XXXVth Workshop of the European Helicobacter & Microbiota Study Group

EHMSG Postgraduate Course
“The Microbiome Meets the Clinic: Turning Understanding into New Treatments”

September 8 - 10, 2022 | Glasgow, United Kingdom

Final Programme
www.workshop.ehmsg.org
XXXVth Workshop of the European Helicobacter & Microbiota Study Group

EHMSG Postgraduate Course

“The Microbiome Meets the Clinic: Turning Understanding into New Treatments”

September 8 - 10, 2022 | Glasgow, United Kingdom
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AWARDEES OF THE MARSHALL AND WARREN MEDAL

2022  Massimo Rugge, Padova, Italy
2021  Dulciene Queiroz, Belo Horizonte, Brazil
2020  Hazel Mitchell, Sydney, Australia
2019  Guillermo Perez-Perez, New York, NY, United States
2018  Kenneth McColl, Glasgow, United Kingdom
2017  Jean-Charles Delchier, France
2016  Ken Sugano, Shimotsuke, Japan
2015  Heidi-Ingrid Maaros, Tartu, Estonia
2014  Manfred Kist, Freiburg, Germany
2013  Masahiro Asaka, Sapporo, Japan
2012  Richard Hunt, Hamilton, ON, Canada
2011  Samy Cadranel, Brussels, Belgium
2010  Reinhold W. Stockbrügger, Maastricht, The Netherlands
2009  Pelayo Correa, Nashville, TN, United States
2008  Timo Kosunen, Helsinki, Finland
2007  Mike Dixon, Leeds, United Kingdom
2006  Barry Marshall, Perth, Australia & Stanislav Konturek, Cracow, Poland

NEXT EHMSG WORKSHOP         Antwerp, Belgium | September 7 - 9, 2023
Welcoming address by the President of the European Helicobacter and Microbiota Study Group
Prof. Dr. Georgina Hold

Dear Colleagues,

It has been 27 years since our group held its annual meeting in the UK, so it is my great pleasure, on behalf of the European Helicobacter and Microbiota Study Group (EHMSG), to welcome you to Glasgow for the 2022 Conference on September 8th – 10th.

Glasgow is Scotland’s largest city and is renowned for its culture, style and the friendliness of its people. Glasgow offers a blend of internationally acclaimed museums and galleries, stunning architecture, vibrant nightlife, fantastic shopping and a diverse selection of restaurants and bars.

Vibrant and energetic, Glasgow enjoys a yearround buzz with an arts scene that regularly produces cutting-edge productions and attracts high profile exhibitions that led to the city being crowned European City of Culture in 1990.

Glasgow is also notable for its great scientists. It was a Glaswegian Charles Macintosh who patented the invention for waterproof cloth in 1823, with the first Mackintosh coats made in the family textile factory, Charles Macintosh and Co. of Glasgow. Hopefully you won’t need yours in September!

Other great Glaswegians include Joseph Lister, pioneer of antiseptic surgery and James Watt, the great engineer that the “Watt” was named after, who started the industrial revolution, highlighting that Glasgow knows how to innovate.

The EHMSG 2022 meeting promises to be scientifically inspiring, providing the latest developments from the Helicobacter and Microbiota field.

I look forward to seeing you in Glasgow soon!

Ceud Mìle Fàilte

Georgina Hold
President of the European Helicobacter and Microbiota Study Group
European Helicobacter & Microbiota Study Group EHMSG

President of the EHMSG
Georgina Hold, Australia

Members and International Scientific Committee
Leif P. Andersen, Denmark
Lars Engstrand, Sweden
Antonio Gasbarrini, Italy
Javier P. Gisbert, Spain
Josbert Keller, The Netherlands
Marcis Leja, Latvia
José C. Machado, Portugal
Peter Malfertheiner, Germany
Francis Mégraud, France
Colm A. O’Morain, Ireland
Mirjana Rajilić-Stojanović, Serbia
Ari P. Ristimäki, Finland
Theodore Rokkas, Greece
Annemieke Smet, Belgium
Herbert Tilg, Austria

Emeritus Members
Anthony Axon, United Kingdom
Michel A. L. Deltenre, Belgium (†)
Giovanni Gasbarrini, Italy
Alexander M. Hirsch, Austria
Pierre Michetti, Switzerland
José M. Pajares Garcia, Spain
Ashley B. Price, United Kingdom
Mario G. Quina, Portugal (†)
Erik A. J. Rauws, The Netherlands
Pentti I. Sipponen, Finland
Torkel M. Wadström, Sweden

Honorary Members
Franco Bazzoli, Italy
James G. Fox, United States
David Y. Graham, United States
Ernst Kuipers, The Netherlands
Adrian Lee, Australia
Barry Marshall, Australia
Guido N. J. Tytgat, The Netherlands

Local Committee

President
Georgina Hold, Australia

Members
Anthony Axon, Leeds, UK
Francesco Boccellato, Oxford, UK
Jan Bornschein, Oxford, UK
Gauri Godbole, London, UK
Richard Hansen, Glasgow, UK
Pali Hungin, Newcastle, UK
Kenneth McColl, Glasgow, UK
Mark Pritchard, Liverpool, UK
Karen Robinson, Nottingham, UK

Corresponding Fellows
Niyaz Ahmed, India
Dmitry Bordin, Russia
Luis G. Vaz Coelho, Brazil
Jae Gyu Kim, Korea
Varocho Mahachai, Thailand
Yaron Niv, Israel
Oleg Shvets, Ukraine
Chun-Ying Wu, Taiwan
Yoshio Yamaoka, Japan
Weicheng You, China

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Ernst Kuipers, The Netherlands
Adrian Lee, Australia
Barry Marshall, Australia
Guido N. J. Tytgat, The Netherlands

