

The 50th Anniversary of World Data Center for Microorganisms

Hosted by:

WFCC-MIRCEN World Data Center for Microorganisms (WDCM)

Organized by:

- **Institute of Microbiology, Chinese Academy of Sciences (IMCAS)**
- **World Federation for Culture Collections (WFCC)**
- **CODATA Task Group on Advancing Informatics for Microbiology (TG-AIM)**

Supported by:

- **Bureau of Science & Technology for Development, Chinese Academy of Sciences**
- **Bureau of International Co-operation, Chinese Academy of Sciences**
- **Bureau of Facility Support and Budget, Chinese Academy of Sciences**
- **Department of Nature and Ecology Conservation, Ministry of Environmental Protection**
- **National Science and Technology Infrastructure Center, Ministry of Science and Technology**

世界微生物数据中心成立 50 周年学术研讨会

主办单位：

世界微生物数据中心

组织单位：

中国科学院微生物研究所

世界菌种保藏联合会

国际科技数据委员会微生物工作组

支持单位：

中国科学院科技促进发展局

中国科学院国际合作局

中国科学院条件保障与财务局

环保部自然生态保护司

科技部国家科技基础条件平台中心

Microbial resources are the important material foundation of sustainable development of humanity, and the significant source of biotechnological innovation. The availability, accuracy and sharing level of microbial resource data will exert an influence on the comprehensive research and application capability in the whole biology area.

WFCC-MIRCEN World Data Center for Microorganisms (WDCM) is the first world data center in the field of biology in China. By now, 708 microbial resource culture collections from 72 countries and regions have sharing their information through WDCM data portal.

The year of 2016 witnesses the 50th anniversary of the establishment of WDCM, and we will hold the academic symposium of the 50th Anniversary of World Data Center for Microorganisms. World-renown top-class microbial experts and scholars are invited to explore global microbial resource data and its scientific problem and development trends. On the basis of the work platform of WDCM, we will take this chance and advocate international cooperation plan to promote the sharing and application of Microbial resource data across the globe. Let's work together to promote the development of big data of world microorganisms resource at this academic conference.

微生物资源是人类赖以生存和发展的重要物质基础和生物科技创新的重要源泉。以现代生物技术为核心的微生物资源研究与利用将是未来全球生物资源竞争的战略重点之一。微生物数据资源的丰富性、准确性和共享水平影响整个生物学领域研究和应用的综合能力。

世界微生物数据中心（WDCM）是我国生物学领域的第一个世界数据中心。迄今为止,已有来自全球 72 个国家和地区的 708 个微生物资源保藏机构通过 WDCM 展示其保藏的微生物菌种信息。

2016 年正值世界微生物数据中心成立 50 周年，我们将举办世界微生物数据中心成立 50 周年学术研讨会。我们邀请了来自全球微生物资源领域的顶尖专家、学者共聚一堂，探讨未来全球微生物资源大数据及其共享和利用过程中的科学问题和发展趋势。并希望借此机会，以 WDCM 的工作为平台，进一步倡导重要的国际合作计划，在全球范围内推动微生物资源数据的共享和应用。

