conferenceseries.com

49th World Congress On

Microbiology

June 15-16, 2020
London, UK



SCIENTIFIC PROGRAM

Title: BioH2 production in a synthetic bacterial consortium: How QS molecules control interactions between bacterial species with concomitant changes in the distribution of metabolic

Marie Thérèse Giudici-Orticoni
Mediterranean Institute of Microbiology, France

Formation of multi-species communities allows nearly every niche on earth to be colonized. Exchange of molecular information among neighbouring bacteria in such communities is crucial for the bacteria to thrive. Yet the principles controlling these inter-species interactions are poorly defined. To shed light on them, we developed a synthetic microbial consortium with two anaerobic bacteria, Clostridium acetobutylicum and Desulfovibrio vulgaris Hildenborough . these 2 bacterai can be found together in Nature involved in anaerobic digestion of organic waste matter nd in consequence in BIO-H2 production.

Title: Comparison study on host plant growth promotion by different Metarhizium species

Xinggang Liao
Guizhou Education University, China

Metarhizium spp. is a kind of important entomopathogenic fungi, which has been widely applied as biological control agents in China and rest of the world. Besides killing target insects, these fungi could also survive in soils in natural environment. Partial strains could even colonize host plant root during saprophytic phase and some of them are able to promote host plants growth. Here, we tested the rhizosphere competence among different Metarhizium species (M. robertsii - Mr2575, Mr23

Title: Comparative genomics of E. coli isolated from adult and paediatric patients with inflammatory bowel disease

M Das Gupta
Australian National University, Australia

Several lines of evidence implicate bacteria in the pathogenesis of inflammatory bowel disease (IBD), and *Escherichia coli* is one of the leading candidate triggers. Our aim was to identify genes of E. coli associated with IBD. This study involved whole genome comparisons of 179 E. coli strains, isolated from 64 Crohn's disease (CD) patients, 18 ulcerative colitis (UC) patients, and 19 controls. These isolates were obtained from different tissues and sources, such as aphthous ulcers, lymph nodes and intestinal mucosa.

SPEAKER SLOTS AVAILABLE

Title: Modulation of the immune response and infection pattern to Leishmania donovani in visceral leishmaniasis due to arsenic exposure: An in vitro study

Shyam Narayan
Indian council of medical research

The arsenic contamination of ground water in visceral leishmaniasis (VL) endemic areas in Bihar, India leads to human exposure through drinking water. Possibly, the consumed arsenic (As) accumulates in the tissues of VL patients, who subsequently internalize intracellular amastigotes to confer resistance against chemotherapy to the parasite, leading to modulation in the host's immune response.

Title: High-Throughput Screening identifies novel small-molecule compounds that enhance aminoglycosides activity against bacteria

Venice H.T. Iu
University of Hong Kong

Aminoglycosides is one of the oldest class of antibiotics. Its history started with the discovery of Streptomycin, the first-in-class antibiotic, by Selman Waksman in 1944. However, its usefulness was highly eroded by the emerging resitance in recent years. The conventional strategy of developing novel antibiotics leads to selection of resistant strains, rendering new drugs ineffectiveness. Thus, rejuvenating the therapeutic potential of existing antibiotics offers a rational yet novel strategy.

Title: Isolation and characterization of Rhizosphere Mycoflora in some agricultural crop plants

Ratageri R.H
Govt Science College

Rhizosphere is a soil ecological region where soil is subjected to specific influence by plant root due to the interface. The great array of root- microbe interactions results in the development of a dynamic environment known as the rhizosphere where microbial communities also interact. The differing physical, chemical, and biological properties of the root – associated soil compared with those of the root – free bulk soil

SPEAKER SLOTS AVAILABLE

Title: Enhanced removal of hydrocarbon contents by Pseudomonas aeruginosa and Alcaligenes faecalis co-culture isolated from spent engine oil polluted soil

Adeleye, A.O
Federal University Dutse

This study was staged to assess the bacterial degradation of total petroleum hydrocarbon (TPH) and polycyclic aromatic hydrocarbon (PAHs) contents of spent engine oil (SEO) contaminated soil through the employment of Pseudomonas aeruginosa and Alcaligenes faecalis co-culture isolated from spent engine oil polluted soil from Dutse mechanic village, Nigeria. About 1.5 kg of autoclaved soil was artificially contaminated with SEO at three levels.