Workshops of the EHMSG

- Bordeaux (1988)
- Ulm (1989)
- Toledo (1990)
- Bologna (1991)
- Dublin (1992)
- Brussels (1993)
- Houston (1994)
- Copenhagen (1996)
- Lisbon (1997)
- Budapest (1998)
- Helsinki (1999)
- Rome (2000)
- Strasbourg (2001)
- Athens (2002)
- Vienna (2004)
- Copenhagen (2005)
- Wroclaw (2006)
- Istanbul (2007)
- Riga (2008)
- Porto (2009)
- Rotterdam (2010)
- Dublin (2011)
- Ljubljana (2012)
- Madrid (2013)
- Rome (2014)
- Nicosia (2015)
- Magdeburg (2016)
- Bordeaux (2017)
- Kaunas (2018)
- Innsbruck (2019)
- Virtual Edition (2020)
- Virtual Edition (2021)
- Glasgow (2022)

Organizing Office

Scientific and Administrative Secretariat
WMA GmbH
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A-1090 Vienna, Austria
Phone: +43 1 405 13 83 18
Fax: +43 1 405 13 83 918
Email: workshop@ehmsg.org
XXXVIth Workshop of the European Helicobacter & Microbiota Study Group

September 7 - 9, 2023 | Antwerp, Belgium

Local Organising Committee

President EHMSG 2023: Annemieke Smet, Antwerp, Belgium

Benedicte De Winter, Antwerp, Belgium | Sven Francque, Antwerp, Belgium
Heiko De Schepper, Antwerp, Belgium | Sarah Lebeer, Antwerp, Belgium
Nele Brusselaers, Antwerp, Belgium | Lukas Van Oudenhove, Leuven, Belgium
Véronique Yvette Miendje Deyi, Brussels, Belgium

www.workshop.ehmsg.org
## PROGRAMME AT A GLANCE

### Thursday, September 8, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>08.30 - 18.00 hrs</td>
<td>EHMSG Postgraduate Course “The Microbiome Meets the Clinic: Turning Understanding into New Treatments”</td>
<td>Room M1</td>
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<tr>
<td>19.00 - 20.30 hrs</td>
<td>Networking Event</td>
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<tr>
<td></td>
<td>Welcome Reception hosted by the Lord Provost of Glasgow at the Glasgow City Chambers</td>
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### Friday, September 9, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>08.30 – 19.15 hrs</td>
<td>EHMSG 2022 Conference</td>
<td>Hall 1</td>
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<tr>
<td>08.25 – 08.30 hrs</td>
<td>Welcome by EHMSG President Georgina Hold</td>
<td>Hall 1</td>
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<tr>
<td>08.30 – 09.30 hrs</td>
<td>Session 1 - Introductory Lectures</td>
<td>Hall 1</td>
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<tr>
<td>09.30 – 11.00 hrs</td>
<td>Session 2 - Maastricht VI</td>
<td>Hall 1</td>
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<tr>
<td>11.00 - 11.30 hrs</td>
<td>Coffee Break</td>
<td>Hall 2</td>
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<tr>
<td>11.30 – 13.00 hrs</td>
<td>Session 3 - Gastric carcinogenesis</td>
<td>Hall 1</td>
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<tr>
<td>13.00 – 14.00 hrs</td>
<td>Lunch Break &amp; Poster Viewing</td>
<td>Hall 2</td>
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<tr>
<td>14.00 – 15.40 hrs</td>
<td>Session 4 - Microbiota</td>
<td>Hall 1</td>
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<tr>
<td>15.45 – 17.15 hrs</td>
<td>Session 5 - Parallel Workshops from Submitted Abstracts W1 Microbiota in Health and Disease</td>
<td>Hall 1</td>
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<tr>
<td>15.45 – 17.15 hrs</td>
<td>Session 6 - Parallel Workshops from Submitted Abstracts W2 Diagnosis, Epidemiology, Extragastric Disease</td>
<td>Room M1</td>
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<tr>
<td>17.15 – 17.45 hrs</td>
<td>Coffee Break</td>
<td>Hall 2</td>
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<tr>
<td>17.45 – 19.15 hrs</td>
<td>Session 7 - Parallel Workshops from Submitted Abstracts W3 Pathogenesis of Helicobacter pylori</td>
<td>Hall 1</td>
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<tr>
<td>17.45 – 19.15 hrs</td>
<td>Session 8 - Parallel Workshops from Submitted Abstracts W4 Treatment of Helicobacter pylori</td>
<td>Room M1</td>
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<tr>
<td>20.00 hrs</td>
<td>Networking Dinner</td>
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<td></td>
<td>Conference Dinner at the Óran Mór</td>
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<tr>
<td>Time</td>
<td>Session/Activity</td>
<td>Location</td>
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<tr>
<td>08.00 – 09.30 hrs</td>
<td>Session 9 - Fecal Microbiota Transplantation (FMT)</td>
<td>Hall 1</td>
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<td>09.30 – 10.00 hrs</td>
<td>Coffee Break</td>
<td>Hall 2 -Exhibition &amp; Poster Area</td>
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<tr>
<td>10.00 – 11.20 hrs</td>
<td>Session 10 - <em>H. pylori</em> diagnosis &amp; treatment</td>
<td>Hall 1</td>
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<tr>
<td>11.20 - 12.20 hrs</td>
<td>Session 11 - Industry-Sponsored Satellite Symposium</td>
<td>Hall 1</td>
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<tr>
<td>12.20 – 13.20 hrs</td>
<td>Lunch Break &amp; Poster Viewing</td>
<td>Hall 2 -Exhibition &amp; Poster Area</td>
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<tr>
<td>13.20 – 14.50 hrs</td>
<td>Parallel Workshops from Submitted Abstracts W5</td>
<td>Hall 1</td>
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<tr>
<td>13.20 – 14.50 hrs</td>
<td>Parallel Workshops from Submitted Abstracts W6</td>
<td>Room M1</td>
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<tr>
<td>14.50 – 15.20 hrs</td>
<td>Coffee Break</td>
<td>Hall 2 -Exhibition &amp; Poster Area</td>
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<tr>
<td>15.20 – 16.20 hrs</td>
<td>Session 14 - Potassium Competitive Acid Blockers (P-CABs)</td>
<td>Hall 1</td>
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<tr>
<td>16.20 – 17.00 hrs</td>
<td>Session 15 - State of the Art lectures: Looking to the future</td>
<td>Hall 1</td>
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<tr>
<td>17.00 – 18.10 hrs</td>
<td>Session 16 - Closing Session</td>
<td>Hall 1</td>
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*EHMSG 2022 Conference*
EHMSG Postgraduate Course

