



HGSC-2023 Sessions (preliminary scientific programme)

Keynotes:

- Martin Blaser, USA** *H. pylori* in the modern and post-modern ages
- Masanori Hatakeyama, Japan** *H. pylori* CagA, BRCAness, and gastric cancer

Sessions:

1. *H. pylori* and Carcinogenesis

#	Participant name, country	Confirmed title of the presentation
1	Richard Peek, USA	Metal and malignancy: How iron influences <i>H. pylori</i> -induced gastric carcinogenesis
2	Nina Salama, USA	<i>H. pylori</i> carcinogenesis: host and bug changes during stomach cancer development
3	Eliette Touati, France	Oncogenic properties of <i>H. pylori</i> infection and the USF1 transcription factor: impact in gastric carcinogenesis
4	Anne Müller, Switzerland	Murine gastric organoids as model systems for studying <i>H. pylori</i> -induced gastric carcinogenesis
5	Steffen Backert, Germany	<i>H. pylori</i> serine protease HtrA polymorphisms and gastric cancer signaling
6	Christine Varon, France	The hippo/YAP signalling pathway in <i>H.pylori</i> -induced carcinogenesis
7	Francesco Boccellato, UK	Stem-cell driven models to understand epithelial response to infections and cancer initiation
8	Markus Gerhard, Germany	<i>H. pylori</i> and colon cancer – from epidemiologic association to mechanistic insight

2. Genomics / Pathogenomics

1	Yoshio Yamaoka, Japan	<i>Helicobacter pylori</i> evolution and pathogenesis in Asia
2	Constanza Camargo, USA	The <i>Helicobacter pylori</i> Genome Project: Highlights of Primary Findings
3	Kaisa Thorell, Sweden	Establishing a Global <i>H. pylori</i> database, what can we learn from 10,000 genomes?
4	Daniel Falush, China	Ecotypes and pathotypes of <i>H. pylori</i>
5	Yoshan Moodley, South Africa	<i>H. pylori</i> and human migrations
6	Frank Maixner, Italy	<i>Helicobacter pylori</i> in ancient human remains
7	Sujay Chattopadhyay, India	Convergent mutations, truncation mutations, and <i>H. pylori</i> pathoadaptation



3. *H. pylori* host adaptation

1	Sina Bartfeld, Germany	<i>H. pylori</i> tropism to pit cells dependent on urea chemotaxis
2	Hitomi Mimuro, Japan	Host adaptation strategies of <i>H. pylori</i>
3	Manuel Amieva, USA	Microbial Hideouts in the epithelium link <i>H. pylori</i> persistence and pathogenesis
4	Raquel Mejías-Luque, Germany	<i>Helicobacter pylori</i> HopQ and CEACAM interaction: more than a binding affair
5	Ishizo Kobayashi, Japan	Adaptive Evolution in <i>H. pylori</i>

4. Bacterial virulence factors

1	Timothy Cover, USA	Structure and <i>in vivo</i> actions of the Cag Type IV secretion system
2	Carrie L. Shaffer, USA	The 'Ins and Outs' of <i>H. pylori</i> DNA transport through the cag T4SS
3	Jungheon Cha, Korea	Multi- <i>cagA</i> genotype and its amplification
4	Dionyssios Sgouras, Greece	CagA-dependent stromelysin expression in <i>H. pylori</i> infection
5	Karen Robinson, UK	<i>H. pylori</i> vacuolating cytotoxin A and intestinal metaplasia in the human gastric mucus

5. *H. pylori* and Microbiota

1	Peter Malfertheiner, Germany	Interaction of <i>H. pylori</i> with other bacteria in human gastric carcinogenesis
2	Christian Schulz, Germany	The role of other gastric microbiota than <i>H. pylori</i> for health and disease / for gastric carcinogenesis

6. Inflammation and innate immunity

1	Jutta Horejs-Höck, Austria	Unexpected effects of <i>Helicobacter pylori</i> -derived PAMPs on innate immune cells
2	Saskia Erttmann/Thomas F. Meyer, Germany	Mechanisms underlying inflammation and persistence of <i>H. pylori</i> infections
3	Silja Wessler, Austria	CagA functions in immune cells
4	Michael Sigal, Germany	Gastric Stem Cell responses to <i>H. pylori</i> Infection

7. *H. pylori* pathogenicity

1	Cynthia Sharma, Germany	Exploring small RNAs and small proteins in <i>H. pylori</i>
2	Georg Häcker, Germany	The initiation of mitochondrial signals by <i>Helicobacter pylori</i>
3	Joanna Skorko-Glonek, Poland	The C-terminal region of <i>Helicobacter pylori</i> SecA – a key domain for fine-tuning protein export

8. Treatment of *H. pylori* and gastric cancer

1	Keith Wilson, USA	Molecular Insights into <i>Helicobacter pylori</i> -induced Gastric Inflammation and Cancer: New Strategies for Intervention
---	-------------------	--



HGSC 2023 | 02–05 DECEMBER 2023

HELICOBACTER PYLORI GENOMICS, SIGNALING AND CARCINOGENESIS

CASTLE HIRSCHBERG | BEILNGRIES | GERMANY

9. non-pylori Helicobacter

1	Armelle Menard, France	The <i>H. hepaticus</i> cytolethal distending toxin modulates cell differentiation and elicits epithelial to mesenchymal transition
2	Bodo Linz, Germany	<i>H. smintopsis</i> from the Australian fat-tailed dunnart