



# XXXVII<sup>th</sup> Workshop of the European Helicobacter & Microbiota Study Group

EHMSG Postgraduate Course

*“Clinical outcomes of *H. pylori* infection - current management in 2024”*

September 12 - 14, 2024 | Porto, Portugal



## Final Programme

[www.workshop.ehmsg.org](http://www.workshop.ehmsg.org)





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supported by

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## AWARDEES OF THE MARSHALL AND WARREN MEDAL

- 2024 Fátima Carneiro, Porto, Portugal
- 2023 Youri Glupczynski, Brussels, Belgium
- 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 & Stanislaw Konturek, Cracow, Poland

**NEXT EHMSG WORKSHOP**

**Rome, Italy | September 11 - 13, 2025**

### Welcoming address by the President of the European Helicobacter and Microbiota Study Group Prof. Dr. José Carlos Machado

Dear Colleagues and Friends,

We are delighted to welcome you to the XXXVIIth Workshop of the European Helicobacter and Microbiota Study Group (EHMSG), which will take place in Porto, Portugal, from 12<sup>th</sup> to 14<sup>th</sup> September, 2024.



The EHMSG is a multidisciplinary group of scientists and clinicians who share a common interest in the field of Helicobacter and microbiota research. Our annual workshop is a unique opportunity to exchange knowledge, experience, and ideas on the latest advances and challenges in this dynamic and rapidly evolving area.

The scientific program of the workshop covers a wide range of topics, including the epidemiology, diagnosis, treatment, and prevention of Helicobacter and microbiota-associated diseases, the molecular mechanisms and host-microbe interactions underlying these conditions, and the impact of Helicobacter and microbiota on inflammation, immunity, and cancer. The workshop features keynote lectures, oral and poster presentations, and interactive sessions with experts in the field.

We are especially proud to host the workshop in Porto, a city with a long and distinguished tradition of gastric cancer research. Researchers from the University of Porto have been at the forefront of this field, contributing to the understanding of the etiopathogenesis of hereditary and *Helicobacter pylori*-induced gastric carcinogenesis, as well as the role of other microbial factors, such as the gut microbiota, in gastric cancer development and progression.

This is the second time that Porto has the honor of hosting the EHMSG workshop, after the successful XXII<sup>th</sup> edition in 2009. We look forward to welcoming you to Porto and to sharing with you an exciting and memorable workshop.

Sincerely,

Professor Dr. Jose Carlos Machado  
President of the EHMSG

# SAVE THE DATES

XXXVIII Workshop of the European Helicobacter  
and Microbiota Study Group

September 11 - 13, 2025

Rome | Italy

Local Organizing Committee

*as per date of printing*

Giovanni Barbara \* Patrizia Brigidi \* Giovanni Cammarota \* Cristiano Caruso  
Francesco Franceschi \* Antonio Gasbarrini \* Gianluca Ianiro \* Lucrezia Laterza  
Loris Riccardo Lopetuso \* Luca Miele \* Francesca Romana Ponziani  
Serena Porcari \* Lorenza Putignani \* Maria Rescigno \* Maurizio Sanguinetti  
Edoardo Savarino \* Franco Scaldaferri \* Carmelo Scarpignato \* Nicola Segata



## European Helicobacter & Microbiota Study Group EHMSG

### President of the EHMSG

José Carlos Machado, Portugal

### Members and International Scientific Committee

Emilie Bessède, France  
 Lars Engstrand, Sweden  
 Javier P. Gisbert, Spain  
 Georgina Hold, Australia  
 Gianluca Ianaro, Italy  
 Josbert Keller, The Netherlands  
 Juozas Kupcinskis, Lithuania  
 Marcis Leja, Latvia  
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 Peter Malfertheiner, Germany  
 Francis Mégraud, France  
 Colm A. O'Morain, Ireland  
 Mirjana Rajilić-Stojanović, Serbia  
 Ari P. Ristimäki, Finland  
 Theodore Rokkas, Greece  
 Christian Schulz, Germany  
 Annemieke Smet, Belgium  
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 Anthony Axon, United Kingdom  
 Michel A.L. Deltenre, Belgium (†)  
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 José M. Pajares Garcia, Spain (†)  
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 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  
 Antonio Gasbarrini, Italy  
 David Y. Graham, United States  
 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)
- Edinburgh (1995)
- Copenhagen (1996)
- Lisbon (1997)
- Budapest (1998)
- Helsinki (1999)
- Rome (2000)
- Strasbourg (2001)
- Athens (2002)
- Stockholm (2003)
- 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)
- Antwerp (2023)
- Porto (2024)

### Local Committee

#### President

José Carlos Machado, Portugal

#### Members

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 Ricardo Marcos Pinto, Porto, Portugal  
 Celso Reis, Porto, Portugal

#### Corresponding Fellows

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 Dmitry Bordin, Russia  
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 Oleg Shvets, Ukraine  
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 Yoshio Yamaoka, Japan  
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**Thursday, September 12, 2024**

09.00 - 17.30 hrs	<b>EHMSG Postgraduate Course</b> "Clinical outcomes of H. pylori infection - current management in 2024"	Room "Amphitheatre"
17.45 - 19.45 hrs	<b>Networking Event</b>	Welcome Reception at the Conference Venue - Sala 4