Title: Antibiotic Susceptibility Pattern of Salmonella Isolated from Enteric Fever Suspected Patients

Bijayata Shrestha
HAMS Hospital

Enteric fever is one of the most common diseases encountered worldwide and is endemic in Nepal. This study was conducted to access antibiotic susceptibility pattern of Salmonella isolates from culture positive cases of enteric fever.Altogether 505 blood samples were collected from patients clinically suspected of enteric fever attending HAMS Hospital. All blood samples were cultured by BACTEC method and sub cultured in blood agar and MacConkey agar plates.

Title: Acid and salt tolerance of lactic acid bacteria isolated

Alazar Essayas Nebyou
Sharda university school of basic science and research

Lactic acid bacteria (LAB) are the main part of probiotics, intestinal microflora, and dairy products which exhibit to survive in distinct environments. Milk samples were collected from local dairy farms. Samples were collected using sterile test tubes and transported to a laboratory in the icebox for further biochemical characterization. Gram test and Catalase activity was studied after distinct colonies was sub cultured to pure colonies following standard gram and catalase test protocols.

SPEAKER SLOTS AVAILABLE

Title: Halophile: an essential tentacle of industrial Biotechnology

Ekpo Steve
BIOLOGICAL SCIENCES
COLLEGE OF EDUCATION

Focus on microbial – based production seeks to curb the predicament of pollution and high consumption of oil resulting from petroleum based production. Industrial biotechnology aims to complete as a stronger alternative ensuring environmental friendly microbial based production. However, the high cost of bioprocessing is a major drawback and therefore new approaches must be developed to overcome this challenge.

Title: Prevalence of hepatitis c virus infection among pregnant women attending ibb specialist hospital minna, niger state, Nigeria

Baba, J
Ibrahim Badamasi
Babangida University

This study was carried out in other to determine the Prevalence of Hepatitis C Virus infection among pregnant women attending IBB Specialist Hospital Minna, Niger State, Nigeria. A total of hundred (100) pregnant women were screened for HCV infection, using third generation ELISA diagnostic kit. Questionnaires were administered to the respondents to obtain their socio- demographic data and possible risk factors for HCV infection. Overall result indicated that seven (7) out of 100 participants were tested positive (7%), while the remaining ninety-three (93) were negative (93%)

Title: Infectious diseases in the chlef region

Hadjer Sadoud H
H. Benbouali University of
Chlef

Meningitis is a major public health concern. They are mainly caused by three germs Neisseria meningitidis, Streptococcus pneumoniae and Haemophilus influenzae.Meningitis affects all regions of the world, but is usually considered as a scourge of underdeveloped countries because of the frequency of epidemics and considerable mortality, especially among children. Despite their severity, which is cause for concern, very few epidemiological data have been produced, particularly in Algeria.

SPEAKER SLOTS AVAILABLE

Title: Therapeutic effects of Enantia chlorantha (Annonaceae) Stem Bark extracts in salmonella Typhi-induced rats

Merline Namekong Djimeli
University of Dschang

Bacteria are responsible for a large number of diseases worrying the world today. Medicinal plants have always been used by poor communities of the African continent as an alternative for the treatment of those diseases. Typhoid fever is one of those diseases caused by salmonella. Thus, the aim of this study was to investigate the in vivo *antisalmonellal* properties of medicinal plant called *Enantia chlorantha*. During this study, Salmonella typhi-infected rats daily received orally the various doses of 95% ethanolic extract of *E.chlorantha* stem bark (9.16, 36.5 and 73 mg/kg bw) or oxytetracyclin (20 mg/kg) for 9 days.

Title: Phytochemical And Antibacterial Property of Finger Millet (Eleusine coracana) on Some Selected Clinical Bacteria

Ogbeba J
Federal Polytechnic Bauchi

Finger millet in northern Nigeria was subjected to phytochemical screening using standard procedures. The agar well method was used to test the antibacterial activities of methanolic and aqeous (combined) extracts of the grain on Salmonella typhi, Escherichia coli, Pseudomonas aeruginosa and Staphylococcus aureus. The result of the antimicrobial activity as indicated by zone of inhibition ranged from 1-8mm for different extract concentrations.

