. pylori* eradication. Summary of the Maastricht-3 conference, *P. Malfertheiner, Germany*

10.30–11.30 hrs

Coffee break

11.00–12.30 hrs

Parallel Workshops 1 – 2

1. Epidemiology, children and diagnostics
Falconer Auditorium

2. Pathology and carcinogenesis
Room 102-103

12.30–13.00 hrs

Lunch break

13.00–14.30 hrs

Poster Sessions 1 – 3
Falconer Hall

14.30–16.00 hrs

Plenary session: "Molecular aspects of *H. pylori*-host relationship"
Falconer Auditorium

Innate immune recognition of *Helicobacter*, *R. Ferrero, Australia*
Basis for the development of an *H. pylori* vaccine, *T. Aebischer, Germany*
H. pylori Vac A toxin and its receptor proteins, *T. Hirayama, Japan*

16.00–16.30 hrs

Coffee break

16.30–18.00 hrs

Diagnosis of *Helicobacter* Infections
Falconer Auditorium

Is serology useful for *Helicobacter* diagnosis today? *H. Rautelin, Finland*
H. pylori antigen in stool samples, *A.M. Hirschl, Austria*
New progress in UBT, *K. Mönkemüller, Germany*
PCR and other genomic techniques for diagnosing *Helicobacter*, *H.O. Nilsson, Sweden*
Accuracy of *Helicobacter pylori* diagnostic tests in patients with bleeding peptic ulcer: a systematic review and meta-analysis, *J. P. Gisbert, Spain*
Helicobacter pylori-based management strategies for dyspeptic patients, *P. Bytzer, Denmark*

18.00–19.00 hrs

Probiotics in *Helicobacter* infections
Falconer Auditorium

Basic aspects of pre- and probiotics – A report from the 2nd International workshop on probiotic in gastric and intestinal diseases, *B. Ho, Singapore*
Probiotics and gastrointestinal diseases, *P. Pietta, Italy*
Has pre- and/or probiotic a future in *Helicobacter* infections? *J. Wandall, Denmark*

PROGRAMME AT A GLANCE

Friday, October 14	
8.30–10.00 hrs	Parallel Workshops 3 – 4
3. Microbiological aspects <i>Room 102-103</i>	4. Clinical experiences <i>Falconer Auditorium</i>
10.00–10.30 hrs <i>Coffee break</i>	
10.30–12.00 hrs	Parallel Workshops 3 – 4
5. Genetics, immunology and vaccines <i>Falconer Auditorium</i>	6. Extragastric manifestations and new Helicobacters <i>Room 102-103</i>
12.00–12.30 hrs <i>Lunch break</i>	
12.30–14.00 hrs	Poster Sessions 1 – 3 <i>Falconer Hall</i>
14.00–15.30 hrs	Plenary session: "Impact of <i>H. pylori</i> infection on thrombocyte, erythrocyte and lymphocyte" <i>Falconer Auditorium</i>
<i>H. pylori</i> and iron deficiency anemia, B. Annibale, Italy <i>H. pylori</i> , B12 vitamin deficiency and anemia, M. Härkönen, Finland <i>H. pylori</i> infection and Idiopathic Thrombocytopenic Purpura, G. Torelli, Italy <i>H. pylori</i> and the lymphocytes: response and independence, C. Prinz, Germany	
15.30–16.00 hrs <i>Coffee break</i>	
16.00–16.45 hrs	Debate: "Evaluation of <i>H. pylori</i> Infection" <i>Falconer Auditorium</i>
Importance of bacterial virulence factors, J. Atherton, Nottingham, UK Importance of host genetics, E. El Omar, Aberdeen, UK Bacteria and mucosal inflammation of the gut; lessons from <i>H. pylori</i> , E. Kuipers, Amsterdam, The Netherlands	
16.45–17.00 hrs	Establishing of B. Marshall as Honorary Member of the EHS Presentation of EHS 2006 and Closing remarks <i>Falconer Auditorium</i>

Programme Wednesday, October 12

17.30 – 19.00 hrs **Opening of EHSO 2005** **Copenhagen City Hall**
Opening reception (dinner) at the City Hall of Copenhagen
Rådhuspladsen (Town Hall Square), 1599 Copenhagen V

Free for registered participants and accompanying persons, however registration for this event is mandatory.

Programme Thursday, October 13

08.30 – 09.00 hrs **Opening lecture** **Falconer Auditorium**
Chair: D. Graham, United States & T. Rokkas, Greece

"*H. pylori* and human migration"
M. Achtman, Berlin, Germany

09.00 – 10.30 hrs **Plenary session: "Gastric cancer update"** **Falconer Auditorium**
Chair: D. Graham, USA & T. Rokkas, Greece

Does gastric cancer arise from the stomach?
J. Fox, Boston, MA, USA

Gene errors in gastric carcinogenesis
A. Milne, Amsterdam, The Netherlands

Clinical and biological differences in diffuse and intestinal type gastric cancer
P. Sipponen, Espoo, Finland

Prevention of gastric cancer by *H. pylori* eradication. Summary of the Maastricht-3 conference
P. Malfertheiner, Magdeburg, Germany