**Friday, September 13, 2024**

08.25 – 19.00 hrs	<b>EHMSG 2024 Workshop</b>	
08.30 – 10.30 hrs	<b>Session 1: Hot topics in H.pylori and gut microbiota</b>	Room "Amphitheatre"
10.30 - 11.00 hrs	<i>Coffee Break</i>	Room "Sala 4" Exhibition & Poster Area
11.00 – 12.45 hrs	<b>Session 2: News on gastritis</b> <i>(Parallel Session)</i>	Room "Amphitheatre"
11.00 – 12.45 hrs	<b>Session 3: Microbiome mechanisms of action</b> <i>(Parallel Session)</i>	Room "Sala 3"
12.45 – 14.00 hrs	<i>Lunch Break &amp; Poster Viewing</i>	Room "Sala 4" Exhibition & Poster Area
14.00 – 15.00 hrs	<b>Session 4: Industry-Sponsored Satellite</b>	Room "Amphitheatre"
15.00 - 16.45 hrs	<b>Session 5: Helicobacter pylori: Genetics and Beyond</b> <i>(Parallel Session)</i>	Room "Amphitheatre"
15.00 - 16.45 hrs	<b>Session 6: Oncobiome</b> <i>(Parallel Session)</i>	Room "Sala 3"
16.45 - 17.15 hrs	<i>Coffee Break</i>	Room "Sala 4" Exhibition & Poster Area
17.15 - 19.00 hrs	<b>Session 7: Gastric Carcinogenesis</b> <i>(Parallel Session)</i>	Room "Amphitheatre"
17.15 - 19.00 hrs	<b>Session 8: FMT Session</b> <i>(Parallel Session)</i>	Room "Sala 3"
20.00 hrs	<b>Networking Dinner</b>	Conference Dinner at the Palacio da Bolsa



**Saturday, September 14, 2024**

08.30 – 18.00 hrs	<b>EHMSG 2024 Workshop</b>	
08.30 – 09.15 hrs	<b>Session 9: Memorial Talks</b>	Room "Amphitheatre"
09.15 – 11.00 hrs	<b>Session 10: <i>H. pylori</i> management</b> <i>(Parallel Session)</i>	Room "Amphitheatre"
09.15 – 11.00 hrs	<b>Session 11: Probiotics</b> <i>(Parallel Session)</i>	Room "Sala 3"
11.00 - 11.30 hrs	<i>Coffee Break</i>	Room "Sala 4" Exhibition & Poster Area
11.30 - 13.30 hrs	<b>Session 12: Debates – Gastric cancer screening</b>	Room "Amphitheatre"
13.30 – 15.00 hrs	<i>Lunch Break &amp; Poster Viewing</i>	Room "Sala 4" Exhibition & Poster Area
15.00 - 17.00 hrs	<b>Session 13: Updates in Helicobacter &amp; Microbiota</b>	Room "Amphitheatre"
17.00 - 18.00 hrs	<b>Session 14: Closing Session</b>	Room "Amphitheatre"





## EHMSG Postgraduate Course

“Clinical outcomes of *H. pylori* infection - current management in 2024”  
Room “Amphitheatre”

08.30 – 09.00 hrs	<b>Registration</b>	
09.00 – 09.15 hrs	<b>Welcoming</b> Jose Carlos Machado (Portugal), Mário Dinis Ribeiro (Portugal)	
<b>09.15 – 10.00 hrs</b>	<b>Session I: Screening and diagnosis of <i>H. pylori</i> infection</b> <i>Chair: Miguel Areia (Portugal) &amp; Bojan Tepeš (Slovenia)</i>	
09.15 – 09.30 hrs	<b>1.1. When to screen for <i>H. pylori</i>?</b> Colm O’Morain, Ireland	
09.30 – 09.45 hrs	<b>1.2. How to test for Hp diagnosis? Diagnostic properties and limitations</b> Francis Mégraud, France	
09.45 – 10.00 hrs	<b>Discussion</b>	
<b>10.00 – 11.00 hrs</b>	<b>Session II: Therapy of <i>H. pylori</i></b> <i>Chair: Christian Schulz (Germany) &amp; Nuno Almeida (Portugal)</i>	
10.00 – 10.15 hrs	<b>2.1 The Maastricht guideline: How to treat?</b> Peter Malfertheiner, Germany	
10.15 – 10.30 hrs	<b>2.2. Results of registry: real-life data</b> Olga Nyssen, Spain	
10.30 – 10.45 hrs	<b>2.3. Tailored treatment with molecular resistance tests</b> Juozas Kupcinskis, Lithuania	
10.45 – 11.00 hrs	<b>Discussion</b>	
11.00 – 11.30 hrs	<i>Coffee Break</i>	Entrance Hall
<b>11.30 – 12.30 hrs</b>	<b>Clinical cases discussion I</b> <i>Chair: Ricardo Marcos-Pinto (Portugal) &amp; Javier P. Gisbert (Spain) &amp; Nuno Almeida (Portugal)</i> Presenters: Elisa Soares (Portugal) & Henrique Mendes (Portugal)	
<b>12.30 – 13.00 hrs</b>	<b>Conference I: Burden of <i>H. pylori</i> and related clinical outcomes in 2024</b> <i>Chair: Iris Lansdorp – Vogelaar (The Netherlands) &amp; Mário D Ribeiro (Portugal)</i> Presenter: Shailja Shah, United States	
13.00 – 14.00 hrs	<i>Lunch Break</i>	Entrance Hall
<b>14.00 – 14.30 hrs</b>	<b>Conference II: Microbiota and <i>H. pylori</i>: Is there a role for probiotics in 2024?</b> <i>Chair: José Carlos Machado (Portugal) / Céu Figueiredo (Portugal)</i> Presenter: Gianluca Ianaro, Italy	



**14.30 – 16.00 hrs**      **Session III: Clinical problems related with *H. pylori*: how to manage in 2024**

*Chair: Theodore Rokkas (Greece) & João Antunes (Portugal)*

**14.30 – 14.45**      **Dyspepsia: the missing link? Test-and-treat or endoscopy?**  
Jan Bornschein, United Kingdom

**14.45 – 15.00**      **Peptic ulcer**  
Christian Schulz, Germany

**15.00 – 15.15**      **Gastritis and intestinal metaplasia - MAPS guidelines**  
Mário Dinis Ribeiro, Portugal

**15.15 – 15.30**      **Management of gastric cancer : early and advanced**  
Diogo Libânio, Portugal

**15.30 – 15.45**      **Management of MALT lymphoma**  
Rita Coutinho, Portugal

**15.45 – 16.00**      **Discussion**

*16.00 – 16.30 hrs*      *Coffee Break* Entrance Hall

**16.30 – 17.30 hrs**      **Clinical cases discussion II**  
*Chair: Armando Peixoto (Portugal) & Jan Bornschein (United Kingdom) & Miguel Areia (Portugal)*

