



The International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms

Date: Nov 14th-19th, 2022

Host Organizers:

Chinese Association of Animal Science and Veterinary Medicine (CAAV)

Yangzhou University (YZU)

China Agricultural University (CAU)

National Institute for Communicable Disease Control and Prevention, Chinese Center for
Disease Control and Prevention (ICDC, China CDC)

Organizer:

Beijing Boyar Media Co., LTD

Chairmen:

Prof. Jiao Xinan Yangzhou University

Prof. Shen Jianzhong China Agricultural University

Prof. Zhang Jianzhong ICDC, China CDC

Organizing committee members:

HUANG Jinlin ZHANG Maojun SHEN zhangqi SHI Juan

TANG Yuanyue GAO Beile YOU Yuanhai WANG Yang

Conference secretary and Webinar service:

TANG Yuanyue WANG Biyong XIANG Hui ZHANG Ying ZHANG Suxing

Website:

<http://chro.bomeeting.net/en>

QR code for mobile participation:



Registration Fee:

For delegate: 1200RMB

For student: 800 RMB

CHRO Organizing Committee
China



Agenda

Day 1, Nov 14th, 2022

Poster Presentation			
Number	Title	Author	Institute
Antibiotics and Antimicrobial Resistance			
5579	Distribution characteristics of the <i>sabA</i> , <i>hofC</i> , <i>homA</i> , <i>homB</i> and <i>frpB-4</i> genes of <i>Helicobacter pylori</i> in different regions of China	Mengyang Fang	Nanjing Medical University
5643	Prevalence of <i>Campylobacter</i> spp. contamination in poultry, porcine, bovine, and ovine liver in Ireland	Olwen Golden	Department of Agriculture, Food and the Marine, Ireland
Epidemiology and Public Health			
5599	Antimicrobial resistance profile of a <i>Campylobacter jejuni</i> strain causing perimyocarditis	Beatriz Melero	University of Burgos
5561	Optimization for <i>Campylobacter</i> separation from different cleanliness samples in slaughterhouse with different combinations of antibiotics	Suxing Zhang	Yangzhou University
5598	<i>Campylobacter</i> spp. in Shellfish in Croatian	Andrea Humski	Croatian Veterinary Institute
Genomics, Proteomics, Glycomics and Other -Omics			
5565	<i>Campylobacter jejuni</i> flagellar regulatory protein FlhF is involved in the defense mechanism of oxidative stress	Ying Zhang	Yangzhou University
Molecular Sub-typing and Pathogen Surveillance			
5548	Evaluation of BioNumerics Core Genome and Whole Genome Multilocus Sequence Typing for <i>Campylobacter</i> Outbreak Detection	Lavin Joseph	CDC
5581	Capsular Genotype and Lipooligosaccharide Class Genomic Characterizations of <i>Campylobacter jejuni</i> From Food Animals in China	Xiaoqi Zang	Yangzhou University
5583	Phylogenetic analysis of <i>Campylobacter</i> species in a multi-host system from a wildlife-rural interface in Uganda	Valter Almeida	Molecular Epidemiology and Public Health Laboratory, Hopkirk Research Institute, Massey University
5518	Prevalence and diversity of <i>Campylobacter</i> carriage by migratory birds at three major habitats in China	Shanrui Wu	Qingdao University
Methods of Detection, Identification and Characterization			