“The Microbiome Meets the Clinic: Turning Understanding into New Treatments”

Course directors: Georgina Hold, Richard Hansen, Jan Bornschein

Room M1

08.30 – 10.10 hrs Session I: Opening - Gut Microbiota Utility in Health Care
Chair: Richard Hansen, Glasgow, United Kingdom + Francesco Boccellato, Oxford, United Kingdom

08.30 – 08.40
01.01. Course Introduction and Welcome
Georgina Hold, Sydney, Australia

08.40 – 09.10
01.02. The Gut Microbiome and Medicine
Siew Chien Ng, Hong Kong Virtual Talk - Live Q&A

09.10 – 09.40
01.03. Pancreatic Cancer Diagnostics
Núria Malats, Madrid, Spain

09.40 – 10.10
01.04. The microbiome and cancer immunotherapy
Dominique Velin, Epalinges, Switzerland

10.10 – 10.30 hrs Coffee Break

10.30 – 12.00 hrs Session II: Profiling the gut microbiota for the clinic
Chair: Georgina Hold, Sydney, Australia + Mark Pritchard, Liverpool, United Kingdom

10.30 – 11.00
02.01. Million Microbes Project
Lars Engstrand, Stockholm, Sweden

11.00 – 11.30
02.02. Genomics in the clinic
Morgan Langille, Halifax, Nova Scotia, Canada

11.30 – 12.00
02.03. Linking the clues – multi-omics and machine learning
Francesco Asnicar, Trento, Italy

12.00 – 13.15 hrs Lunch Break

13.15 – 14.15 hrs Session III: Is the microbiome relevant in every day practice?
Open Discussion
Chair: Karen Robinson, Nottingham, United Kingdom + Jan Bornschein, Oxford, United Kingdom

03.01. Presenter of the case
Pali Hungin, Newcastle, United Kingdom

Panelists:
03.02. Timothy Hardy, Middlesbrough, United Kingdom
03.03. Tanya Monaghan, Nottingham, United Kingdom
03.04. James McIlroy, Glasgow, United Kingdom

14.15 – 15.35 hrs Session IV: Microbiome as an adjunct to therapy
Chair: Kenneth McColl, Glasgow, United Kingdom + Gauri Godbole, London, United Kingdom

14.15 – 14.40
04.01. The Prebiotic Story
Lindsay Hall, Norwich, United Kingdom

14.40 – 15.05
04.02. Next generation probiotics
Alan Walker, Aberdeen, United Kingdom
15.05 – 15.35  
04.03. Microbial culture - Kochs postulates to durable therapeutics  
Jeremiah Faith, New York, NY, USA

15.35 – 16.00 hrs  
Coffee Break

16.00 – 17.20 hrs  
Session V: Standardisation of Clinical Microbiome Reporting  
Chair: Anthony Axon, Leeds, United Kingdom + Richard Hansen, Glasgow, United Kingdom

16.00 – 16.20  
05.01. Telling them what they need to know – Scientist perspective  
Julian Marchesi, London, United Kingdom

16.20 – 16.40  
05.02. Microbiome is the final answer (treatment and clinical outcomes)  
Juozas Kupcinskas, Kaunas, Lithuania

16.40 – 17.00  
05.03. Microbiome testing and reporting is not ready for mainstream clinical practice  
Gauri Godbole, London, United Kingdom

17.00 – 17.20  
Panel discussion on future directions

17.20 – 18.00 hrs  
Session VI: State-of-the-Art Lecture  
Chair: Georgina Hold, Sydney, Australia

06.01. Next generation metabolomics is enhancing the connections of diet and health, redefining the bile acid metabolic network and biomarker discovery  
Virtual Talk - Live Q&A  
Pieter C. Dorrestein, La Jolla, CA, USA

19.00 - 20.30 hrs  
EHMSG 2022 Welcome Reception
<table>
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<tr>
<th>Time</th>
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<tr>
<td>08.25 – 08.30 hrs</td>
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<td><strong>Session 01: Introductory Lectures</strong></td>
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<tr>
<td>08.30 - 09.00</td>
<td>01.01 Role of <em>H. pylori</em> at the gastro-esophageal junction</td>
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<td>09.00 - 09.30</td>
<td>01.02 Dialogue between <em>H. pylori</em> and the gut microbiota</td>
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<tr>
<td>09.30 – 11.00 hrs</td>
<td><strong>Session 02: Maastricht VI</strong></td>
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<td>09.30 – 09.42</td>
<td>02.01 The consensus concept</td>
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<tr>
<td>09.42 – 09.54</td>
<td>02.02 <em>H. pylori</em> infection in gastroduodenal and extragastric diseases</td>
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<td>09.54 – 10.06</td>
<td>02.03 New Demands in <em>H. pylori</em> diagnosis</td>
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<td>10.06 – 10.18</td>
<td>02.04 Therapy of <em>H. pylori</em> infection in evolution</td>
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<td>10.18 – 10.30</td>
<td>02.05 <em>H. pylori</em> screening in the prevention medicine</td>
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<tr>
<td>10.30 – 10.42</td>
<td>02.06 <em>H. pylori</em> in the relationship with other gastric microbiota</td>
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<tr>
<td>10.42 – 10.54</td>
<td>02.07 <em>H. pylori</em> treatment and the impact on gut microbiota</td>
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<tr>
<td>11.00 – 11.30 hrs</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11.30 – 13.00 hrs</td>
<td><strong>Session 03: Gastric Carcinogenesis</strong></td>
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<tr>
<td>11.30 – 11.50</td>
<td>03.01 The human stomach epithelial homeostasis recapitulated in-vitro by using mucosoid cultures</td>
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<tr>
<td>11.50 – 12.10</td>
<td>03.02 Utility of preclinical models to understand carcinogenesis</td>
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<tr>
<td>12.10 – 12.30</td>
<td>03.03 Autophagy is necessary for gastric cancer stem cell emergence</td>
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<tr>
<td>12.30 – 12.50</td>
<td>03.04 Autoimmune atrophic gastritis and gastric cancer</td>
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<tr>
<td>13.00 – 14.00 hrs</td>
<td><strong>Lunch Break</strong> Poster Viewing</td>
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<tr>
<td>14.00 – 15.40 hrs</td>
<td><strong>Session 04: Microbiota</strong></td>
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<tr>
<td>14.00 – 14.20</td>
<td>04.01 Gastric microbiota transplantation recapitulates premalignant lesions in germ-free mice</td>
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</tbody>
</table>
04.02 Establishment of gut microbiota in humans  
Hakdong Shin, Seoul, Korea  
Virtual Talk - Live Q&A