*Presenters: Maria Ines Viegas (Portugal) & Joana Mota (Portugal)*

**17.30 – 17.45 hrs**      **Closing**  
*Jose Carlos Machado (Portugal) & Mário Dinis Ribeiro (Portugal)*

**17.45 - 19.45 hrs**      **EHMSG 2024 Welcome Reception**

Faculty

- Fátima Carneiro, Porto, Portugal
- Patrícia Carneiro, Porto, Portugal
- Rui Ferreira, Porto, Portugal
- Joana Figueiredo, Porto, Portugal
- Carla Oliveira, Porto, Portugal
- Carina Pereira, Porto, Portugal
- Celso Reis, Porto, Portugal
- Emilie Bessède, France
- Georgina Hold, Australia
- Colm A. O'Morain, Ireland
- Mirjana Rajilić-Stojanović, Serbia
- Annemieke Smet, Belgium



**08.25 – 08.30**      **Welcome by EHMSG President José Carlos Machado, Porto, Portugal**



### 08.30 – 10.30 hrs

#### Session 1: Hot topics in *H.pylori* and gut microbiota

Chair: Jose Machado, Porto, Portugal & Ari Ristimäki, Helsinki, Finland

Room „Amphitheatre“

08.30 – 08.50 hrs

##### 1.1. The person-to-person transmission landscape of the gut and oral microbiomes

Vitor Heidrich, Trento, Italy

08.50 – 09.10 hrs

##### 1.2. New drugs targeting *H. pylori* envelopes

Ivo Gomperts Boneca, Paris, France

09.10 – 09.30 hrs

##### 1.3. Evolving concepts in *H. pylori* management

Shailja Shah, San Diego, CA, United States

09.30 – 09.50 hrs

##### 1.4. Vaccination Protects Against Gastric Cancer

Thomas Boren, Umea, Sweden

09.50 – 10.10 hrs

##### 1.5. The humanized Leb mouse model reproduces the Correa gastric cancer cascade during the chronic *H. pylori* infection

Artem Piddubnyi, Umea, Sweden

10.10 – 10.30 hrs

##### 1.6. GWAS on *H. pylori* seroprevalence

Constanza Camargo, Rockville, MD, United States

### 10.30 – 11.00 hrs

#### Coffee Break

Room “Sala 4” - Exhibition & Poster Area

### 11.00 – 12.45 hrs

#### Session 2: News on gastritis (Parallel Session)

Chair: Theodore Rokkas, Athens, Greece & Fatima Carneiro, Porto, Portugal

Room „Amphitheatre“

11.00 – 11.20 hrs

##### 02.01 The RE.GA.IN consensus project

Massimo Rugge, Padua, Italy

11.20 – 11.40 hrs

##### 02.02 Autoimmune gastritis: long-term natural history in naïve *H. pylori*-negative patients

Ludovica Bricca, Padua, Italy

11.40 – 12.00 hrs

##### 02.03 Trends in the prevalence of atrophic gastritis and *Helicobacter pylori* in Far East

Yoshio Yamaoka, Oita, Japan

12.00 – 12.15 hrs

##### 02.04 *Helicobacter pylori* Seroprevalence In Histologically *H. pylori*-negative Autoimmune Atrophic Gastritis Patients

Edith Lahner, Rome, Italy

12.15 – 12.30 hrs

##### 02.05 Interleukin-27 Is Highly Expressed In The Serum And Gastric Mucosa Of Children With *H. pylori*-associated Gastroduodenal Diseases

Dulciene Queiroz, Belo Horizonte, Brasil

12.30 – 12.45 hrs

##### 02.06 Autoimmune Gastritis In Pediatric Age And Its Relationship With *H. pylori* Infection

Inês Aires Martins, Porto, Portugal

### 10.30 – 12.30 hrs

#### Session 3: Microbiome mechanisms of action (Parallel Session)

Chair: Mirjana Rajilic-Stojanovic, Belgrade, Serbia & Rui Ferreira, Porto, Portugal

Room „Sala 3“

11.00 – 11.20 hrs

##### 03.01 Protein fermentation products and health outcomes

Silvio Waschina, Kiel, Germany

11.20 – 11.40 hrs

##### 03.02 Mechanisms of microbiome engraftment

Gianluca Ianaro, Rome, Italy

11.40 – 12.00 hrs

##### 03.03 Mycobiome in IBD

Petra Bacher, Kiel, Germany

12.00 – 12.15 hrs

##### 03.04 Microbiome Composition In Patients With Upper Gastrointestinal Cancer And Small Intestinal Bacterial Overgrowth (SIBO)

Marino Venerito, Magdeburg, Germany

12.15 – 12.30 hrs

##### 03.05 The Impacts Of The Crosstalk Between Bacterial Vaginosis Associated Bacteria And *Trichomonas vaginalis* On The Pathogenesis And Host Immune Responses