10.30–11.30 hrs *Coffee break*

Programme Thursday, October 13

- 11.00 – 12.30 hrs** **Parallel Workshop 1. Epidemiology, pediatrics and diagnosis** **Falconer Auditorium**
Chair: F. Mégraud, France & V. Wever, Denmark
- 04.01. Specific African genotype among *Helicobacter pylori* strains
G. I. Perez Perez¹, A. Z. Olivares¹, K. N. Horstman¹, R. M. Peek², C. N. Bernstein³, E. Garza Gonzalez⁴, J. Torres⁵, M. J. Blaser¹;
¹New York University, New York, NY, United States, ²Vanderbilt University School of Medicine, Nashville, TN, United States, ³University of Manitoba, Winnipeg, MB, Canada, ⁴Universidad Autonoma de Nuevo Leon, Monterrey, Nuevo Leon, Mexico, ⁵Instituto Mexicano del Seguro Social, Mexico City, Mexico.
- 04.06. The mother as intrafamilial source of *Helicobacter pylori* infection: a prospective birth cohort.
M. Weyermann¹, G. Adler², H. Brenner¹, D. Rothenbacher¹;
¹Dept. of Epidemiology, The German Centre for Research on Ageing, D- 69115 Heidelberg, Germany, ²Dept. of Internal Medicine I, University of Ulm, D- 89081 Ulm, Germany.
- 10.01. Candidate biomarkers of *H. pylori* for discrimination of clinical isolates associated with duodenal ulcer or gastric cancer
G. Khoder¹, J. D'Alayer², A. Truong³, B. Janvier¹, A. Burette⁴, C. Burucoa¹, J. Fauchère¹, C. Atanassov¹;
¹EA 3807, Poitiers, France, ²Institut Pasteur, Paris, France, ³Ciphergen Biosystems, Paris, France, ⁴CHIREC/Sites de la Basilique & E. Cavell, Bruxelles, Belgium.
- 10.02. Development of a *Helicobacter* genus DNA probe for fluorescent *in-situ* hybridisation (FISH) in gastrointestinal (GI) clinical samples
I. A. M. Cooper¹, G. L. Hold¹, Z. Shen², J. G. Fox², E. M. El-Omar¹;
¹GI research group, Department of Medicine & Therapeutics, University of Aberdeen, Aberdeen, United Kingdom, ²Division of Comparative Medicine, Massachusetts Institute of Technology, Cambridge, MA, United States.
- 09.03. Gastric epithelial proliferation in *H. pylori* infected children
C. T. Cartelle, D. M. M. Queiroz, G. A. Rocha, A. M. C. Rocha, **A. M. M. F. Nogueira**;
Federal University of Minas Gerais/F. of Medicine, Belo Horizonte, MG, Brazil.
- 09.08. Paediatric *Helicobacter pylori* infection: presentation and outcome over two decades in a single centre.
M. Vitug-Sales¹, **H. M. Mitchell**², T. Bohane³, V. Tobias⁴, A. Day³;
¹Department of Paediatric Gastroenterology, Sydney Children's Hospital, Sydney, NSW, Australia, ²School of Biotechnology and Biomolecular Sciences, University of NSW, Sydney, NSW, Australia, ³School of Women's and Children's Health, University of NSW, Sydney, NSW, Australia, ⁴Department of Pathology, Sydney Children's Hospital, Sydney, NSW, Australia.
- Report on the pre-meeting of the EHSB Pediatric Task Force**
- 12.30 – 13.00 hrs *Lunch break*