04.03 Use of registers in microbiota research  
Nele Brusselaers, Stockholm, Sweden

04.04 Bidirectional crosstalk between mucins and the microbiota at the level of the GI epithelium  
Anнемieke Smet, Antwerp, Belgium

04.05 New microbiota therapeutics  
Harry Sokol, Paris, France

15.45 – 17.15 hrs  
Session 05: Parallel Workshops from Submitted Abstracts W1  
Microbiota in Health and Disease  
Chair: Georgina Hold, Sydney, Australia & Antonio Gasbarrini, Rome, Italy

15.45 – 16.00  
05.01. Aging and shared household are the main determinant of the gut microbial similarity in twins  
Alexander Link, Magdeburg, Germany

16.00 – 16.15  
05.02. Whole Metagenome Shotgun Sequencing as a Next-Generation Sequencing Approach to Characterize the Taxonomy and Functional Risk Factors of the Gastric Microbiome  
Anthony Mannion, Cambridge, United States

16.15 – 16.30  
05.03. Implementation of a metatranscriptomics strategy for functional profiling of the gastric cancer microbiome  
Rui Ferreira, Porto, Portugal

16.30 – 16.45  
05.04. Relationships of the gut microbiome with cognitive development among healthy school age Children  
Khitam Muhsen, Tel Aviv, Israel

16.45 – 17.00  
05.05. Association of stomach microbiome with prognosis of gastric cancer patients  
Konrad Lehr, Magdeburg, Germany

17.00 – 17.15  
06.05. Microbiome signature of metabolically healthy obese individuals according to anthropometric, metabolic and inflammatory parameters  
Nam-Eun Kim, Seoungnam-si, Republic of Korea

15.45 – 17.15 hrs  
Session 06 - Parallel Workshops from Submitted Abstracts W2  
Diagnosis, Epidemiology, Extragastric Disease  
Room M1  
Chair: Leif Andersen, Copenhagen, Denmark & Francis Mégraud, Bordeaux, France

15.45 – 16.00  
06.01. Helicobacter pylori outer membrane vesicles alter astrocyte and neuronal function in vitro and in Vivo  
Manuel Valenzuela-Valderrama, Santiago, Chile  
Virtual Talk - no live Q&A

16.00 – 16.15  
06.02. Neurotoxic properties of Helicobacter pylori urease: a possible link to Alzheimer’s Disease?  
Celia Carlini, Porto Alegre, Brazil

16.15 – 16.30  
06.03. Helicobacter pylori diagnostic tests used in 35,000 patients in Europe: results from the European Registry on H. pylori Management (Hp-EuReg)  
Laimas Jonaitis, Kaunas, Lithuania
Riccardo Vasapolli, Munich, Germany

16.45 – 17.00 06.05. Prevalence of and risk factors for familial *Helicobacter pylori* infection in China: a nationwide family-based cross-sectional study
Xianzhu Zhou, Shanghai, China  Virtual Talk - no live Q&A

17.00 – 17.15 06.06. High incidence of resistance to antibiotics used for eradication of *Helicobacter pylori* in the UK
Suffi Suffian, Nottingham, United Kingdom

17.45 – 19.15 hrs  Session 7 - Parallel Workshops from Submitted Abstracts W3  Hall 1
Pathogenesis of *Helicobacter pylori*
Chair: Ari Ristimäki, Helsinki, Finland & Mark Pritchard, Liverpool, United Kingdom

17.45 – 18.00 07.01. Single-cell transcriptomics atlas of *Helicobacter pylori* infection-associated gastric carcinogenesis
Nianshuang Li, Nanchang, China  Virtual Talk - no live Q&A

18.00 – 18.15 07.02. The cytotoxic distending toxin modulates cell differentiation and elicits epithelial to mesenchymal transition
Lamia Azzi-Martin, Bordeaux, France

18.15 – 18.30 07.03. Effects of chronic *Helicobacter pylori* strain PMSS1 infection on whole brain and gastric iron homeostasis in male INS-GAS mice
Hilda Holcombe, Cambridge, United States

18.30 – 18.45 07.04. CD40-CD40L blockade attenuates disease in a new mouse model of gastric B cell MALT lymphoma
Richard Ferrero, Victoria, Australia

18.45 – 19.00 07.05. Th1 cytokines, especially TNF, cause NF-xB2 dependent morphological changes in primary mouse gastric organoids (gastroids)
Liwen Liu, Liverpool, United Kingdom

19.00 – 19.15 07.06. ACE2 is involved in the carcinogenic process of *Helicobacter pylori* infection
Huan Wang, Nanchang, China

17.45 – 19.15 hrs  Session 8 - Parallel Workshops from Submitted Abstracts W4  Room M1
Treatment of *Helicobacter pylori*
Chair: Jan Bornschein, Oxford, United Kingdom & Francesco Franceschi, Rome, Italy

17.45 – 18.00 08.01. Mistakes in empirical eradication therapies for *Helicobacter pylori* in 45,778 patients: data from the European Registry on *H. pylori* management (Hp-EuReg)
Samuel J. Martinez-Dominguez, Zaragoza, Spain  Virtual Talk - no live Q&A

18.00 – 18.15 08.02. *H. pylori* phages: from genome release to hope for use as therapy
Rute Ferreira, Braga, Portugal

18.15 – 18.30 08.03. Long-term changes of gut microbiota and antibiotic resistome after *H. pylori* eradication: a multicenter randomized trial
Jyh-Ming Liou, Taipei, Taiwan
18.30 – 18.45  
08.04. Comparison of empirical first-line treatment between tegoprazan versus lansoprazole based quadruple therapy: double-blind randomized controlled trial  
Jun-Won Chung, Incheon, Republic of Korea