Title: Crude Oil Degradation Potential of Parent and X-Ray Treated Isolates from Automobile Spent-Oil Polluted Soils in Abraka, Nigeria

Akpomie O
Delta State University

Mutation has been exploited as a means of improving strains for a specific purpose in industrial processes such as bioremediation. The induction of mutation may be achieved in microorganisms through exposure to X-rays. Parent isolates and X-ray-exposed isolates from automobile-spent oil contaminated soil were investigated for ability to degrade crude oil for future use in the remediation polluted environment.

SPEAKER SLOTS AVAILABLE

Title: Extended-spectrum β-lactamases producing multidrug resistant E. coli among dogs, cats and their owners in Pakistan

Rana Muhammad Abdullah
University of Agriculture

Infections caused by Multi Drug Resistant (MDR) *E. coli* strains are common both in humans and animals. In particular, the pet animals have been considered as a potential carrier of MDR *E. coli*. Therefore, this study was designed to detect the ESBL producing *E. coli* isolates in companion animals, their owners and veterinary professionals. A total of 105 rectal swabs from pets (n=45), their owners (n=45) and veterinary professionals (n=15) were screened for the presence of ESBL producing *E. coli*, MDR and their genetic relatedness.

Title: Comparative study of dry-loop mediated isothermal amplication fluorescence smear microscopy and culture for the diagnosis of tuberculosis

Sabina K.C
Shi-Gan International College of Science and Technology

Tuberculosis (TB) is a chronic infectious disease caused by Mycobacterium tuberculosis and still constitutes a major public health problem in the world. There are various methods for the diagnosis of tuberculosis which includes isolation and identification of bacteria (smear microscopy and bacterial culture), tuberculin skin test (immunological test), chest radiography and molecular biological test. Smear microscopy remains most practical test available in resource limited setting for tuberculosis diagnosis.

Title: Identification of pathogenic Gram-negative bacteria by biosensors

Yousef Alaee Mollabashi
Islamic Azad University

Bacteria have different types and some of them are essential for human life and others cause problems such as illness and death and financial loss. The best way to prevent illness or prevent the patient from becoming ill is to identify pathogenic bacteria in the patient's body for drug administration and precise treatment, or even before entering the body in an infected environment. There are common methods for identifying pathogenic bacteria but for some reasons such as low speed, low accuracy, low susceptibility to contamination, high cost, etc. cause problems in identifying the infection.

SPEAKER SLOTS AVAILABLE

Title: Detection of a novel mutation G511T in the 530 loop in 16S rRNA in multi drugs resistant Mycobacterium tuberculosis isolated from Sudanese patients

Yousif Mohammed Alfatih
Sudan International

Tuberculosis (TB) is a bacterial disease considered as a global public health emergency by the World Health Organization (WHO) since 1993. In Sudan, MDR-TB represents a growing threat and one of the most important challenges that faced national tuberculosis program to establish a comprehensive multidrug-resistant tuberculosis management system. To characterize the diversity and frequency of mutations in Sudanese MDR-TB strains isolated from Wad Madani

Title: Microbiology is the major industry for the development of health, basic need of daily life, create employment, generate income, stronger economy, reducing financial crises, global Poverty and hunger in the developing countries of the world particularly in south Asia

Muhammad Usman

The aim of presentation consist of Microbiology, employment, income, economy, crises, health, hunger and poverty were studied and reported that Microbiology is the major industry for the development of health, basic need of daily life, create employment, generate income, stronger economy, reducing financial crises, global Poverty and hunger in the developing countries of the world particularly in south Asia. The study reported that microbio means microorganisms, logy means study.

Title: Antibacterial effect of TiO2 and ZnO vs Ag nanoparticles on some pathogenics and phytopathogenics bacteria

Selma Allouache
Université de Bejaia

Bacterial resistance to antibiotics has prompted researchers to turn to alternative solutions. One of these solutions uses reaction chemistry that produces antimicrobial coatings on desired surfaces with significant benefits. The antibacterial activities of some nanoparticles make them attractive candidates as new agents against pathogenic bacteria. In the present work, antibacterial effects of nanoparticles are measured with cylinder diffusion technique, liquid and agar nutrient medium are used for bacterial culture.

SPEAKER SLOTS AVAILABLE

Title: Pathotyping and beta-lactamase genes among cefotaxime resistant

Adegoke Anthony Ayodeji
University of Uyo

The World Health Organization (WHO) recently classified *Enterobacteriaceae* resistance to third-generation cephalosporin into the group of pathogens with critical criteria for future research. A study to assess the antibiogram and beta-lactamase genes among the cefotaxime resistant *E. coli* (CREc) from a South African wastewater treatment plant (WWTP) was conducted using standard phenotypic and molecular biology characterization methods.