- 11.00 – 12.30 hrs** **Parallel Workshop 2. Pathology and carcinogenesis** **Room 102-103**
Chair: E. El-Omar, United Kingdom & J.M. Pajares-Garcia, Spain
- 06.01. Increased expression of survivin in gastrin enhancement of *Helicobacter pylori* -induced precancerosis in Mongolian gerbils
T. Brzozowski¹, P. C. Konturek², S. Kwiecien¹, W. Bielanski¹, S. J. Konturek¹, R. Pajdo¹, W. Pawlik¹, G. Burnat², E. G. Hahn²;
¹Department of Physiology, Jagiellonian University Medical College, Cracow, Poland, ²Department of Medicine I, University of Erlangen-Nuremberg, Erlangen, Germany.
- 06.02. NH₄⁺ inhibition of SLC26A9-a possible mechanism behind *Helicobacter pylori* induced reduction in gastric juxtamucosal pH.
J. Henriksnäs¹, M. Storm², M. Phillipson¹, L. Engstrand², M. Soleimani³, L. Holm¹;
¹Dept. of Medical Cell Biology, Uppsala University, Uppsala, Sweden, ²Dept. of Bacteriology, Swedish Institute for Infectious Disease Control, Solna, Sweden, ³Dept. of Medicine, University of Cincinnati, Cincinnati, OH, United States.
- 06.03. Apoptosis in *Helicobacter pylori* gastritis is related to *cagA* status
M. M. D. A. Cabral, C. C. Mendes, D. M. M. Queiroz, G. A. Rocha, A. M. C. Rocha, A. M. M. F. Nogueira;
Federal University of Minas Gerais/F. of Medicine, Belo Horizonte, MG, Brazil.
- 06.04. Effect of *Helicobacter pylori* infection on Hepatitis C virus infection
H. El-Zimaity, B. Yoffe, S. Tavakoli-Tabassi, B. Hollinger, S. Abudayyeh, Z. Nurgalieva, B. Anand;
Baylor College of Medicine, Houston, TX, United States.
- 07.05. Significant Differences in The Distribution of Polymorphisms in IL-1B-511, IL-1B-1473 and IL1RN between Ethnic Groups resident in Malaysia
H. M. Mitchell¹, M. Ha¹, K. Goh², K. Fock³, D. Forman⁴;
¹School of Microbiology & Immunology, University of New South Wales, Sydney, Australia, ²Department of Medicine, University of Malaya, Kuala Lumpur, Malaysia, ³Changi General Hospital, Singapore, Singapore, ⁴Cancer Registry, Leeds, United Kingdom.
- 07.06. Epigenetic alterations in patients with *H. pylori* associated advanced changes in gastric mucosa and patients with gastric cancer - risk assessment by determination of global hypomethylation of CpG sites
A. Leodolter¹, S. Alonso¹, M. Ebert², C. Roecken³, T. Wex², U. Peitz², P. Malfertheiner², M. Peruch¹;
¹The Burnham Institute, La Jolla, CA, United States, ²Department of Gastroenterology, Magdeburg, Germany, ³Institute of Pathology, Magdeburg, Germany.
- 07.01. Oxidative DNA damage in patients with gastritis and gastric cancer infected by *Helicobacter pylori*.
M. L. Ribeiro¹, M. S. P. Ladeira², M. A. M. Rodrigues², W. Bartchewsky Jr¹, C. L. S. Pinto², R. G. Mattos¹, R. P. Prado², S. Mendonça¹, J. Guerra³, D. M. M. Queiroz³, J. Pedrazzoli Jr¹, D. M. F. Salvadori²;
¹Clinical Pharmacology and Gastroenterology Unit, Sao Francisco University Medical School., Braganca Paulista, Brazil, ²Departamento de Patologia, Faculdade de Medicina, UNESP, Botucatu, SP, Brazil, ³Laboratório de Pesquisa em Bacteriologia, Faculdade de Medicina, UFMG, Belo Horizonte – MG, Brazil.
- 07.03. C/EBP-beta is expressed in gastric carcinoma and leads to overexpression of cyclooxygenase-2
G. Regalo^{1,2}, P. Canedo^{1,2}, M. L. Campos¹, M. B. Loncar³, C. Figueiredo^{1,2}, F. Carneiro^{1,2}, J. C. Machado^{1,2};
¹IPATIMUP - Institute of Molecular Pathology and Immunology of the University of Porto, Porto, Portugal, ²Faculty of Medicine, University of Porto, Porto, Portugal, ³Division of Molecular Genetics, Institute of Anthropology and Human Genetics, University of Tübingen, Tübingen, Germany.
- 12.30 – 13.00 hrs *Lunch break*

Programme Thursday, October 13

13.00 – 14.30 hrs	Poster Sessions 1 – 3	Falconer Hall
Poster Session 1 Topics:	Chair: A. Makristathis, Austria & H. Permin, Denmark 04. Epidemiology and transmission 09. Paediatric issues 10. Diagnosis	
Poster Session 2 Topics:	Chair: M. Härkönen, Finland & J. Blom, Denmark 06. Pathology and pathophysiology 07. Preneoplastic and neoplastic diseases	
Poster Session 3 Topics:	Chair: B. Ho, Singapore & A. Gasbarrini, Italy 08. Oesophageal and extradigestive diseases 15. Other Helicobacters 16. Hepatobiliary Diseases	
14.30 – 16.00 hrs	Plenary session: "Molecular aspects of <i>H. pylori</i>-host relationship"	Falconer Auditorium
Chair:	P. Michetti, Switzerland & L. Engstrand, Sweden Innate immune recognition of Helicobacter <i>R. Ferrero, Melbourne, Australia</i> Basis for the development of an <i>H. pylori</i> vaccine <i>T. Aebischer, Berlin, Germany</i> <i>H. pylori</i> Vac A toxin and its receptor proteins <i>T. Hirayama, Nagasaki, Japan</i>	
16.00–16.30 hrs	Coffee break	
16.30 – 18.00 hrs	Diagnosis of Helicobacter Infections	Falconer Auditorium
Chair:	L.P. Andersen, Denmark & A.M. Hirschl, Austria Is serology useful for Helicobacter diagnosis today? <i>H. Rautelin, Helsinki, Finland</i> <i>H. pylori</i> antigen in stool samples <i>A.M. Hirschl, Vienna, Austria</i> New progress in UBT <i>K. Mönkemüller, Germany</i> PCR and other genomic techniques for diagnosing Helicobacter <i>H.O. Nilsson, Lund, Sweden</i> Accuracy of <i>Helicobacter pylori</i> diagnostic tests in patients with bleeding peptic ulcer: a systematic review and meta-analysis <i>J.P. Gisbert, Madrid, Spain</i> <i>Helicobacter pylori</i> -based management strategies for dyspeptic patients <i>P. Bytzer, Glostrup, Denmark</i>	
18.00 – 19.00 hrs	Probiotics in Helicobacter infections	Falconer Auditorium
Chair:	A. Gasbarrini, Italy & J. Wandall, Denmark Basic aspects of pre- and probiotics – A report from the 2 nd International workshop on probiotics in gastric and intestinal diseases <i>B. Ho, Singapore</i> Probiotics and gastrointestinal diseases <i>P. Pietta, Milan, Italy</i> Has pre- and/or probiotics a future in Helicobacter infections? <i>J. Wandall, Copenhagen, Denmark</i>	