Shu-Fang Chiu, Taipei, Taiwan

12.30 – 12.45 hrs

##### 03.06 Mycobiome Dysbiosis In Liver Cirrhosis Patients

Darja Nikitina, Kaunas, Lithuania



12.45 – 14.00 hrs	<b>Lunch &amp; Poster Viewing</b>	Room "Sala 4" - Exhibition & Poster Area
<b>14.00 – 15.00 hrs</b>	<b>Session 4: Industry-Sponsored Satellite Symposium</b> See page 21 for details	Room Room „Amphitheatre“
<b>15.00 – 16.45 hrs</b>	<b>Session 5: Helicobacter pylori: Genetics and Beyond (Parallel Session)</b> <i>Chair: Peter Malfertheiner, Munich, Germany &amp; Celso Reis, Porto, Portugal</i>	Room „Amphitheatre“
15.00 – 15.20 hrs	<b>05.01 Differences in <i>H. pylori</i> population structures worldwide</b> Kaisa Thorell, Gothenburg, Sweden	
15.20 – 15.40 hrs	<b>05.02 <i>H. pylori</i> evolution depends on niche specific physiological conditions</b> Sebastian Suerbaum, Munich, Germany	
15.40 – 16.00 hrs	<b>05.03 Impact of <i>H. pylori</i> on mucosal immunity and colorectal cancer</b> Markus Gerhard, Munich, Germany	
16.00 – 16.15 hrs	<b>05.04 <i>Helicobacter pylori</i> Infection Leads To Systemic Metabolic Reprogramming Through The IL-6/JAK/STAT3 Pathway</b> Bingting Yu, Rotterdam, Netherlands	
16.15 – 16.30 hrs	<b>05.05 The <i>H. pylori</i> Autotransporter ImaA Associates With Extracellular Vesicles To Modulate Host Inflammatory Responses In Gastric Epithelial Cells</b> Angus Cramond, Clayton, Australia	
16.30 – 16.45 hrs	<b>05.06 The Prophages Of The Helicobacter Genus</b> Filipa Vale, Lisbon, Portugal	
<b>15.00 – 16.45 hrs</b>	<b>Session 6: Oncobiome (Parallel Session)</b> <i>Chair: Juozas Kupcinskas, Kaunas, Lithuania &amp; Carina Pereira, Porto, Portugal</i>	Room „Sala 3“
15.00 – 15.20 hrs	<b>06.01 Microbiome mediated inflammation in colon cancer</b> Mathias Chamailard, Lille, France	
15.20 – 15.40 hrs	<b>06.02 Predicting CRC survival post-surgical resection using tumour microbial profiling</b> James Alexander, London, United Kingdom	
15.40 – 16.00 hrs	<b>06.03 Microbiota-modulated immune checkpoint</b> Carolina Alves Costa Silva, Villejuif, France	
16.00 – 16.15 hrs	<b>06.04 Longitudinal Definition Of The Gastric Microbiome From A High-Gastric-Cancer-Risk Cohort From Colombia, South America</b> Anthony Mannion, United States	
16.15 – 16.30 hrs	<b>06.05 Characterization Of The Intratumoral Microbiota In Gastric Cancer Patients</b> Marine Jauvain, Bordeaux, France	
16.30 – 16.45 hrs	<b>06.06 Microbiome-Derived Metabolites As Novel Biomarkers Of Gastric Cancer</b> Rui Ferreira, Porto, Portugal	
<b>16.45 – 17.15 hrs</b>	<b>Coffee Break</b>	Room "Sala 4" - Exhibition & Poster Area
<b>17.15 – 19.00 hrs</b>	<b>Session 7: Gastric Carcinogenesis (Parallel Session)</b> <i>Chair: Emilie Bessède, Bordeaux, France &amp; Carla Oliveira, Porto, Portugal</i>	Room „Amphitheatre“
17.15 – 17.35 hrs	<b>07.01 Microbiome and gastric cancer</b> Ceú Figueiredo, Porto, Portugal	
17.35 – 17.55 hrs	<b>07.02 Gastric Intestinal Metaplasia an Innocent Bystander in Gastric Cancer?</b> Ken Sugano, Ahimotsuke, Japan	
17.55 – 18.15 hrs	<b>07.03 Natural History of Sporadic and Hereditary Diffuse Gastric Carcinoma: From Onset to Progression</b> Fatima Carneiro, Porto, Portugal	
18.15 – 18.30 hrs	<b>07.04 Unveiling Plasma Protein Signatures For Gastric Preneoplasia And Cancer Lesion Detection</b> Eliette Touati, Paris, France	

Friday

Saturday

Sponsored Symposium

Scientific Information

Acknowledgements

General Information



18.30 – 18.45 hrs	<b>07.05 Gastric Cancer Invasion: Physical And Biochemical Nuclear Readouts Elicited By E-Cadherin Loss</b> Joana Figueiredo, Porto, Portugal	
18.45 – 19.00 hrs	<b>07.06 The Autophagy Protein IRGM Is A Key Player In Gastric Carcinogenesis</b> Elsa Kalluzhathil, Kensington, Australia	
<b>17.15 – 19.00 hrs</b>	<b>Session 8: FMT session (Parallel Session)</b> <i>Chair: Josbert Keller, Den Haag, Netherlands &amp; Gianluca Ianaro, Rome, Italy</i>	Room „Sala 3“
17.15 – 17.35 hrs	<b>08.01 Safety in FMT</b> Josbert Keller, Den Haag, Netherlands	
17.35 – 17.55 hrs	<b>08.02 Regulation of FMT and donor screening</b> Christian Hvas, Aarhus, Denmark	
17.55 – 18.15 hrs	<b>08.03 How to improve FMT success</b> Alexander Link, Magdeburg, Germany	
15.15 – 18.30 hrs	<b>08.04 Effectiveness Of Fecal Microbiota Transplant In Metabolic Syndrome: A Randomized Double-Blinded Placebo-Controlled Trial</b> Ratha-korn Vilaichone, Pathumthani, Thailand	
18.30 – 18.45 hrs	<b>08.05 Fecal Microbiota Transplantation (FMT) Versus Placebo In Patients Receiving Pembrolizumab Plus Axitinib For Advanced Renal Cell Carcinoma. A Double-Blind Randomized Controlled Trial (TACITO Trial)</b> Gianluca Ianaro, Rome, Italy	
18.45 – 19.00 hrs	<b>08.06 Efficacy And Safety Of Fecal Microbiota Transplantation In Patients With Irritable Bowel Syndrome: A Preliminary Report</b> Ho-Young Lee, Seoul, Republic of Korea	
<b>20.00 hrs</b>	<b>Networking Dinner</b>	