5547	Two novel <i>Campylobacter</i> species from cat and sheep in China	Hairui Wang	ICDC, China CDC
5572	Isolation and Molecular Sub-typing of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> in China	Maojun Zhang	ICDC, China CDC
Pathogenesis and Host Adaptation			
5527	The Mla phospholipid transport system alter the <i>Campylobacter jejuni</i> outer membrane properties	Agnieszka Sałamaszyńska-Guz	Warsaw University of Life Sciences
5574	A family case infection and genomic characterization of <i>Campylobacter jejuni</i> associated with perimyocarditis	Irene Ortega Sanz	University of Burgos, Spain
4612	Diverse sensory repertoire of paralogous chemoreceptors Tlp2, Tlp3 and Tlp4 in <i>Campylobacter jejuni</i>	Bassam Elgamoudi	Institute for Glycomics
Host Interaction and Immunology			
5600	Phase variable genes identification in a <i>Campylobacter jejuni</i> strain causing perimyocarditis	Jordi Rovira	University of Burgos
Clinical Treatment of <i>Helicobacter</i> Infections			
4958	High-dose dual therapy versus culture-based susceptibility-guided therapy as a rescue regimen for <i>Helicobacter pylori</i> infection: a randomized controlled trial	Zhe Zhao	Department of Gastroenterology, Daping Hospital, the Army Medical University
5537	Successful application of <i>Helicobacter pylori</i> personalized treatment via novel gastric string test and qPCR	Xinyuan Han	Shenzhen Luohu People's Hospital
Taxonomy and Unique Biology of <i>Campylobacterota</i> species			
5540	Genetic Characteristics of Lipooligosaccharide (LOS) and Capsular Polysaccharide (CPS) of <i>Campylobacter jejuni</i> from Different Sources in China	Xiaoli Chen	ICDC, China CDC



Agenda

Day 2, Nov 15th, 2022

Time			Contents	Chairman	Host	
GMT+8	GMT-5	GMT+1				
13:30-14:00	0:30-1:00	6:30-7:00	Welcome and Opening Session	Prof. Jiao Xinan	Chinese Association of Animal Science and Veterinary Medicine (CAAV), Yangzhou University	
				Prof. Shen Jianzhong	China Agricultural University	
				Prof. Zhang Jianzhong	ICDC, China CDC	
14:00-14:10	1:00-1:10	7:00-7:10	Conference instruction	-	CHRO organizer	
Scientific Presentation						
Number	Time			Contents	Speaker	Institute
	GMT+8	GMT-5	GMT+1			
Invited Speaker						
	14:10-14:40	1:10-1:40	7:10-7:40	Global differences in <i>Campylobacter</i> epidemiology and genetics	Ben Pascoe	University of Oxford
Antibiotics and Antimicrobial Resistance						
4639	14:40-14:55	1:40-1:55	7:40-7:55	Geno- and phenotypic comparison of antimicrobial resistance in <i>Campylobacter</i> spp. isolates from Vietnam and Germany	Michael Zarske	German Federal Institute for Risk Assessment, Department Biological Safety, National Reference Laboratory for <i>Campylobacter</i>
4611	14:55-15:05	1:55-2:05	7:55-8:05	Quorum sensing and biofilm formation of <i>Campylobacter jejuni</i> are inhibited by decanoic and lauric acids	Shenmiao Li	McGill University



5555	15:05-15:15	2:05-2:15	8:05-8:15	Prevalence, Whole genome sequence and antimicrobial resistance of <i>Campylobacter</i> spp. Isolates in pets in Shenzhen	Changyan Ju	Nanshan Center for Disease Control and Prevention, Shenzhen, China
	15:15-15:25	2:15-2:25	8:15-8:25	Coffee break (Next CHRO video)		
Epidemiology and Public Health						
	15:25-15:45	2:25-2:45	8:25-8:45	Worldwide <i>Helicobacter pylori</i> Phage Study: Genome Analysis, Epidemiology, Clinical Data, until New Phage-based Medicine Candidate	Ricky Indra Alfaray	Department of Environmental and Preventive Medicine, Faculty of Medicine, Oita University
5563	15:45-16:00	2:45-3:00	8:45-9:00	Molecular Epidemiological Study on <i>Campylobacter</i> in the Fresh Chicken process in Chinese Commercial Kitchens	Honggang Lai	Yangzhou University
5590	16:00-16:20	3:00-3:20	9:00-9:20	Evidence on linking Bacterial Etiologies with stunted childhood growth and overgrowth of small intestinal bacterial taxa impacting vulnerable child gut health	Habib Bokhari	Kohsar University Murree
5536	16:20-16:45	3:20-3:45	9:20-9:45	Survival of different sequence types of <i>Campylobacter jejuni</i> and risks during handling in the kitchen	Ingrid Hansson	Swedish University of Agricultural Sciences
5511	16:45-16:55	3:45-3:55	9:45-9:55	Gull species as a source of <i>Campylobacter</i> in a densely populated urban area	Alicia Manzanares Pedrosa	Unitat mixta d'Investigació IRTA-UAB en Sanitat Animal. Centre de Recerca en