Title: Occurrence and Pathogenicity of Some Fungi Isolated from Kanawa Forest Soil In Gombe State, Nigeria

Haruna U.S
Federal polytechnic Bauchi

The increased use of conventional chemical pesticides over the years has resulted to an adverse effect on the environment and in the destructions of non-target organisms. Agency for Toxic Substances and Disease Registry (ATSDR) revealed that pesticides: Aldrin & Dieldrin previously used to control termites among other insect pests are probable human carcinogens (Anderson, 2007. A total of two Entomopathogenic Fungi species (Beauveria bassiana,and Metarrhizia anisopliae) were isolated both from insect cadavers and the soils within the forest environment ,with the following percentages of occurences Beauveria bassiana (44.4%) and Metarrhizia anisopliae (27.2%).

Title: Prediction of environmental indicators in land leveling using

Isham Alzoub
University of Tehran

Land leveling is one of the most important steps in soil preparation for agricultural and other purposes. . New techniques based on artificial intelligence, such as Artificial Neural Network, integrating Artificial Neural Network and Imperialist Competitive Algorithm (ICA-ANN), or Genetic Algorithms (GA-ANN), or Particle Swarm Optimization (PSO-ANN) have been employed for developing predictive models to estimate the energy related parameters and the results were compared to SPSS and Sensitivity Analysis results.

SPEAKER SLOTS AVAILABLE

DAY 1
Monday,15th June, 2020

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On:	**Talks On:**
Bacteriology	Virology
Bacterial Pathogens and Associated Diseases	Viral Pathogens and Associated Diseases
Mycology	Phycology
Fungal Pathogens and Associated Diseases	Nematology & Protozoology

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On:	**Talks On:**
Medical Parasitology	Applied & Environmental Science
Antimicrobial Agents & Resistance	Microbial Cytology, Microbial Physiology & Recombination DNA
Clinical Infections & Vaccines	Microbial Ecology & Evolution
Clinical & Public Health Microbiology	Molecular Microbiology

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers	Workshop

DAY 2
Tuesday,16th June, 2020

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On:	**Talks On:**
	Cellular Microbiology	Food Microbiology
	Systems Microbiology	Soil Microbiology
	Industrial Microbiology	Water Microbiology
	Microbial Biotechnology and Future Bioindustries	Aquatic & Marine Microbiology

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On:	**Talks On:**
	Veterinary Microbiology	Agriculture & Forest Microbiology
	Plant Pathology & Microbiology	Profession of Microbiology

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

PAST AFFILIATES

PAST AFFILIATES

Elisa Bona
Università del Piemonte Orientale , Italy

lidia sas
Research Institute of Horticulture,Poland

Jose Inaki Alava Marquinez
Basque Culinary Center –Mondragon University SPAIN, Spain

Joachim Wink
Helmholtz Centre for Infection Research, Germany

Ilonka Zsolt Fradera
Medical Department Ferrer Internacional S.A. , Barcelona, Spain

Ya Hao
Chinese Academy of Agricultural Sciences, P.R.China

Patrizia Cesaro
Università del Piemonte Orientale, Italy

Andrea Puskarova
Slovak Academy of Sciences, Slovakia

Sonia Lozano
GlaxoSmithkline R&D (GSK) Tres Cantos, Madrid, Spain

Gerardo Gonzalez-Rocha
Universidad de Concepción, Chile

Rodrigo Pulgar
Universidad de Chile, Chile

Saran Promsai
Silpakorn University, Thailand

Dinka Mandakovic
Universidad de Chile, Chile

Joanne Alava Doncel
Basque Culinary Center, Spain

Pasquale Marmo
University of Rome , Italy

Sarina Tsui
University of Sao Paulo, BRAZIL

Lijuan Liu
Chinese Academy of Inspection and Quarantine, China

hu kongxin
Chinese Academy of Inspection and Quarantine, China

fang zhiqiang
Chinese Academy of Inspection and Quarantine, China

Byungjoo Lee
Chungnam Agricultural Research & Extension Services, South Korea

Ashraf Osman Abdellatif Mohamed
Karary University, Khartoum, Sudan

Amber Hameed
University of Northampton, UK

Da Teng
Chinese Academy of Agricultural Sciences, China

PAST AFFILIATES

PAST AFFILIATES

Fernando de la Calle
PharmaMar, Spain

Rong Murphy
Maple Leaf Farms, USA

Natalija Sverchkova
Belarus National Academy of Sciences, Belarus

Linda K Medlin,
Marine Biological Association, UK

Mariateresa Volpicella
Bari University, Italy

John Alderete
Washington State University, USA

Mihai Nita-Lazar
National Research and Development Institute for Industrial Ecology-ECOIND, Romania