18.45 – 19.00  
08.05. Comparison of the effectiveness of Helicobacter pylori eradication regimens between the elderly and non-elderly populations: data from the European Registry on H. pylori management (Hp-EuReg)  
Paulius Jonaitis, Kaunas, Lithuania

19.00 – 19.15  
08.06. Pilot studies of Vonoprazan-containing Helicobacter pylori eradication therapy  
Sarita Ratana-Amornpin, Pathumthani, Thailand

20.00 hrs  
Networking Dinner
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Event</th>
<th>Hall</th>
</tr>
</thead>
</table>
| 08.00 – 09.30 hrs | **Session 09: FMT**  
Chair: Josbert Keller, Den Haag, The Netherlands, Christian Hvas, Aarhus, Denmark       | Hall 1|
| 08.00 – 08.05   | 09.01 Introduction: FMT: from *C. difficile* towards other indications  
Josbert Keller, Leiden, The Netherlands                                                      |       |
| 08.05 - 08.25   | 09.02. FMT and immunotherapy: to overcome resistance and to treat immunotherapy induced colitis  
Gianluca Ianiro, Rome, Italy  
Virtual Talk - Live Q&A                                                                     |       |
| 08.25 – 08.40   | 09.03 FMT for Inflammatory Bowel diseases: timing and selection of patients and donors  
Tariq Iqbal, Birmingham, United Kingdom                                                       |       |
| 08.40 – 09.00   | 09.04 Encapsulation, life bacterial products and regulation  
Christian Hvas, Aarhus, Denmark                                                              |       |
| 09.00 – 09.15   | 09.05 Introduction of an FMT registry  
Maria Vehreschild, Frankfurt, Germany                                                         |       |
| 09.15 – 09.30   | 09.06 Investigations of SAE after FMT  
Liz Terveer, Leiden, The Netherlands                                                          |       |
| 09.30 – 10.00 hrs | **Coffee Break**                                                                               | Hall 2|
| 10.00 – 11.20 hrs | **Session 10: *H. pylori* Diagnosis & Treatment**                                                | Hall 1|
| 10.00 – 10.20   | 10.01 New methods for antimicrobial susceptibility testing. The US experience  
David Graham, Houston, Texas, USA                                                            |       |
| 10.20 – 10.40   | 10.02 *H. pylori* rescue treatment. Data from the Hp-EuReg  
Olga Nyssen, Madrid, Spain                                                                  |       |
| 10.40 - 11.00   | 10.03. Use of serum pepsinogen assays in clinical practice  
Sun-Young Lee, Seoul, Korea  
Virtual Talk - Live Q&A                                                                        |       |
| 11.00 – 11.20   | 10.04 Impact of probiotics on the faecal resistome during *H. pylori* eradication  
Marcis Leja, Riga, Latvia                                                                       |       |
| 11.20 – 12.20 hrs | **Session 11: Industry-Sponsored Satellite Symposium**                                          | Hall 1|
| 12.20 – 13.20 hrs | **Lunch Break & Poster Viewing**                                                               | Hall 2|
| 13.20 – 14.50 hrs | **Session 12 - Parallel Workshops from Submitted Abstracts W5**                                  | Hall 1|
| 13.20 – 13.35   | 12.01. Effects of transplant dose, route of administration, and repeating on the outcome of fecal microbiota transplantation for patients with irritable bowel syndrome  
Magdy El-Salhy, Bergen, Norway                                                                  |       |
| 13.35 – 13.50   | 12.02. The effect of multi-strain probiotics on diarrhea in patients with type 2 diabetes and metformin Intolerance  
Katarzyna Nabrdalik, Zabrze, Poland                                                             |       |
| 13.50 – 14.05   | 12.03. A microbiota targeted, Mediterranean diet-based nutritional education program positively modifies the intestinal microenvironment of healthy individuals  
Tsachi Perets, Petah Tikva, Israel  
Virtual Talk - no live Q&A                                                                     |       |
Natsuda Aumpan, Pathumthani, Thailand

14.20 – 14.35  12.05. Immune and non immune changes following fecal microbiota transplantation in experimental colitis: emerging pathways of fmt derived mucosal healing  
Valentina Pettito, Rome, Italy  
Virtual Talk - no live Q&A

14.35 – 14.50  12.06. Changes in gut microbiota after antibacterial therapy among children: preliminary data  
Ilva Daugule, Riga, Latvia

13.20 – 14.50 hrs  Session 13 - Parallel Workshops from Submitted Abstracts W6  
Room M1

13.20 – 13.35  13.01. Optimal Follow-Up Period after Endoscopic Resection of Early Gastric Cancer: A Multi-Center Retrospective Cohort Study  
Byung-Wook Kim, Incheon, Republic of Korea

13.35 – 13.50  13.02. Atrophic gastritis and gastric cancer tissue miRNome analysis  
Ruta Inciuraite, Kaunas, Lithuania

13.50 – 14.05  13.03. Helicobacter pylori testing among individuals at risk of gastric cancer: a potential interception point to reduce the gastric cancer burden in the US  
Meira Epplein, Durham, United States  
Virtual Talk - no live Q&A

14.05 – 14.20  13.04. Incidence of gastric cancer among long-term users of proton pump inhibitors after Helicobacter pylori eradication; a population-based cohort study in Korea  
Jong Wook Kim, Goyang, Republic of Korea

14.20 – 14.35  13.05. Identification of serological markers associated with gastric cancer in two Chinese studies using Helicobacter pylori multi-strain microarrays  
Rima Jeske, Heidelberg, Germany

Baptiste Oosterlinck, Antwerp, Belgium

14.50 – 15.20 hrs  Coffee Break  
Hall 2 - Exhibition & Poster Area

15.20 – 16.20 hrs  Session 14: Potassium Competitive Acid Blockers (P-CABs)  
Hall 1

15.20 – 15.40  14.01 P-CAB performance from a network meta-analysis  
Theodore Rokkas, Athens, Greece