<b>08.30 – 09.15 hrs</b>	<p><b>Session 9: Memorial Talks</b>  <i>Chair: Francis Mégraud, Bordeaux, France &amp; Colm O'Morain, Dublin, Ireland &amp; Peter Malfertheiner, Munich, Germany</i> <span style="float: right;">Room „Amphitheatre“</span></p>
08.30 – 08.45 hrs	<p><b>09.01 In Memoriam Ashley Price</b>                  Anthony Axon, Knutsford, United Kingdom</p>
08.45 – 09.00 hrs	<p><b>09.02 In Memoriam Pentti Sipponen</b>                  Ari Ristimäki, Helsinki, Finland</p>
09.00 – 09.15 hrs	<p><b>09.03 In Memoriam Adrian Lee</b>                  Jim Fox, Cambridge, MA, United States</p>
<b>09.15 – 11.00 hrs</b>	<p><b>Session 10: <i>H. pylori</i> management (Parallel Session)</b>  <i>Chair: Colm O'Morain, Dublin, Ireland &amp; Nuno Almeida, Coimbra, Portugal</i> <span style="float: right;">Room „Amphitheatre“</span></p>
09.15 – 09.35 hrs	<p><b>10.01 Current role of tailored therapy in treating <i>H. pylori</i> infection</b>                  Theodore Rokkas, Athens, Greece</p>
09.35 – 09.55 hrs	<p><b>10.02 The rebirth of Bismuth in <i>H. pylori</i> eradication</b>                  Rocco Maurizio Zagari, Bologna, Italy</p>
09.55 – 10.15 hrs	<p><b>10.03 Latin American Registry on the Management of <i>H. pylori</i> Infection (Hp-LATAMReg)</b>                  Arnoldo Riquelme, Santiago, Chile</p>
10.15 – 10.30 hrs	<p><b>10.04 Effectiveness And Safety Of First-Line Empirical Non-Bismuth Concomitant Therapy Versus Single-Capsule Bismuth Quadruple Therapies In Spain: Analysis Of 12,000 Patients From The European Registry On <i>Helicobacter pylori</i> Management (Hp-Eureg)</b>                  Olga Nyssen, Madrid, Spain</p>
10.30 – 10.45 hrs	<p><b>10.05 A Novel Multi-Epitope-Based Vaccine Against <i>H. pylori</i>; Evaluation Of The Protective Effect</b>                  Behnam Kalali, Munich, Germany</p>
10.45 – 11.00 hrs	<p><b>10.06 7-Day Therapy Vs. 14-Day Therapy In Empirical And Tailored Therapy: A Placebo-Controlled Randomized Nationwide Trial In Korea</b>                  Byung-Wook Kim, Incheon, Republic of Korea</p>
<b>09.15 – 11.00 hrs</b>	<p><b>Session 11: Probiotics (Parallel Session)</b>  <i>Chair: Francesco Franceschi, Rome, Italy &amp; Christian Schulz, Munich, Germany</i> <span style="float: right;">Room „Sala 3“</span></p>
09.15 – 09.35 hrs	<p><b>11.01 Use of probiotics in chronic liver diseases</b>                  Alexander Link, Magdeburg, Germany</p>
09.35 – 09.55 hrs	<p><b>11.02 Inflammatory bowel diseases: when can probiotics be helpful?</b>                  Loris Lopetuso, Rome, Italy</p>
09.55 – 10.15 hrs	<p><b>11.03 Dietary Sulforaphane Increases Butyrate-Producing Intestinal Microbiota And Decreases Fecal Calprotectin Level In Patients With Ulcerative Colitis</b>                  Akinori Yanaka, Tsukuba, Japan</p>
10.15 – 10.30 hrs	<p><b>11.04 The Beneficial Effect Of A Probiotic Intervention On Quality Of Sleep - A Randomized, Double-Blinded, Placebo-Controlled Study</b>                  Angela Horvath, Graz, Austria</p>
10.30 – 10.45 hrs	<p><b>11.05 Bifidobacterium Modulates The Immune Response In A Microsatellite Instability Colorectal Cancer Mouse Model</b>                  Patricia Vieira, Porto, Portugal</p>
10.45 – 11.00 hrs	<p><b>11.06 Bacterial Genotoxins Trigger Invadosome Formation Associated To Matrix Degradation</b>                  Lamia Azzi-Martin, Bordeaux, France</p>
<b>11.00 – 11.30 hrs</b>	<p><b>Coffee Break</b> <span style="float: right;">Room “Sala 4” - Exhibition &amp; Poster Area</span></p>

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<b>11.30 – 13.30 hrs</b>	<b>Session 12: Debates – Gastric cancer screening</b> Chair: Marcis Leja, Riga, Latvia & Miguel Areia, Coimbra, Portugal	<b>Room „Amphitheatre“</b>
11.30 – 11.50 hrs	<b>12.01 Optimal strategies for gastric cancer screening – targeted vs. population based</b> Iris Lansdorp Vogelaar, Rotterdam, Netherlands	
11.50 – 12.10 hrs	<b>12.02 What is the optimal age for screening?</b> Jan Bornschein, Oxford, United Kingdom	
12.10 – 12.30 hrs	<b>12.03 Is there a role for endoscopy and AI in gastric cancer screening</b> Mario Dinis Ribeiro, Porto, Portugal	
12.30 – 12.50 hrs	<b>12.04 Gastric cancer screening experience in Japan</b> Hidekazu Suzuki , Isehara, Japan	
12.50 – 13.10 hrs	<b>12.05 Helicobacter pylori Treatment and Gastric Cancer Risk After Endoscopic Resection of Dysplasia: A Nationwide Cohort Study</b> Hae Won Yoo, Bucheon, Korea	
13.10 – 13.30 hrs	<b>12.06 Helicobacter pylori treatment and risk of gastric cancer in large intervention trials in China</b> Wen Qing Li, Beijing, China	
<b>13.30 – 15.00</b>	<b>Lunch &amp; Poster Viewing</b>	<b>Room “Sala 4” - Exhibition &amp; Poster Area</b>
<b>15.00 – 17.00 hrs</b>	<b>Session 13: Updates in Helicobacter &amp; Microbiota</b> Chair: Annemieke Smet, Antwerp, Belgium & Ceu Figueiredo, Porto, Portugal	<b>Room „Amphitheatre“</b>
15.00 – 15.20 hrs	<b>13.01 Million Microbiome from Humans Project</b> Lars Engstrand, Sweden	
15.20 – 15.40 hrs	<b>13.02 Cortactin-dependent control of Par1b-regulated epithelial cell polarity in Helicobacter pylori Infection</b> Steffen Backert, Erlangen, Germany	
15.40 – 16.00 hrs	<b>13.03 Effect of faecal microbiota transplantation on multidrug-resistant bacteria and the resistome</b> Elizabeth Terveer, Leiden, Netherlands	
16.00 – 16.20 hrs	<b>13.04 The potential utility of chitosan micro/nanoparticles in the treatment of gastric infection</b> Cristina Martins, Porto, Portugal	
16.20 – 16.40 hrs	<b>13.05 Novel principles for cure of H. pylori infection</b> Peter Malfertheiner, Munich, Germany	
16.40 – 17.00 hrs	<b>13.06 Histamine Signaling Is Essential for Tissue Macrophage Differentiation and Suppression of Bacterial Overgrowth in the Stomach Cell</b> Ki Taek Nam, Seoul, Korea	
<b>17.00 – 18.00 hrs</b>	<b>Session 14: Closing Session</b> Chair: José Machado, Porto, Portugal & Francis Mégraud, Bordeaux, France	<b>Room „Amphitheatre“</b>
17.00 – 17.20 hrs	<b>14.01 Awarding of the Marshall and Warren Medal 2024 to Fatima Carneiro, Porto, Portugal</b> Introduction by José Machado, Porto, Portugal	