Programme Friday, October 14

- 08.30 - 10.00 hrs** **Parallel Workshop 3. Microbiological aspects** **Room 102-103**
Chair: J. Atherton, United Kingdom & K.A. Krogfelt, Denmark
- 01.01. DNA transfer from coccoid to bacillary forms of *Helicobacter pylori*
A. Maillet¹, M. Garnier¹, N. Quellard², B. Fernandez², J. Fauchère¹, C. Burucoa¹;
¹EA 3807 Université de Poitiers - Laboratoire de Microbiologie A, CHU La Milétrie, Poitiers, France, ²Service d'Anatomie et Cytologie pathologiques, CHU La Milétrie, Poitiers, France.
- 03.01. A Low-molecular-weight protein of *H. pylori* inhibits human T cell proliferation
C. Schmees¹, T. Treptau¹, L. Hengst², R. Rad¹, P. Voland¹, C. Prinz¹, **M. Gerhard¹**;
¹Klinikum Rechts der Isar, Munich, Germany, ²Department of Biochemistry, MPI, Munich, Germany.
- 03.02. An important new determinant of *vacA* toxicity is prevalent among Chinese *Helicobacter pylori* strains.
J. L. Rhead¹, D. P. Letley¹, Y. Zhang², J. C. Atherton¹;
¹Institute of Infection, Immunity and Inflammation and the Wolfson Digestive Diseases Centre, Nottingham, United Kingdom, ²Division of Gastroenterology, The Affiliated Hospital of Jiangsu University, Jiangsu, China.
- 03.03. Influence of knockouts in *horB* (HP1421) and *virB11* (HP0127) on O-chain synthesis by lipopolysaccharide of *Helicobacter pylori*
A. P. Moran¹, W. J. Snelling², J. J. McGovern¹, P. W. O'Toole², H. Annuk¹;
¹Department of Microbiology, National University of Ireland, Galway, Galway, Ireland, ²Department of Microbiology and Alimentary Pharmabiotic Centre, University College Cork, Cork, Ireland.
- 03.04. Reciprocal regulation of NFAT transcription factors by the two major *Helicobacter pylori* virulence factors, CagA and VacA
M. Hatakeyama¹, K. Yokoyama¹, H. Higashi¹, S. Ishikawa¹, T. Azuma², T. Hirayama³, H. Aburatani⁴;
¹Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, ²Kobe University Graduate School of Medicine, Kobe, Japan, ³Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ⁴RCAST, University of Tokyo, Tokyo, Japan.
- 03.05. Evolution of the *Helicobacter pylori* *cag* pathogenicity island (Pal) by partial deletion in strains from relatives of gastric cancer patients.
R. H. Argent¹, R. J. Thomas¹, E. M. El-Omar², J. C. Atherton¹;
¹University of Nottingham, Nottingham, United Kingdom, ²University of Aberdeen, Aberdeen, United Kingdom.
- 03.06. Iron-repression of urease expression in *Helicobacter hepaticus* is mediated by the transcriptional regulator Fur
C. Belzer, B. A. M. van Schendel, E. J. Kuipers, J. G. Kusters, A. H. M. van Vliet;
Erasmus MC-University Medical Center, Department of Gastroenterology and Hepatology, Rotterdam, The Netherlands.
- 03.08. Evaluating proinflammatory and adherence properties of the *Helicobacter pylori* outer membrane protein 13 (Omp13)
A. Dossumbekova¹, W. Reindl¹, A. Sarryeva¹, S. Backert², J. Kusters³, **C. K. Prinz¹**, R. Rad¹;
¹II. Medical Department, Munich, Germany, ²Institute for Medical Microbiology, Magdeburg, Germany, ³Department of Gastroenterology, Rotterdam, The Netherlands.
- 10.00 – 10.30 hrs *Coffee Break*