						Sanitat Animal (CReSA)
	16:55-17:25	3:55-4:25	9:55-10:25	Discussion		
Break						
Invited Speaker						
5649	18:30-18:50	5:30-5:50	11:30-11:50	Epigenome microevolution associated with DNA methyltransferases' sequence-specificity alteration in <i>H. pylori</i>	Masaki Fukuyo	Chiba University
5647	18:50-19:18	5:50-6:18	11:50-12:18	Pinpoint adaptive evolution emerging from >1000 genome comparison	Ichizo Kobayashi	University of Tokyo
Genomics, Proteomics, Glycomics and Other -Omics						
5553	19:18-19:40	6:18-6:40	12:18-12:40	Application of TraDIS to define the core essential genome of <i>C. jejuni</i> and <i>C. coli</i>	Emily Stoakes	University of Cambridge
4962	19:40-20:07	6:40-7:07	12:40-13:07	The pangenomics of <i>Campylobacter</i> populations isolated during poultry processing at three New Zealand processing plants	Patrick Biggs	Massey University
	20:07-20:20	7:07-7:20	13:07-13:20	Coffee Break (Next CHRO video)		
5644	20:20-20:44	7:20-7:44	13:20-13:44	Complementary Ribo-seq approaches map the translome and provide a small protein census in <i>Campylobacter jejuni</i>	Sarah Svensson	University of Würzburg
4702	20:44-21:08	7:44-8:08	13:44-14:08	A Stochastic, mathematical model for analysing phase variation induced phenotypic switching	Jonathan Holmes	University of Leicester
5542	21:08-21:19	8:08-8:19	14:08-14:19	Species Classification and Novel Plasmid	Guilan Zhou	ICDC, CDC China



				Identifications in <i>Arcobacter</i> <i>cryaerophilus</i> and <i>Arcobacter</i> <i>cryaerophilus</i> -like Organisms		
5554	21:19- 21:37	8:19- 8:37	14:19- 14:37	Host ecology and recombination in the <i>Campylobacter</i> genus	Evangelos Mourkas	University of Oxford
4967	21:37- 21:46	8:37- 8:46	14:37- 14:46	Identification and analysis of iron uptake systems in a large database of <i>C.</i> <i>jejuni</i> and <i>C. coli</i> isolates	Molly Webster	University of Leicester
5566	21:46- 21:53	8:46- 8:53	14:46- 14:53	Genome Detectives: The Power of Engaging Citizen Scientists in the Curation of Nucleotide Sequencing Data	Frances Colles	University of Oxford
5529	21:53- 22:01	21:53- 22:01	14:53- 15:01	Investigating the role of FlhF involved in flagellar synthesis in <i>Campylobacter</i> <i>jejuni</i>	Xiaofei Li	Yangzhou University
	22:01- 22:30	9:01- 9:30	15:01- 15:30	Discussion		