15.40 – 16.00  14.02 Pharmacological and clinical properties of P-CABs  
Atherothrombosis  
Colin Howden, Memphis, TN, USA

16.00 – 16.20  14.03 Long-term experience with P-CABs  
Ken Sugano, Shimotsuke City, Japan  
Virtual Talk - Live Q&A
16.20 – 17.00 hrs  **Session 15: State of the Art lectures – Looking to the Future**

*Chair: Lars Engstrand, Stockholm, Sweden & Marcis Leja, Riga, Latvia*

16.20 – 16.40  **15.01 The BioCyc databases: pathways, omics tools and enhanced genome annotation**
Ron Caspi, Menlo Park, CA, USA

16.40 – 17.00  **15.02 New development on gastric cancer treatment**
Tamara Matysiak, Nantes, France

17.00 – 18.20 hrs  **Session 16: Closing Session**

*Chair: Annemieke Smet, Antwerp, Belgium & Georgina Hold, Sydney, Australia*

17.00 – 17.20  **16.01 The discovery of *H. pylori* viewed from the UK**
Clodna McNulty, Gloucester, UK

17.20 – 17.30  **16.02 Awarding of the Marshall and Warren Medal 2022**
to Massimo Rugge, Padova, Italy

17.30 – 17.35  **16.03 Awarding of the Marshall and Warren Medal 2020**
to Hazel Mitchell, Sydney, Australia

17.35 – 17.40  **16.04 Awarding of the Marshall and Warren Medal 2021**
to Dulciene Queiroz, Belo Horizonte, Brazil

17.40 – 17.50  **16.05 Awarding of the EHMSG Oral and Poster Awards**

17.50 – 18.00  **16.06 Presentation of the EHMSG Journal**
Francesco Franceschi, Rome, Italy

18.00 – 18.10  **16.07 Presentation of the next meeting in Antwerp**
Annemieke Smet, Antwerp, Belgium

Closing Remarks
Saturday, September 10, 2022

11.20 - 12.20 hrs  Industry Sponsored Satellite Symposium  
Chair: Colm O’MOrain, Dublin, Ireland

11:20 - 11:30  Introduction and presentation of RICHEN and the RICHEN Open Competition

11:30 - 11:45  Presentation of the winning candidate of the 2022 edition where the candidate will present the lines of the work performed with the discussion of the results

11:45 - 12:00  Presentation of the Richen Group projects and developments to support scientific research for the improvement of Gastroenterological diagnostics

12:00 - 12:10  Presentation of the new African study group „African Helicobacter and Microbiota Study Initiative“ in collaboration with Prof. Stella Smith

12:10 - 12:20  Awarding of the winner of the 2021 edition by the EHMSG Scientific Committee

Closing speech
Oral Presentations

Commercial Disclosure information
Due to EACCME regulations, authors are requested to disclose possible conflicts of interest on the first slide. A conflict of interest is any situation in which a speaker or immediate family members have interests, and those may cause a conflict with the current presentation. Conflicts of interest do not preclude the delivery of the talk, but should be explicitly declared. These may include financial interests (e.g. owning stocks of a related company, having received honoraria, consultancy fees), research interests (research support by grants or otherwise), organisational interests and gifts.
If you have nothing to disclose, please state “I have no commercial disclosure” instead of the table.

Speaking Time
The chairpersons of your session will be strict in allowing no more than the time allotted to your presentation. 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 technician in your session room before the beginning of the session.

Projection and Technical Settings
All rooms are equipped with a data projector for Power Point presentation only.
Presentation Format is 16:9

Handing in Your Presentation:
Preferably your PPT presentation is sent via WeTransfer or Dropbox (or similar) link to the conference office before the conference. It must in any case be handed over to the technician of the according lecture room in a break at least 2 hours before your talk either via USB-Memory Stick or USB-External Drives (30 minutes for talks in the first morning sessions).

General hints and tips
Like all of us, you will have sat through many conference talks, some good and some bad. We have all been to talks which failed to communicate their message because the speaker spoke impossibly fast, perhaps in a very indistinct way, or flashed through large numbers of slides so crammed with detail that nobody could follow them.

So please:
• Make yourself known to the chairpersons and/or the room assistant in your session room before the beginning of the session.
• Remember that the vast majority of the audience are not native English speakers - speak clearly (whether or not English is your native tongue) and not too fast
• Plan an average of no more than 1 slide per minute, in most cases
• Keep your Powerpoints simple. In text slides, use no more than ten lines per slide, with ample space between the lines, and no more than seven words per line in suitably large lettering
• Leave sufficient space between the text and the edge of the slide/screen. Some data projectors may not display the very border of the slide/presentation.
Poster Presentations

IMPORTANT NOTE: Posters are on display for two days. Posters need to be taken off by the author at the end of the conference. Posters not removed until then will be removed by the staff. Posters will be discarded, and neither kept, stored nor sent to the authors after the meeting.

Please note that the organisers cannot assume any liability for loss, theft or damage of posters displayed in the poster area.

Mounting of posters is possible on Friday, September 9, 2022 from 8.00 - 10.00 hrs.
Removal on Saturday, September 10, 2022, from 15.00-17.30 hrs.

You will find your poster board number in the author index of the online abstract book, as well as in the notification mail sent to you.