Programme Friday, October 14

- 10.30 - 12.00 hrs** **Parallel Workshop 5. Genetics, immunology and vaccines** **Falconer Auditorium**
Chair: R. Ferrero, Australia & J. Wandall, Denmark
- 05.01. Complement-mediated phagocytosis of *Helicobacter pylori*-infected gastric epithelial cells: A novel mechanism for sensing luminal bacterial infection.
K. A. Ryan¹, A. T. Hawley², K. Ravichandran², P. B. Ernst²;
¹University College Cork, Cork, Ireland, ²University of Virginia, Charlottesville, VA, United States.
- 05.02. Influence of endotoxic activity of *Helicobacter pylori* lipopolysaccharide on physicochemical parameters
A. P. Moran¹, A. B. Schromm², J. Andrä², M. H. J. Koch³, U. Seydel², K. Brandenburg²;
¹Department of Microbiology, National University of Ireland, Galway, Galway, Ireland,
²Laborgruppe Biophysik, Forschungszentrum Borstel, D-23845 Borstel, Germany, ³European Molecular Biology Laboratory, c/o DESY, D-22603 Hamburg, Germany.
- 05.03. The secreted peptidylprolyl cis,trans-isomerase HP0175 of *Helicobacter pylori* induces vascular endothelial growth factor (VEGF) expression in gastric epithelial cells'
M. Kundu, P. Saha, S. K. Pathak;
Bose Institute, Calcutta, India.
- 05.04. Function and recruitment of mucosal regulatory T cells in human chronic *H. pylori*-infection and gastric adenocarcinoma.
K. Enarsson¹, A. Lundgren¹, M. Hermansson², A. Svennerholm¹, S. Lundin¹, M. Quiding-Järbrink¹;
¹Dept. Medical Microbiology and Immunology, Gothenburg, Sweden, ²Dept. surgery, Sahlgrenska university hospital, Gothenburg, Sweden.
- 05.05. *H. pylori*-induced gastritis and carditis, but not reflux-induced carditis, is associated with an infiltration of CD4⁺CD25⁺ regulatory T cells into the inflamed mucosa.
A. Kandulski¹, **T. Wex**¹, U. Peitz¹, A. Roessner², D. Küster², P. Malfertheiner¹;
¹Clinic of Gastroenterology, Hepatology and Infectious Diseases, Otto-von-Guericke University Magdeburg, Magdeburg, Germany, ²Institute of Pathology, Otto-von-Guericke University Magdeburg, Magdeburg, Germany.
- 02.01. HP0906 controls flagellar hook-filament transition in *Helicobacter pylori*
K. A. Ryan¹, N. Karim², M. Worku², C. W. Penn³, **P. W. O'Toole**¹;
¹University College Cork, Cork, Ireland, ²Imperial College School of Medicine, London, United Kingdom, ³University of Birmingham, Birmingham, United Kingdom.
- 02.02. The NikR protein mediates nickel-responsive regulation of the *Helicobacter pylori* iron-uptake genes *fecA3* and *frpB3*
F. D. Ernst, J. M. Horrevoets, E. J. Kuipers, J. Stoof, J. G. Kusters, A. H. M. van Vliet;
Department of Gastroenterology and Hepatology, Erasmus MC-University Medical Center, Rotterdam, The Netherlands.
- 14.01. CD4⁺ cells but not mast cells are critical players in immune responses leading to the eradication of gastric *Helicobacter* infection in the IL-10^{-/-} mice
D. Velin, D. Bachmann, **P. Michetti**;
CHUV, Lausanne, Switzerland.
- 12.00 – 12.30 hrs *Lunch break*