17.20 – 17.35 hrs	<b>14.02 Awarding of the EHMSG Oral and Poster Awards</b> Poster Jury: - Gianluca Ianiro, Rome, Italy - Christian Schulz, Munich, Germany - Sinead Smith, Dublin, Ireland
17.35 – 17.50 hrs	<b>14.03 Presentation of the EHMSG Journal by Francesco Franceschi, Italy</b>
17.50 – 18.00 hrs	<b>14.04 Presentation of the next meeting in Rome by Gianluca Ianiro, Italy</b> <b>Closing Remarks</b>



# European Helicobacter & Microbiota Study Group

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## Poster Presentations

**IMPORTANT NOTE: Posters are on display for two days. Posters need to be taken off by the author immediately at the end of the lunch break on Saturday, September 14, 2024 at 15.00hrs.**

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.

### Format

The usable surface on the poster board is 90 cm width x 150 cm height (portrait format).

Adhesive material will be made available.

### Mounting & Removal

Mounting of posters is possible on Friday, September 13, 2024 from 8.00 - 10.00 hrs.

Removal on Saturday, September 14, 2024, **immediately at the end of the lunch break** at 15.00 hrs.

Poster Presenters: you will find your **poster board number** in the author index of the online abstract book, as well as in the notification mail we have sent to you.

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

## Friday, September 13, 2024 | 12.45 - 14.00 hrs

Sala 4 - Exhibition & Poster Area

**Poster Session 01: Helicobacter 1** | Poster Numbers P01.01 - P01.12

Chair: Ivo Gomperts Boneca & Juozas Kupcinskas

**Poster Session 02: Helicobacter 2** | Poster Numbers P02.01 - P02.11

Chair: Constanza Camargo & Yaron Niv

**Poster Session 03: Helicobacter 3** | Poster Numbers P03.01 - P03.12

Chair: Emilie Bessède & Massimo Rugge

**Poster Session 04: Helicobacter 4** | Poster Numbers P04.01 - P04.13

Chair: Christian Schulz & Yoshio Yamaoka

**Poster Session 05: Helicobacter 5** | Poster Numbers P05.01 - P05.12

Chair: Javier Gisbert & Annemieke Smet

**Poster Session 06: Helicobacter 6** | Poster Numbers P06.01 - P06.12

Chair: Markus Gerhard & Josbert Keller

**Poster Session 12: Microbiota 1** | Poster Numbers P12.01 - P12.10

Chair: Petra Bacher & Gianluca Ianaro

**Poster Session 15: Cancer 1** | Poster Numbers P15.01 - P15.12

Chair: Joana Figueiredo & Ari Ristimäki

## Poster Presentations

Saturday, September 14, 2024 | 13.30 - 15.00 hrs

Sala 4 - Exhibition &amp; Poster Area

**Poster Session 07: Helicobacter 7** | Poster Numbers P07.01 - P07.12  
Chair: Theodore Rokkas & Kaisa Thorell

**Poster Session 08: Helicobacter 8** | Poster Numbers P08.01 - P08.112  
Chair: Steffen Backert & Luiz Coelho

**Poster Session 09: Helicobacter 9** | Poster Numbers P09.01 - P09.12  
Chair: Francis Mégraud & Arnaldo Riquelme

**Poster Session 10: Helicobacter 10** | Poster Numbers P10.01 - P10.12  
Chair: Colm O'Morain & Rocco Maurizio Zagari

**Poster Session 11: Helicobacter 11** | Poster Numbers P11.01 - P11.08  
Chair: David Graham & Sinead Smith

**Poster Session 13: Microbiota 02** | Poster Numbers P13.01 - P13.10  
Chair: Rui Ferreira & Mirjana Rajilić-Stojanović

**Poster Session 14: Microbiota 03** | Poster Numbers P14.01 - P14.07  
Chair: James Alexander & Lars Engstrand

**Poster Session 16: Cancer 02** | Poster Numbers P16.01 - P16.11  
Chair: Jan Bornschein & Marcis Leja

**Poster Session 17: Cancer 03** | Poster Numbers P17.01 - P17.12  
Chair: Wen Qing Li & Hidekazu Suzuki





## 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 room assistant 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:

It must in any case be handed over to the technician in the **respective session 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.



Friday, September 13, 2024

**14.00 - 15.00 hrs Industry Sponsored Satellite Symposium**

Room Amphitheatre

Chair: Colm O'Morain, Dublin, Ireland & Peter Malfertheiner, Munich, Germany

***H.pylori*, cancer risk and clinical decision making.**

Markus Gerhard, Munich, Germany

**Efficacy of probiotics on *H.pylori* eradication.**

Ye Chen, Guangzhou, China

**Diagnosis and treatment of *H.pylori*: The Hp LATAM Reg experience.**

Arnoldo Riquelme, Santiago, Chile

**How to best handle *H.pylori* antibiotic resistance in clinical practice.**

Christian Schulz, Munich, Germany



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## EHMSG Postgraduate Course