Agenda

Day 3, Nov 16th, 2022

Scientific Presentation						
Number	Time			Contents	Speaker	Institute
	GMT+8	GMT-5	GMT+1			
Invited speaker						
	13:30-13:59	0:30-0:59	6:30-6:59	<i>Helicobacter pylori</i> multi-cagA genotype	Jeong-Heon Cha	Yonsei University
	13:59-14:37	0:59-1:37	6:59-7:37	Contrasting the population structure of <i>Helicobacter pylori</i> and humans.	Daniel Falush	Shanghai Pasteur Institute
Risk Assessment and Control Strategies in The Industry						
4818	14:37-14:56	1:37-1:56	7:37-7:56	Control of <i>Campylobacter</i> concentrations during poultry processing at three New Zealand processing plants	Joanne Kingsbury	Institute of Environmental Science and Research
	14:56-15:10	1:56-2:10	7:56-8:10	Coffee break (Next CHRO video)		
5567	15:10-15:29	2:10-2:29	8:10-8:29	Detection of <i>Campylobacter</i> DNA in commercial chicks; implications for control on farms	Frances Colles	University of Oxford
5535	15:29-15:52	2:29-2:52	8:29-8:52	Production of <i>Campylobacter jejuni</i> in biofilms and sensitivity of various disinfectant substances	Ingrid Hansson	Swedish University of Agricultural Sciences
4836	15:52-16:04	2:52-3:04	8:52-9:04	Evaluation of different risk mitigation strategies for <i>Campylobacter</i> along the raw milk supply chain	Anna-Delia Herbstman	German Federal Institute for Risk Assessment, Department Biological Safety
Molecular Sub-typing and Pathogen Surveillance						
4965	16:04-16:14	3:04-3:14	9:04-9:14	Two <i>Campylobacteriosis</i> outbreaks might be caused by asymptomatic cook carrier	Ying Li	Beijing Center for Disease Prevention and Control
5595	16:14-16:22	3:14-3:22	9:14-9:22	Whole genome-based surveillance of German clinical <i>Campylobacter jejuni</i> isolates identifies dominant clusters	Sangeeta Banerji	Robert Koch-Institute
	16:25-16:55	3:25-3:55	9:25-9:55	Discussion		
Break						
	18:30-18:45	5:30-5:45	11:30-11:45	Chairman Report:	Xinan Jiao	Yangzhou University



				<i>Campylobacter</i> as a foodborne pathogen in poultry production		
Invited speaker						
	18:45-19:24	5:45-6:24	11:45-12:24	Sink or swim, <i>Campylobacter</i> survival in the intestine	Christine Szymanski	University of Georgia
Methods of Detection, Identification and Characterization						
4606	19:24-19:43	6:24-6:43	12:24-12:43	Rapid Identification of <i>Campylobacter jejuni</i> using Single-cell Raman Spectroscopy Combined with Conditional Generative Adversarial Network	Kaidi Wang	McGill University
4842	19:43-20:04	6:43-7:04	12:43-13:04	Determination of viable-but-non-culturable <i>Campylobacter jejuni</i> in chicken using quantitative PCR combined with propidium monoazide pretreatment	Jingbin Zhang	McGill University
	20:04-20:10	7:04-7:10	13:04-13:10	Coffee break (Next CHRO video)		
5512	20:10-20:19	7:10-7:19	13:10-13:19	Virulence and infectious assessment of a <i>Campylobacter jejuni</i> 63A isolated from California gull excreta	Jingrang Lu	USEPA
5588	20:19-20:28	7:19-7:28	13:19-13:28	<i>Campylobacter</i> in the database of knowledge gaps	Ingrid Hansson	Swedish University of Agricultural Sciences
5562	20:28-20:37	7:28-7:37	13:28-13:37	Phenotypic Characterization of Clinical <i>Campylobacter jejuni</i> Isolates	Irene Ortega Sanz	University of Burgos
4954	20:37-20:52	7:37-7:52	13:37-13:52	Platforms of Gastrointestinal-bacterial Ultrasensitive Native-sample Detection with Aptasensors in Modularization (GUNDAM): The Opening Chapter	Zhe Chi	Ocean University of China
	20:55-21:25	7:55-8:25	13:55-14:25	Discussion		