Programme Friday, October 14

- 10.30 - 12.00 hrs** **Parallel Workshop 6. Extragastric manifestations and new *Helicobacters*** **Room 102-103**
- Chair: J. Fox, United States & T. Fujioka, Japan
- 15.01. Identification of *Helicobacter* spp. by multiple PCR-DGGE analysis of the 16S rDNA
W. Abu Al-Soud, M. Al-Jammal, Å. Ljungh, T. Wadström;
Lund University, Lund, Sweden.
- 15.02. PerR is a regulator of oxidative stress defense in *Helicobacter hepaticus*
C. Belzer¹, B. A. M. van Schendel¹, E. J. Kuipers¹, T. Hoogenboezem², P. W. M. Hermans²,
J. G. Kusters¹, A. H. M. van Vliet¹;
¹*Erasmus MC-University Medical Center, Department of Gastroenterology and Hepatology, Rotterdam, The Netherlands,* ²*Erasmus MC-University Medical Center, Department of Pediatrics, Rotterdam, The Netherlands.*
- 15.03. Detection of Enterohepatic *Helicobacter* Species and *Wolinella succinogenes* in Biopsy Specimens from Children with Inflammatory Bowel Disease (IBD) and Irritable Bowel Syndrome (IBS).
H. M. Mitchell¹, L. Zhang¹, A. Day², G. McKenzie³;
¹*School of Microbiology & Immunology, University of New South Wales, Sydney, Australia,* ²*School of Women's and Children's Health, The University of New South Wales, Sydney, Australia,* ³*School of Medical Sciences, University of New South Wales, Sydney, Australia.*
- 15.05. Detection of *Helicobacter* species in archival human UC colorectal tissue by fluorescent *in-situ* hybridisation (FISH)
I. A. M. Cooper¹, G. L. Hold¹, M. G. Smith¹, B. Vijayan², N. Fyfe³, Z. Shen⁴, J. G. Fox⁴, E. M. El-Omar¹;
¹*GI research group, Department of Medicine & Therapeutics, University of Aberdeen, Aberdeen, United Kingdom,* ²*GI unit, Aberdeen Royal Infirmary, Aberdeen, United Kingdom,* ³*Department of Pathology, University of Aberdeen, Aberdeen, United Kingdom,* ⁴*Division of Comparative Medicine, Massachusetts Institute of Technology, Cambridge, MA, United States.*
- 08.01. Gastroesophageal reflux and *Helicobacter pylori*: a population-based study
O. V. Reshetnikov¹, S. A. Kurilovich¹, E. D. Pylenkova¹, V. A. Krotova², S. A. Krotov²;
¹*Institute of Internal Medicine, Novosibirsk, Russian Federation,* ²*Vector-Best, Novosibirsk, Russian Federation.*
- 08.02. *H. pylori* Cag-A positive strains are associated with microalbuminuria in type 2 diabetes
A. Pietrojusti¹, M. Giuliano², A. Magrini³, A. Bergamaschi⁴, A. Galante¹;
¹*Tor Vergata University/Department of Internal Medicine, Rome, Italy,* ²*Ospedale S. Eugenio/UO Diabetologia, Rome, Italy,* ³*Tor Vergata University/Cattedra Medicina del Lavoro, Rome, Italy,* ⁴*Tor Vergata University/Cattedra di Medicina del Lavoro, Rome, Italy.*
- 16.06. Serological analysis of *Helicobacter hepaticus* infection in patients with chronic viral hepatitis using new monoclonal antibodies
T. Shimoyama¹, Y. Fukuda², T. Ohmura³, Y. Sano-Matsuura³, R. Takahashi³, S. Fukuda¹;
¹*Hirosaki University, Hirosaki, Japan,* ²*Hyogo College of Medicine, Nishinomiya, Japan,* ³*Wakamoto Pharmaceutical Co., Ltd., Minami-Ashigara, Japan.*
- 16.01. Biliary lipid compositions in cholesterol gallstone-prone C57L mice infected with certain cholelithogenic enterohepatic *Helicobacter* spp. suggest pro-nucleating organisms
K. J. Maurer¹, M. R. Leonard², J. G. Fox¹, M. C. Carey²;
¹*Massachusetts Institute of Technology, Cambridge, MA, United States,* ²*Harvard Medical School, Brigham and Womens Hospital, Boston, MA, United States.*
- 12.00 – 12.30 hrs *Lunch break*

Programme Friday, October 14

12.30 - 14.00 hrs	Poster Sessions 4 – 6	Falconer Hall
Poster Session 4 Topics:	Chair: T. Hirayama, Japan & L.P. Andersen, Denmark 01. Microbiology 03. Virulence factors and pathogenesis	
Poster Session 5 Topics:	Chair: V. Mahachai, Thailand & A. Munk Petersen, Denmark 11. Clinical trials and novel treatments 12. NSAIDs, COXIBs, ASA and <i>H. pylori</i> infection 13. Drug resistance	
Poster Session 6 Topics:	Chair: C. Prinz, Germany & P. Michetti, Switzerland 02. Molecular genetics and genomics 05. Inflammation and host response	
14.00 - 15.30	Plenary session: "Impact of <i>H. pylori</i> infection on thrombocyte, erythrocyte and lymphocyte"	Falconer Auditorium
Chair:	L.G.V. Coelho, Brazil & G. Gasbarrini, Italy <i>H. pylori</i> and iron deficiency anemia <i>B. Annibale, Roma, Italy</i> <i>H. pylori</i> , B12 vitamin deficiency and anemia <i>M. Härkönen, Espoo, Finland</i> <i>H. pylori</i> infection and Idiopathic Thrombocytopenic Purpura <i>G. Torelli, Modena, Italy</i> <i>H. pylori</i> and the lymphocytes: response and independence <i>C. Prinz, Munich, Germany</i>	
15.30 - 16.00	<i>Coffee Break</i>	
16.00 - 16.45	Debate: "Evaluation of <i>H. pylori</i> Infection"	Falconer Auditorium
Chair:	B. Marshall, Australia & A. Axon, United Kingdom Importance of bacterial virulence factors <i>J. Atherton, Nottingham, UK</i> Importance of host genetics <i>E. El Omar, Aberdeen, UK</i> Closing Lecture Bacteria and mucosal inflammation of the gut; lessons from <i>H. pylori</i> <i>E. Kuipers, Amsterdam, The Netherlands</i>	
16.45 - 17.00	Establishing of B. Marshall as Honorary Member of the EHS Presentation of EHS 2006 and Closing Remarks	Falconer Auditorium

Scientific Information, Poster Schedule

Oral Presentations

Speaking Time

The chairpersons of your session will be strict in allowing no more than the time allotted to your paper. Remember to allow some time for the changeover of speakers and chairperson's introduction, and for questions and discussion. Make yourself known to the chairpersons and/or the room assistant in your session room before the beginning of the session.

Projection and Technical Setting

All rooms are equipped with a (Windows) PC and data projector for Power Point presentation only (no slides).