The presence at the poster of one of the authors is mandatory during the following times:

Friday, September 9, 2022

Poster Round P01 - Diagnosis of Helicobacter infection | Poster Numbers P01.01 - P01.10
Chair: Park Pritchard

Poster Round P02 - Treatment of Helicobacter infection | Poster Numbers P02.01 - P02.35
Chairs: Dmitry Bordin, Yaron Niv

Poster Round P03 - Gastric cancer | Poster Numbers P03.01 - P03.16
Chair: Juozas Kupcinskas

Poster Round P04 - Helicobacter infection - pathogenesis and host response | Poster Numbers P04.01 - P04.20
Chairs: Luiz Coelho, Varocha Mahachai

Saturday, September 10, 2022

Poster Round P05 - Epidemiology | Poster Numbers P05.01 - P05.13
Chair: Gauri Godbole

Poster Round P06 - Microbiology and genomics of Helicobacter | Poster Numbers P06.01 - P06.06
Chair: Francesco Boccellato

Poster Round P07 - Helicobacter and extragastroduodenal disease | Poster Numbers P07.01 - P07.04
Chair: Francesco Boccellato, Richard Hansen

Poster Round P08 - Microbiota in health and disease | Poster Numbers P08.01 - P08.15
Chair: Richard Hansen

Format

The usable surface on the poster board is 90 cm width x 150 cm height (portrait format). Adhesive material will be made available.
ACKNOWLEDGEMENTS

Acknowledgements

The organisers gratefully acknowledge the support of the following institutions and companies for the EHMSG 2022 Workshop:

Platinum Sponsor:

RICHEN FORCE HOLDINGS

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Waldner TECNOLOGIE MEDICALI
Novel Molecular Diagnostics for H pylori antibiotic resistance via Next Generation Sequencing

H pylori AmHPR Antibiotic Resistance Panel by Next Generation Sequencing

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>Antibiotic Resistance Related Genes Tested</th>
<th>DNA Mutations or Variant</th>
<th>Results and Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarithromycin</td>
<td>23S rRNA</td>
<td>A2143G</td>
<td>Resistant strains present (+)</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>gyrA</td>
<td>None</td>
<td>No resistant strains detected</td>
</tr>
<tr>
<td>Metronidazole</td>
<td>rdxA</td>
<td>pGlu75*</td>
<td>Resistant strains present (+)</td>
</tr>
<tr>
<td>Amoxicillin</td>
<td>pbp1</td>
<td>None</td>
<td>No resistant strains detected</td>
</tr>
<tr>
<td>Tetracycline</td>
<td>16S rRNA</td>
<td>None</td>
<td>No resistant strains detected</td>
</tr>
<tr>
<td>Rifabutin</td>
<td>rpoB</td>
<td>None</td>
<td>No resistant strains detected</td>
</tr>
</tbody>
</table>

Results Summary: Clarithromycin and Metronidazole resistant H. pylori strains were detected in the patient sample.

CAN BE PERFORMED ON FRESH TISSUE, FRESH STOOL OR FFPE
### Registration Details

#### Registration Fees in EURO

<table>
<thead>
<tr>
<th>Payment received</th>
<th>before July 10, 2022</th>
<th>July 11 - August 15, 2022</th>
<th>August 16, 2022 - On Site</th>
</tr>
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<tbody>
<tr>
<td>Regular Participant</td>
<td>330,-</td>
<td>430,-</td>
<td>530,-</td>
</tr>
<tr>
<td>Young Scientists &lt;35yrs</td>
<td>180,-</td>
<td>230,-</td>
<td>280,-</td>
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<tr>
<td>Students &lt;30yrs</td>
<td>120,-</td>
<td>150,-</td>
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<tr>
<td>Industry Representatives</td>
<td>460,-</td>
<td>560,-</td>
<td>660,-</td>
</tr>
<tr>
<td>Members of the Paediatric Task Force</td>
<td>230,-</td>
<td>260,-</td>
<td>290,-</td>
</tr>
<tr>
<td>Combined PGC &amp; EHMSG - Regular</td>
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<td>530,-</td>
<td>630,-</td>
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<td>380,-</td>
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<tr>
<td>Combined PGC &amp; EHMSG - Students</td>
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<td>250,-</td>
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<tr>
<td>Combined PGC &amp; EHMSG - Paediatric Task Force</td>
<td>330,-</td>
<td>360,-</td>
<td>390,-</td>
</tr>
<tr>
<td>Postgraduate Course ONLY</td>
<td>160,-</td>
<td>180,-</td>
<td>200,-</td>
</tr>
<tr>
<td>Welcome Reception</td>
<td>Thursday, September 8, 2022 (no fee, but registration is mandatory)*</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Conference Dinner</td>
<td>Friday, September 9, 2022**</td>
<td>75,-</td>
<td>75,-</td>
</tr>
<tr>
<td>Lunch Ticket (per day)***</td>
<td>25,-</td>
<td>25,-</td>
<td>not available on site</td>
</tr>
</tbody>
</table>

* no fee but registration is mandatory, registering for tickets on site is subject to availability

** Purchasing tickets on site is subject to availability

*** Lunch tickets had to be pre-ordered and cannot be purchased on site

#### Payment of Registration fees

Payment of registration fees may be made either cash in Euro or by Credit Card (Diners Club, Mastercard and Visa).

#### Please note

The early and regular registration fees were only applicable, if they have been credited to the congress account before the deadline. Registering before July 10, 2022 resp. August 15, 2022 without performing an actual payment was not sufficient to benefit from the respective reductions.

#### What is covered by the registration fee?

- Admission to all scientific sessions and the exhibition
- Admission to the Welcome Reception - Limited attendance. Ticket mandatory, subject to availability
- Programme book
- Access to the Online Abstract Book
- Refreshments during coffee breaks

#### General Information in alphabetical order.

More information can be found on the EHMSG 2022 website at www.workshop.ehmsg.org - see “General Information”

#### Access the Conference Venue

Once in the city centre, the SEC is a three-minute train ride from Glasgow Central. If you arrive at Queen Street, you’ll need to walk or get a bus to Central to continue your journey by train.

The SEC has its own dedicated railway station – Exhibition Centre – allowing easy access from the city centre and suburbs. There are six trains an hour (around every 10 minutes) from Glasgow Central station, departing from Platform 17 (low level). Visit www.workshop.ehmsg.org/venue for detailed directions
Badges
Participants should collect name badges from the conference registration desk. As only registered participants will be permitted to attend the Scientific Sessions, the Exhibition and poster areas, you are kindly asked to wear your badge when entering the congress venue.

Cancellations and Refunds
Notice of cancellation had to be made in writing by email or fax to the Congress Office. The policy for refunding registration fees is as follows:
Written cancellation received:
- Until July 18, 2022: 50% refund
- From July 19, 2022: no refund
The date of the email or fax ID is the basis for considering refunds. Refunds will be made after the congress.

Certificate of Attendance
Confirmations of attendance will be issued after completion of a post-conference online survey

Cash Dispensers
ATMs are available at the conference venue. Local currency (GBP) can also be obtained from banks and exchange bureaus.