Agenda

Day 4, Nov 17th, 2022

Scientific Presentation						
Number	Time			Contents	Speaker	Institute
	GMT+8	GMT-5	GMT+1			
Invited Speaker						
	13:30-13:58	0:30-0:58	6:30-6:58	<i>Campylobacter</i> -host interaction CDT	Zhen He	Sun Yat-sen University
5651	13:58-14:39	0:58-1:39	6:58-7:39	<i>Campylobacter</i> pathogenesis and the chicken microbiome	Ozan Gundogdu	London School of Hygiene and Tropical Medicine
Pathogenesis and Host Adaptation						
	14:39-14:53	1:39-1:53	7:39-7:53	Identification of Flagella and Outer Membrane Protein Genes associated with Biofilm Formation	Kartika Afrida Fauzia	Department of Environmental and Preventive Medicine, Oita University Faculty of Medicine
	14:55-15:05	1:55-2:05	7:55-8:05	Coffee break (Next CHRO video)		
5530	15:05-15:28	2:05-2:28	8:05-8:28	Contributions of phase variation to chickens colonisation, gastrointestinal spread and liver invasion in chickens by <i>Campylobacter jejuni</i>	Chris Bayliss	University of Leicester
4608	15:28-15:39	2:28-2:39	8:28-8:39	The <i>Campylobacter jejuni</i> Type VI secretion system displays roles in intrabacterial antagonism and human host-cell interaction.	Zahra Omole	London School of Hygiene and Tropical Medicine
5539	15:39-15:52	2:39-2:52	8:39-8:52	Genetic and Phenotypic Variation of <i>Campylobacter jejuni</i> NCTC11168 during Laboratory Passage	Xiaoli Chen	ICDC, CDC China
Physiology and Regulation						
5580	15:52-15:59	2:52-2:59	8:52-8:59	<i>Campylobacter jejuni</i> energy taxis to L-fucose	Bibi Zhou	University of Georgia
Host Interaction and Immunology						



4882	15:59-16:21	2:59-3:21	8:59-9:21	The glycoconjugate vaccine against <i>Campylobacter jejuni</i>	Harald Nothhaft	University of Alberta
4837	16:21-16:30	3:21-3:30	9:21-9:30	<i>Campylobacter jejuni</i> induces the unfolded protein response in human intestinal epithelial cells	Geunhye Hong	Department of Infection Biology, London School of Hygiene and Tropical Medicine
	16:30-17:00	3:30-4:00	9:30-10:00	Discussion		
Break						
	18:30-19:05	5:30-6:05	11:30-12:05	Chairman report: 40 years of <i>Helicobacter pylori</i> research-China contributions and progresses	Yuanhai You, Jianzhong Zhang	ICDC, CDC China
Invited speaker						
	19:05-19:33	6:05-6:33	12:05-12:33	Interpretation for <i>Helicobacter pylori</i> ¹³ C-Urea breath test with infrared spectroscopy	Weihong Wang	Peking University First Hospital
5650	19:33-20:01	6:33-7:01	12:33-12:01	Host and Bug Changes During <i>H. pylori</i> -driven Gastric Metaplasia and Dysplasia	Nina Salama	Fred Hutchinson Cancer Research Center
	20:05-20:15	7:05-7:15	12:05-12:15	Coffee break (Next CHRO video)		
5646	20:15-20:48	7:15-7:48	12:15-12:48	Isolation and characterization of non- <i>Helicobacter pylori</i> <i>Helicobacter</i> species infecting human stomach	Emiko Rimbara	National Institute of Infectious Diseases, Tokyo
Clinical Treatment of <i>Helicobacter</i> Infections						
4828	20:48-20:55	7:48-7:55	12:48-12:55	<i>Helicobacter pylori</i> : Does asymptomatic infection mean no gastroscopic lesions?	Ting Cai	The Third Xiangya Hospital of Central South University
	20:55-21:06	7:55-8:06	12:55-13:06	Comprehensive Study of <i>Helicobacter pylori</i> Genomic Islands and Their Correlation to Gastric Diseases, Phylogenetic Pattern	Batsaikhan Saruuljavkhlan	Oita University
	21:10-21:40	8:10-8:40	13:10-13:40	Discussion		