Shaukat Iqbal Hashmi
National Aquaculture Group, Saudi Arabia

Marie Filteau
Laval University, Canada

Alejandro Garrido-Maestu
International Iberian Nanotechnology Laboratory, Portugal

Rui Feng Mao
Guangxi University, China

Maria Turtoi Dunarea de Jos
University of Galati, Romania

Amparo Gamero
Institute of Food Science and Technology– Spanish Research Council, Spain

Zhongtian Qi,
Second Military Medical University, China

Olga A. Kudryavtseva
Lomonosov Moscow State University, Russia

Alla Nikolaevna Nozhevnikova,
Federal Research Center of Biotechnology of the Russian Academy of Sciences, Russia

Belen Guijarro
National Institute for Agriculture and Food Research, Spain

Jory Lange
Robins Cloud, USA

Santiago Benito
Polytechnic University of Madrid, Spain

Ala Mohan,
The New Zealand Institute for Plant & Food Research Limited, New Zealand

Phillipe P Minnaar
Agricultural Research Council, South Africa

Michela Favretti
Istituto Zooprofilattico Sperimentale delle Venezie, Italy

Margit Olle
Estonian Crop Research Institute, Estonia

Zhu Lixia
NNSFC Foundation, China

Sanin Musovic
Danish Technological Institute, Life Science, Denmark

PAST AFFILIATES

PAST AFFILIATES

Iris Yedidia,
Plant Sciences – Agricultural Research Organization, Volcani Center, Israel

David Sartory
SWM Consulting Ltd, UK

Sanin Musovic
Danish Technological Institute, Denmark

Rasih Felek,
Akdeniz University Hospital Central Laboratory, Turkey

Tugce Ulutasdemir,
Sakarya University, Turkey

Parul Thapar
Indira Gandhi National Open University, India

Javeria Samad
Habib University, Pakistan

Grettel Aviles Sayas
The Universidad Veracruzana, Mexico

Muhammd Nadeem Hafeez
Center for Excellence in Molecular Biology, Pakistan

Ahmed Marroki
University Djillali Liabes, Algeria

Alejandro Garrido-Maestu,
International Iberian Nanotechnology Laboratory, Portugal

Carmen Candel-Perez,
Universidad de Murcia, Spain

Giovanna La Salandra,
Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Italy

Gizem Cufaoglu,
Kirikkale University, Turkey

Gulsah karabulut
Sakarya University, Turkey

Horia Radid
National Institute of Hygiene-Rabat, Morocco

Ilknur Civelek
Sakarya University, Turkey

Javeria Samad
Habib University, Pakistan

Jiseon Lee
Korea University, South Korea

Judith Jimenez-Guzman
Metropolitan Autonomous University, Mexico

Lila Boulekbache -Makhlouf
University of Bejaia, Algeria

Maria J Cantalejo
Public University of Navarre, Spain

Martina Bohacova
Gaziosmanpasa University, Czech Republic

Radovan Cobanovic
SP Laboratory, Serbia

Rui Feng Mao
Guangxi University, China

Stanley Kelechi Dike
Imo State University, Nigeria

Tianxiang Yang
Korea University, South Korea

PAST AFFILIATES

PAST AFFILIATES

Jianhua Wang
Chinese Academy of Agricultural Sciences, China

Hisashi Kawasaki
Tokyo Denki University, Japan

Nasser mousa
Mansoura University, Egypt

Upasana Mohanty
All India Institute of Medical Sciences Bhopal, India

Adel ELMEKES
Cadi Ayyad University , Morocco

Sajwa Baqader
Manchester university, UK

Reem Barnawi
Reem Barnawi, UK

Elly Raemakers
Elly Raemakers, Netherlands

Glimpses of Microbiology Conferences

















London Attractions