Handing in Your Presentation:

You can review your presentation at the speaker's service centre. It must then be handed over to the room assistant at least 1 hour before your talk either via USB-Memory Stick or CD-Rom.

Presentation Format - Technical Issues:

The lecture rooms are exclusively equipped with Windows-PCs (no Macintosh machines).

Please bring a CD-ROM, or floppy disk, formatted for Windows® (PC). You may want to carry a second disk or a USB-memory stick as a back-up in case there is any technical problem.

File Format: Microsoft® Power Point™ presentation formatted for Windows® (PC) only. (Operating system: Windows XP®).

Maximum Resolution: XGA (1024 x 768 pixel)

Poster Presentations

Posters are on display for the whole conference.

Poster Sessions are scheduled for the following days and topics:

Poster Sessions 1 – 3, Thursday, October 13, 13.00 – 14.30 hrs

- | | |
|------------------|---|
| Poster Session 1 | 04. Epidemiology and transmission
09. Paediatric issues
10. Diagnosis |
| Poster Session 2 | 06. Pathology and pathophysiology
07. Preneoplastic and neoplastic diseases |
| Poster Session 3 | 08. Oesophageal and extradiigestive diseases
15. Other Helicobacters
16. Hepatobiliary Diseases |

Poster Sessions 4 – 6, Friday, October 14, 12.30 - 14.00 hrs

- | | |
|------------------|---|
| Poster Session 4 | 01. Microbiology
03. Virulence factors and pathogenesis |
| Poster Session 5 | 11. Clinical trials and novel treatments
12. NSAIDs, COXIBs, ASA and <i>H. pylori</i> infection
13. Drug resistance |
| Poster Session 6 | 02. Molecular genetics and genomics
05. Inflammation and host response
14. Immunity, animal models and vaccines |

Mounting of the poster is possible on **Thursday, October 13, 2005 from 8.00 – 9.00 hrs**

Removal on **Friday, October 14, 2005, from 16.30 – 17.30 hrs.**

You will find your poster board number in the author index of the abstract book, which you have received at the registration desk.

Format

The usable surface on the poster board is 90 cm width x 150 cm height (approx. 35 x 59 inches – portrait format). Pins will be made available.

Please note that the organisers cannot assume any liability for loss, theft or damage of posters displayed in the poster area. Posters which were not removed in time, will be removed by staff members and will not be kept or sent to the author after the meeting.

General Information

In alphabetical order.

Bank Opening hours

Banks are open from 10.00 to 16.00 on weekdays, and to 17.30 on Thursdays. Bank offices at major airports and railway stations may open longer.

Cash Dispensers

Cash dispensers accepting international credit cards are to be found outside banks and in shopping precincts.

CME Credits

The CME Committee of the U.E.M.S has certified the XVIII International Workshop of the EHSg with 12 credits.

Congress Venue

Radisson SAS Falconer Hotel & Conference Centre, Falkoner Allé 9, DK-2000 Frederiksberg, Denmark
Metro station Frederiksberg. Both metro lines are going to Frederiksberg. From the city centre please go direction Vanløse.

Bus no 14 (departing from the city hall and Vesterport St) stops at Frederiksberg Rådhus / Frederiksberg City Hall, from here there is 2 min walk to the Falconer centre. Direction Jydeholmen/Ålekistevej

Bus no 15 (departing from the central Station and Vesterport St) stops at Frederiksberg Rådhus / Frederiksberg City Hall, from here there is 2 min walk to the Falconer centre. Direction Alholm Plads or Herlev St.

Currency

The currency in Denmark is the Danish Crown. Exchange rates as per date of printing are approximately: 10 DKK = 1,34 EUR; 10 DKK = 1,64 USD; 10 DKK = 0,90 GBP; 10 DKK = 2,08 CHF; 10 DKK = 180,30 JPY

Eating Out in Copenhagen

Copenhagen offers a good choice of food, with Danish, international and an increasingly wide choice of ethnic restaurants. Many restaurants serve a special, reasonably priced lunch menu. Open sandwiches (smørrebrød) are a Danish specialty and very tasty and substantial. For a quick snack, try a hot dog from a roadside stall. Last but not least, sample the world-famous Danish pastries and other examples of the baker's art.

Electricity Supply

220-240 V - 50Hz AC. Sockets have European standard.

Emergencies

Fire, police, ambulance and other emergency services can be reached by calling 112 from any telephone - no coins needed. Medical and dental emergency services are available in all main towns, and medicines can be obtained from night service chemists.

Internet

A wireless internet connection will be available in the conference centre. The adjacent SAS Falconer hotel has a business centre with internet access in the lobby.

Language

The official language of the congress is English (no simultaneous translation).

Liability

In registering for the EHSg 2005 participants agree that neither the organising committee nor the congress office assume any liability whatsoever. Participants are requested to make their own arrangements in respect of health and travel.

Further the organisers cannot assume any liability for changes in the programme due to external or unforeseen circumstances and force majeure.

Lunch Boxes

Lunch boxes could only be ordered in advance, unfortunately they cannot be purchased on site. They will be handed out in the coffee/poster area.