Agenda

Day 5, Nov 18th, 2022

Scientific Presentation						
Number	Time			Contents	Speaker	Institute
	GMT+8	GMT-5	GMT+1			
	13:30-13:55	0:30-0:55	6:30-6:55	Chairman Report: Species shift from <i>C. jejuni</i> to <i>C. coli</i>	Jianzhong Shen	China Agricultural University
Invited speaker						
5648	13:55-14:10	0:55-1:10	6:55-7:10	Genome-wide association study of gastric cancer- and duodenal ulcer-derived <i>Helicobacter pylori</i> strains reveals discriminatory genetic variations and novel oncoprotein candidates	Koji Yahara	National Institute of Infectious Diseases, Tokyo
5654	14:10-14:43	1:10-1:43	7:10-7:43	The prophages of <i>Helicobacter pylori</i>	Filipa Vale	Faculty of Pharmacy, Universidade de Lisboa
Taxonomy and unique biology of <i>Campylobacterota</i> species						
4955	14:43-14:51	1:43-1:51	7:43-7:51	<i>Campylobacter oralis</i> sp. nov., a redefined novel <i>Campylobacter</i> species containing IBD-associated plasmids and csep1 gene	Li Zhang	University of New South Wales
	14:55-15:05	1:55-2:05	7:55-8:05	Coffee break (Next CHRO video)		
Evolution and ecology: new phylum <i>Campylobacterota</i>						
5573	15:05-15:26	2:05-2:26	8:05-8:26	Prevalence and Genetic Characteristics of <i>Arcobacter</i> spp. in China	Maojun Zhang	ICDC, China CDC
5509	15:26-15:50	2:26-2:50	8:26-8:50	The Evolutionary Path of Chemosensory and Flagellar Macromolecular Machines in <i>Campylobacterota</i>	Beile Gao	South China Sea Institute of Oceanology, Chinese Academy of Sciences
4798	15:50-16:13	2:50-3:13	8:50-9:13	Evolutionary Principles of Bacterial Signaling Capacity and Complexity	Ran Mo	South China Sea Institute of Oceanology, Chinese Academy of Sciences
Interaction with microbiota and phage						
4643	16:13-16:38	3:13-3:38	9:13-9:38	Deciphering the association of cecal microbiota with	Jinji Pang	Iowa State University



				<i>Campylobacter</i> colonization status in broiler chickens		
5645	16:38- 16:55	3:38- 3:55	9:38- 9:55	<i>Campylobacter</i> and phage control method in poultry production	Yuanyue Tang	Yangzhou University
	17:00- 17:30	4:00- 4:30	10:00- 10:30	Discussion		
Break						
Invited speaker						
	18:30- 18:56	5:30- 5:56	11:30- 11:56	<i>Helicobacter pylori</i> uses L-lactate to promote complement resistance and achieve successful gastric colonization	Karen Ottemann	UC Santa Cruz
	18:56- 19:36	5:56- 6:36	11:56- 12:36	Checks and balances: direct interaction of small RNAs CjNC140 and CjNC110 optimizes expression of key pathogenic phenotypes of <i>Campylobacter jejuni</i>	Amanda Kreuder	Iowa State University
5652	19:36- 20:12	6:36- 7:12	12:36- 13:12	New Insights into Mechanisms that Promote <i>H. pylori</i> -Induced Gastric Cancer	Richard M Peek	Vanderbilt University
	20:12- 20:43	7:12- 7:43	13:12- 13:43	With <i>H. pylori</i> in the stomach and around the world	Kaisa Thorell	University of Gothenburg
	20:43- 20:59	7:43- 7:59	13:43- 13:59	<i>Helicobacter pylori</i> Immunoproteomics Profiles in Gastric Cancer and Intestinal Metaplasia	Constanza Camargo	NIH/NCI
5601	20:59- 21:20	7:59- 8:20	13:59- 14:20	The prophages of the genus <i>Helicobacter</i>	Filipa Vale	Faculty of Pharmacy, Universidade de Lisboa
5655	21:20- 21:36	8:20- 8:36	14:20- 14:36	Acetylome analysis reveals diverse functions of lysine acetylation in human pathogen <i>Helicobacter pylori</i>	Desirazu N Rao	Department of Biochemistry Indian Institute of Science
	21:40- 22:10	8:40- 9:10	14:40- 15:10	Discussion		