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## Registration Details

### Registration Fees in EURO

Payment received	until July 4, 2024	July 5 - August 20, 2024	On Site
Regular Participant	350,-	450,-	<b>550,-</b>
Young Scientists <35yrs	180,-	230,-	<b>280,-</b>
Students <30yrs	110,-	150,-	<b>180,-</b>
Industry Representatives	480,-	580,-	<b>680,-</b>
Members of the Paediatric Task Force	250,-	280,-	<b>310,-</b>
Combined PGC & EHMSG - Regular	480,-	580,-	<b>680,-</b>
Combined PGC & EHMSG - Young Scientists	280,-	330,-	<b>380,-</b>
Combined PGC & EHMSG - Students	220,-	250,-	<b>280,-</b>
Combined PGC & EHMSG - Industry	580,-	680,-	<b>780,-</b>
Combined PGC & EHMSG - Paediatric Task Force	350,-	380,-	<b>390,-</b>
Postgraduate Course ONLY	160,-	180,-	<b>410,-</b>
Welcome Reception   Thursday, September 12, 2024 <b>(Event fully booked)*</b>	---	---	---
Conference Dinner   Friday, September 13, 2024**	75,-	75,-	<b>75,-**</b>
Lunch Ticket (per day)***	25,-	25,-	not available on site

\* no fee but registration was mandatory. **(Event fully booked)**

\*\* 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** 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 respective deadlines**. Registering before July 5, 2024 resp. August 20, 2024 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 2024 website at [www.workshop.ehmsg.org](http://www.workshop.ehmsg.org) - see "General Information"

### Access the Conference Venue

See [www.workshop.ehmsg.org/venue](http://www.workshop.ehmsg.org/venue) for more information on how to access the conference venue "Fundação Eng. António de Almeida". A limited number of car parks are also available in the area of the foundation.



### 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 5, 2024: 50% refund                      - From July, 6, 2024: 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 close to the conference venue. Local currency (EUR) can also be obtained from banks and exchange bureaus.

### CME Credits

The "XXXVII<sup>th</sup> International Workshop on Helicobacter and Microbiota in Inflammation and Cancer" was granted a total of **14,5 European CME credits** (ECMEC) the Postgraduate Course on "Clinical outcomes of *H. pylori* infection - current management in 2024" was granted a total of **5,5 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 (EHMSG Postgraduate Course), Friday and Saturday (EHMSG Workshop) had to be pre-ordered and **cannot** be purchased on site. Lunch tickets are not refundable.

### Conference Venue

XXXVII<sup>th</sup> Workshop and Postgraduate Course of the EHMSG:

Fundação Eng. António de Almeida | Rua Tenente Valadim, 231/ 325 | 4100-479 Porto



### Cover Picture

Royalty-free stock photo ID: 294328388

### Currency

The official currency of Portugal is the Euro (EUR).

1 EUR = 0,85 GBP = 1,11 USD = 161 JPY = 0,95 CHF = 11,42 SEK = 7,46 DKK = 1,65 AUD = 1,51 CAD = 1,48 KRW  
as per date of printing

### Electricity Supply

Portugal uses the Type F plug. Type F electrical plugs used in Portugal are manufactured to the CEE 7/4 and CEE 7/7 standards and is commonly referred to as a Schuko plug. The line and neutral plug contacts for Portugal Type F plugs are two round pins with a 4.8 millimeter diameter.. Portugal operates on a 230V supply voltage and 50Hz. See: <https://internationalconfig.com/portugal-plugs.asp>

### 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 Portugal 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 2024 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 Registration Desk at the Conference venue

### **EHMSG Postgraduate Course**

Thursday, September 12, 2024: 07.30 – 17.30 hrs

### **EHMSG Workshop**

Friday, September 13, 2024: 07.30 – 19.00 hrs

Saturday, September 14, 2024: 08.00 – 16.30 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, will be removed and will not be kept nor mailed to the author after the meeting. See detailed information in the “scientific information” section on page 18 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 2024 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

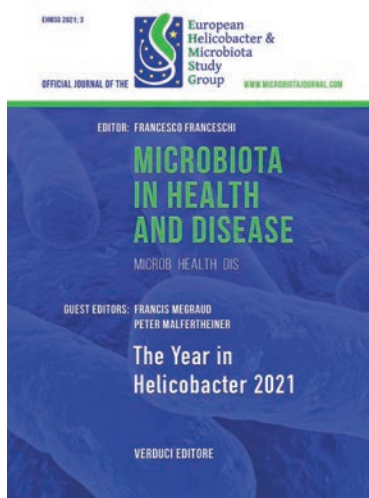
Should you have any questions, the congress staff will be pleased to help you.

## Taxis, Public Transportation, Information on Porto

Please see <https://www.workshop.ehmsg.org/about-porto>

## 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.



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For submissions please visit the website: <https://www.microbiotajournal.com>



## Networking Events

### Thursday, September 12, 2024, 17.45 hrs

#### Networking Event at the conference venue

*Free for registered participants, however registration for this event was mandatory.*