Message Centre

A Message Centre is available in the Registration Area.

General Information

Opening hours of the registration desk

Wednesday, October 12	14.00 – 18.00 hrs
Thursday, October 13	07.45 – 19.00 hrs
Friday, October 14	08.00 – 17.00 hrs

Poster Removal

The organisers cannot assume any liability for loss, theft or damage of posters displayed in the poster area. Posters that are not removed in time will be removed by the staff and will not be kept or sent to the author after the meeting. **Please make sure to remove your poster in time.**

Public Transportation in Copenhagen

Tickets can be bought from the driver on buses. At many kiosks and at the S-TOG stations you can buy cheaper ticket coupons (the blue 2-zones tickets for local travels, the yellow 3-zones tickets for venturing outside of town). Tickets last at least one hour from the time they are stamped and you can change as many buses/S-TOGs as you like. However tickets have different prices (and duration) depending on the distance of your final destination. Inside the city you will usually need a “2 zoner” (DKK 15, coupons for 10 trips DKK 95) but for example from the airport to Trianglen you need a “3 zoner” (DKK 22,50, coupons for 10 trips DK 130) ticket.

Shops

Normal shopping hours are from 09.30 or 10.00 to 17.30 or 18.00 (on Fridays until 19.00 or 19.30), but a few shops, supermarkets and larger shopping centres are open one or two hours longer. Small shops close at 14.00 on Saturdays. Most large shops, supermarkets and shopping malls are increasingly open until 17.00 every Saturday.

Taxis

A taxi from the airport to Copenhagen City centre will take approximately 30-45 minutes and cost about 35-40 EUR. In the city centre, taxis are easy to stop in the street and taxi services are generally very reliable. The Congress Staff will be happy to assist you with taxi service at the Copenhagen congress centre or in the airport. If paying by credit card, please inform the driver at the begin or the ride, some machines may take some time for approval of foreign cards.

Tipping

Although a service charge is often included in hotel, restaurant and taxi bills, it is customary to pay a little for good service. Tipping is otherwise not usual unless a special service has been provided.

Tourist Information

For tourist information about Copenhagen please contact the official congress travel agency desk (Kuoni).

Copenhagen

Copenhagen is a lively, modern city with many cultural events and a broad range of options for dining out, enjoying local and international food as well the famous Danish beer. Copenhagen today is a beautiful place for experiencing everything from small, elegant design shops to big department stores, from very popular cafés to international restaurants and from small theatres to amazing concert and opera halls. There are countless historical buildings in Copenhagen’s old city streets, and a number of castles have remained intact here for centuries. In the midst of this blend of Medieval buildings and modern shops you will find several green and peaceful oases. The city is known for its many historical and contemporary sights and attractions, including The Little Mermaid, Tivoli, The Royal Theatre, Statens Museum for Kunst, Rosenborg Castle, Ny Carlsberg Glyptotek, Christiania, The Black Diamond library, the Arken art gallery and the Louisiana art museum.

Registration Details

Registration Fees

Payment received	Before July 31, 2005	After July 31, 2005
Regular Participants	EUR 400.–	EUR 500.–
Young Scientists (<35 years)	EUR 210.–	EUR 275.–
Students (< 30 years)	EUR 100. –	EUR 100. –
Company Representatives	EUR 600.–	EUR 800.–
Accompanying Persons	EUR 40.–	EUR 60.–

Payment of Registration fees may be made either cash in Danish Crowns or Euro or by Credit Card (Diners Club, Mastercard and Visa (Amex cards cannot be accepted)).

Please note

The reduced registration fee was only applicable, **if it has been credited to the congress account before the deadline**. Registering before July 31, 2005 without performing an actual payment was not sufficient to benefit from the reduction.

What is covered by the registration fee?

Participants

- Admission to all scientific sessions and the exhibition
- Admission to the opening and the welcome reception
- Abstract book and programme
- Refreshments during coffee breaks

Accompanying Persons

- Admission to the opening and the welcome reception
- Admission to the exhibition area (no admission to the lectures)

Cancellations

Notice of cancellation must have been made in writing by registered letter or fax to the Congress Office. The date of the postmark or fax ID was the basis for considering refunds.

Registration fees may be refunded after the workshop as follows:

- Cancellation received before September 10, 2005: 75% refund
- after September 10, 2005: no refund

Opening hours of the registration desk

Wednesday, October 12	14.00 – 18.00 hrs
Thursday, October 13	07.45 – 19.00 hrs
Friday, October 14	08.00 – 17.00 hrs

Social Events

Wednesday, October 12, 2005, 17.30-19.00 hrs

Opening reception (dinner) at the Town Hall of Copenhagen

Rådhuspladsen (Town Hall Square), 1599 Copenhagen V

Free for registered participants and accompanying persons, however registration for this event is mandatory.

Optional Social Programme

Please note that all proposed tours had to be cancelled as they did not reach the minimum number of required participants. The staff at the Kuoni desk will help you to sign up for tours organised by “Copenhagen Sightseeing”.

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