CME Credits
The “XXXVth International Workshop on Helicobacter and Microbiota in Inflammation and Cancer” was granted a total of 14 European CME credits (ECMEC) the Postgraduate Course on “The Microbiome Meets the Clinic: Turning Understanding into New Treatments” was granted a total of 6 European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

Coffee Breaks and Lunch
During the session breaks refreshments (coffee, tea, and water) will be served free of charge to participants wearing name badges. Lunch tickets for Thursday, Friday and Saturday had to be pre-ordered and cannot be purchased on site. Lunch tickets are not refundable.

Conference Venue
XXXVth Workshop of the EHMSG:
Scottish Event Campus, Exhibition Way
Glasgow, Scotland, G3 8YW
United Kingdom

COVID19 Test Centers
In case you require COVID19 testing prior to your departure, we herewith provide you with the names and addresses of 2 test centers close to the conference venue.

Book your appointments directly online.
Dam Health
Website: https://www.dam-health.com/glasgow-city-centre/
Address: 55 St Enoch Square

Randox
Website: https://scot.randox.com/ Address: 150 Howard Street

Currency
The official currency of the United Kingdom is the British Pound (GBP).
1 GBP = 1,18 EUR = 1,20 USD = 162 JPY = 1,14 CHF = 12,54 SEK = 8,81 DKK = 1,73 AUD = 1,55 CAD = 1,59 KRW
as per date of printing

Electricity Supply
In the United Kingdom the standard voltage is 230 V and the frequency is 50 Hz. You can use your electric appliances in United Kingdom, if the standard voltage in your country is in between 220 - 240 V (as is in Europe, Australia and most of Asia and Africa). Socket Type G.
GSM cell phone roaming
GSM cell/mobile phone roaming is available without any problems for all major international providers. It is advisable to inquire at your provider which roaming company in the United Kingdom offers the cheapest tariffs for EU and non-EU contracts.

Internet
You will find Internet cafés throughout the city. Free WIFI is available at the conference venue.

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

Liability
In registering for the EHMSG 2022 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. Furthermore, the organisers cannot assume any liability for changes in the programme due to external or unforeseen circumstances and force majeure.

Opening hours of the Exhibition at the Conference venue
EHMSG Postgraduate Course
Thursday, September 8, 2022: 08.30 – 18.00 hrs

EHMSG Workshop
Friday, September 9, 2022: 08.25 – 19.15 hrs
Saturday, September 10, 2022: 08.00 – 18.10 hrs

Poster Removal
The organisers cannot assume any liability for loss or damage of posters displayed in the poster area. Posters that were not removed after the end of the conference, will be removed and will not be kept nor mailed to the author after the meeting. See detailed in formation in the “scientific information” section of the program.

Safety - Crime
Visitor safety is generally adequate, like in any other major European city. You can walk everywhere using common sense. Pick pocketing in heavily visited tourist zones or in public transport lines might be a concern. Unfortunately experience has shown that some basic precautionary measures should always be kept in mind in any city:
- Do not carry important items like flight tickets, passports etc. with you when visiting the conference or strolling through the city, leave them in the hotel safe during your stay. Rather carry a Xerox copy of your passport or an identity card with you.
- Try not to carry all documents, money, credit cards and other essential items and valuables in one bag. If it is lost or stolen, everything will be gone and might be difficult to replace on short notice, especially passports and visa to return to your country of residence.
- Take off your name badge when leaving the conference venue, it will make you easily identifiable as a tourist.

Smoking Policy
The EHMSG 2022 Workshop is a “No-smoking-Conference”.

Social Media Policy
EHMSG supports the use of social media around the EHMSG conference to network with your colleagues and friends attending the meeting. Please do however respect the EHMSG social media guidelines, including the following:

Dos:
- You may blog or tweet about content of the talks, unless the speaker explicitly asks you not to share either the entire talk or specific details or slides.
- Communicate in a respectful and considerate way, and show your criticism in a fair, constructive and professional manner.
- Do remember that people who will read your tweets are not necessarily professionals, but also patients, policymakers, members of the media, and the general public.

**Don’ts:**
- The use of photography, video, or other type of recording devices in oral sessions (plenary, educational, concurrent sessions and symposia) and poster sessions at the EHMSG conference is strictly prohibited. Hence posting pictures or videos of these sessions on any social media platform, blogs, or websites, etc., is also strictly prohibited.
- Do not capture or re-distribute data presented at the EHMSG conference as this may jeopardize the subsequent publication of the data in a scientific journal. Powerpoint presentations must not be photographed under any circumstances. Do respect journal embargo policies and the work of your colleagues!
- Refrain from engaging in personal attacks or showing rude behaviour.
- Offensive and disrespectful behaviour, sales-oriented, self-promoting, or otherwise inappropriate comments will not be tolerated.
- Participants should not post copyrighted or trademarked material or material protected by other intellectual property rights.

**Staff**
If you should have any questions, the congress staff will be pleased to help you.

**Taxis**
Please see https://www.glasgowtaxis.co.uk/

**Staff**
If you should have any questions, the congress staff will be pleased to help you.

**Microbiota in Health and Disease,**

The official journal of the European Helicobacter and Microbiota Study Group – EHMSG, is focused on all issues related to the role of microbiota in maintaining health or promoting diseases, not only confined to the GI tract. Its scope ranges from publishing papers on novelties in basic science, translational research, clinical trials and new therapeutic options, in order to supply international researchers with a valuable platform of discussion of challenges and opportunities in the field of microbiota.

You are kindly invited to submit your valuable paper completely FREE OF CHARGE

For submissions please visit the website: https://www.microbiotajournal.com
Networking Events

Thursday, September 8, 2022, 19.00 hrs

Networking Event hosted by the Lord Provost of Glasgow and take place at the Glasgow City Chambers
Free for registered participants, however registration for this event is mandatory.
Tickets will be collected onsite

Friday, September 9, 2022, 20.00 hrs

EHMSG Networking Evening at the Òran Mór
A ticket is required and will be checked at the entrance - EUR 75,- per ticket
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