*Tickets will be collected onsite*

*A few tickets are still available onsite*



### Friday, September 13, 2024, 20.00 hrs

#### EHMSG Networking Evening at the Palacio da Bolsa

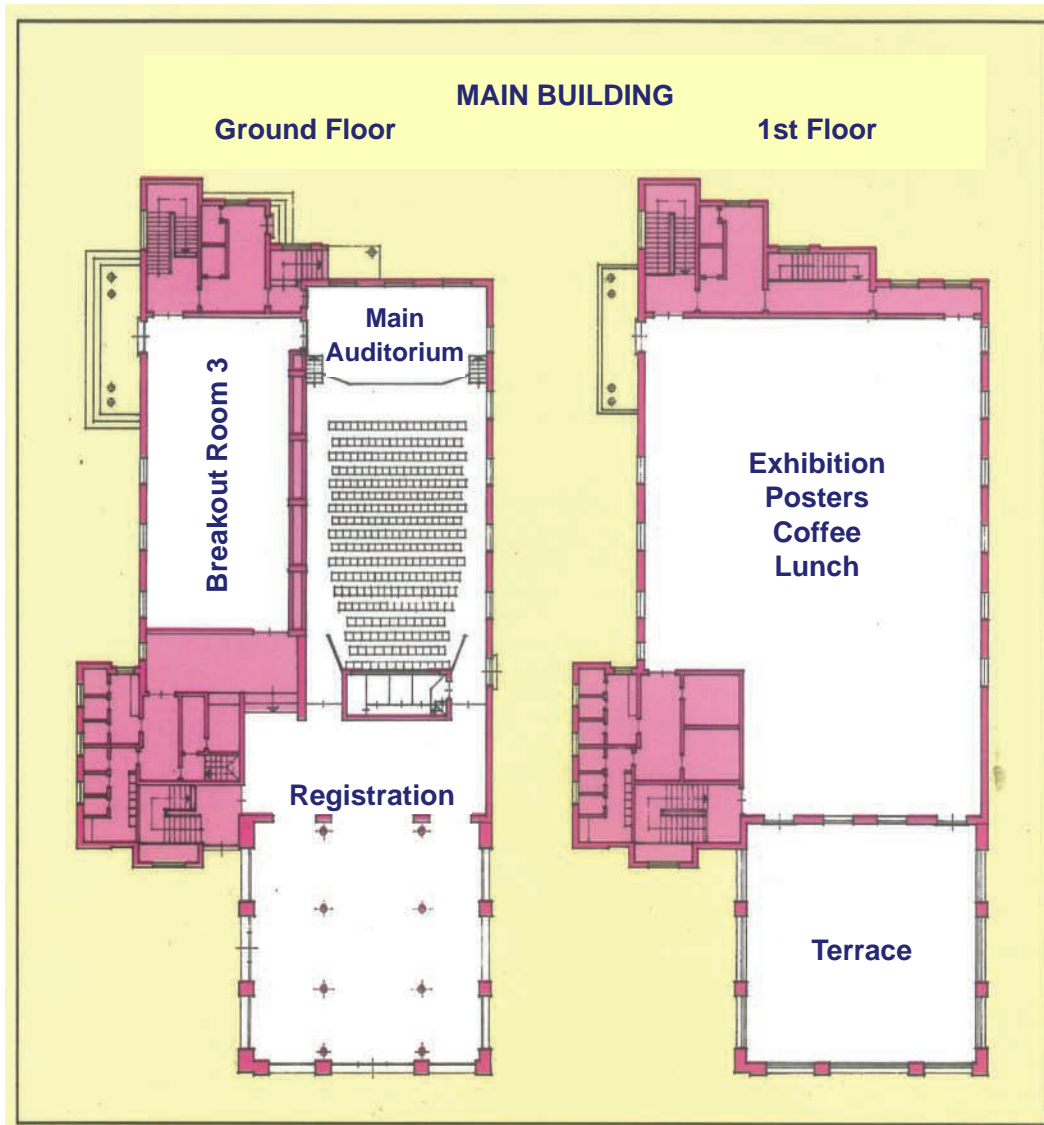
*A ticket is required and will be checked at the entrance - EUR 75,- per ticket*

*Bus departure from the venue at 19.15 hrs*

*A few tickets are still available for onsite purchase*



LOCATION MAP



Friday

Saturday

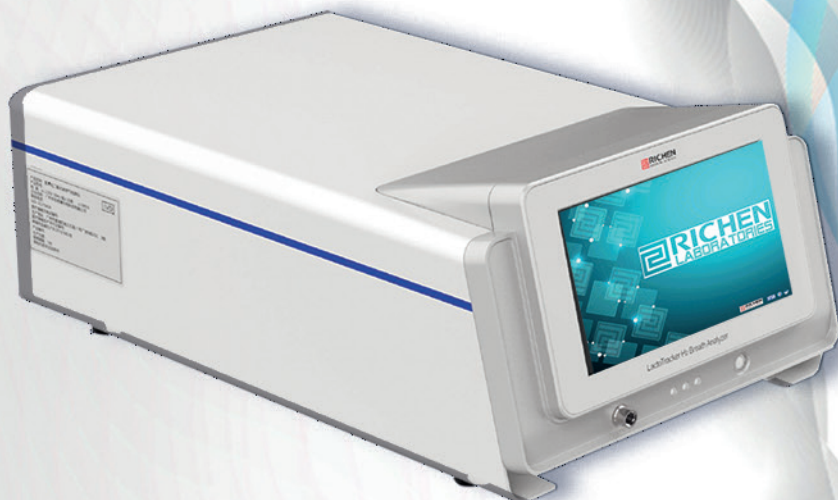
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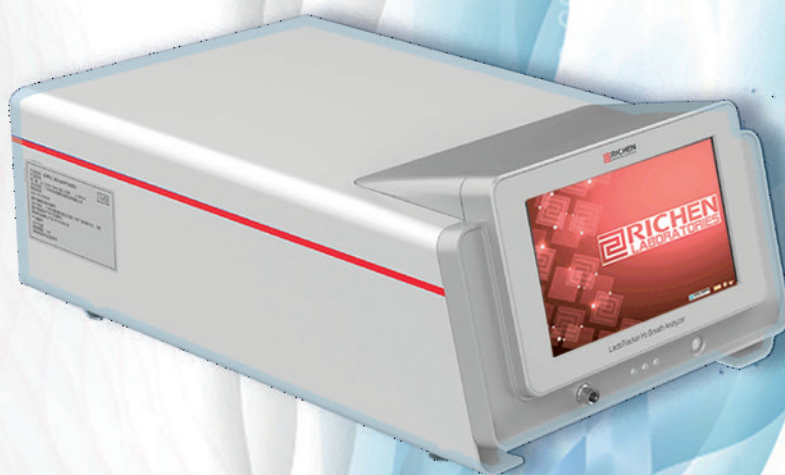




## *Lactotracker One H2 Breath test*

The Lactotracker H2 Breath test<sup>102</sup> has been developed to provide quick and reliable diagnosis of gastro-intestinal disorders measuring carbohydrate breakdown deficiencies and/or malabsorption. Particularly efficient for lactose intolerance screening, the Lactotracker 102 also gives good indication of small intestinal bacterial overgrowth and evaluates intestinal transit time. The electrochemical H<sub>2</sub> sensor with thermal compensation delivers a reliable, rapid and inexpensive system of measurement.

## *Lactotracker Plus H2 /CO2/CH4 Breath test*



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