让我们共飨此次学术盛宴，共同推动世界微生物资源大数据的发展！

The 50th Anniversary of World Data Center for Microorganisms

September 6 th , 2016	
Function Room, Grand Building, Beijing Friendship Hotel (友谊宾馆贵宾楼二层)	
Session 1: Welcome Remarks, Chaired by Prof. Shuang Jiang Liu	
13:30-14:00	Welcome remarks
Session 2: Keynote Speech, Chaired by Prof. Xiuzhu Dong	
14:00-14:30	Keynote speech: <i>Big Data-driven Discovery and Improvement of Pharmaceutical and Nutritional Natural Products</i> by Dr. Zixin Deng, Academician of Chinese Academy of Sciences, Shanghai Jiao Tong University, China
14:30-14:50	Keynote speech: <i>WDCM, past and another 50 years to come</i> by Dr. Sugawara Hideaki, Professor of National institute of Genetics, Japan
14:50-15:10	Keynote speech: <i>WDCM in new era</i> by Dr. Juncai Ma, Director of World Data Center for Microorganisms, Institute of Microbiology, Chinese Academy of Sciences, China
15:10-15:30	Keynote Speech: <i>WDCM: the sum of all efforts and much more Get the right information at any time</i> by Dr. Philippe Desmeth, President of World Federation for Culture Collections (WFCC), Belgian Science Policy Office, Belgium
Chaired by Prof. Dr. Philippe Desmeth, Dr. Juncai Ma	
15:30-16:00	WDCM Beijing Declaration and WDCM MOU Signing Ceremony
16:00-16:30	Group Photos and Tea Break
Session 3: Keynote Speech, Chaired by Dr. Dilber Ipek Kurtboke	
16:30-17:00	Keynote speech: <i>Dynamic Changes of Marine Microbial Communities over Time</i> by Prof. Takashi Gojobori, Vice President of CODATA; The Distinguished Professor, CBRC of KAUST, King Abdullah and National Institute of Genetics, Japan
17:00-17:30	Keynote speech: <i>Identifying the micro from the peta: tales of big data in the micro world</i> by Dr. Nikos C. Kyrpides, Prokaryote Super Program Head, U.S. Department of Energy Joint Genome Institute (DOE JGI), USA
17:30-18:00	Keynote speech: <i>Beyond sequencing</i> by Dr. Ye Yin, CEO of BGI Genomics Co. Ltd., China
18:00-20:00	Welcome Banquet Yashi Restaurant, First Floor, Grand Building, Beijing Friendship Hotel (友谊宾馆贵宾楼一层雅仕餐厅)

September 7th, 2016

No. 5 Conference Room, Building 8, Beijing Friendship Hotel (友谊宾馆 8 号楼 5 号会议室)

Session 4: CBD and Nagoya Protocol, Chaired by Dr. Nelson Lima

9:00-9:30	Keynote Speech: <i>Polymorphisms in microbial whole genome sequence identify classical mutations and may establish geographic origin for the Nagoya Protocol</i> by Prof. Kevin McCluskey, WFCC Executive Board member, Fungal Genetics Stock Center, USA
9:30-9:50	NIEMA: a transfer and exchange system of microbes for microbial resource centers for non-commercial purposes according to the CBD and the Nagoya Protocol by Dr. Ando-katsuhiko, Acting Director-General, NITE Biological Resource Center, National Institute of Technology and Evaluation, Japan
9:50-10:10	Implementation of the Nagoya Protocol in the EU - Guidance on scope and utilization by Dr. Axel Braun, Law Department Officer, F.HOFFMANN – LA ROCHE Ltd., Switzerland
10:10-10:30	Tea Break

Session 5: ISO TC 276 & Quality Control, Chaired by Dr. Erko Stackebrandt

10:30-11:00	Keynote Speech: <i>Standardising Data in Biotechnology: From Community to ISO Standards</i> by Dr. Martin Golebiewski, Convenor of ISO/TC 276 Biotechnology WG5 'Data Processing and Integration', Heidelberg Institute for Theoretical Studies, Germany
11:00-11:30	Keynote Speech: <i>Progress in ISO/TC 276 Biotechnology/WG 2 Biobanks and Bioresources</i> by Dr. Yong Zhang, Convenor of ISO/TC 276 Biotechnology WG2 & WG5 'Data Processing and Integration', China
11:30-11:50	Quality by Testing and Quality by Design in microbial Biobanks by Dr. Anabela Martins, Quality Manager of Micoteca da Universidade do Minho, Portugal
11:50-12:10	The importance of standardization in biobanking and introduction of KNRRC by Dr. Ki Hyun Ryu, President of Korea National Research Resource Center(KNRRC), Korea
12:10-13:30	Lunch

Session 6: The scientific frontier: unlocking the big data era on microorganisms, Chaired by Prof. Kevin McCluskey

13:30-14:00	Keynote Speech: <i>The collaborative working environment – a new level of knowledge transfer and Innovative collaboration</i> by Dr. Erko Stackebrandt, Coordinator of MIRRI, Leibniz-Institut DSMZ- German Collection of Microorganisms and cell cultures Germany, Germany
14:00-14:20	Actinomycetes and bacteriophages: powerful tools for biotechnology and biodiscovery by Dr. Dilber Ipek Kurtboke, WFCC-(ex-officio) Executive Board Member, University of the Sunshine Coast, Australia

14:20-14:40	<i>CGMCC-Promoting the Utilization of Microbial Resources</i> by Prof. Yuguang Zhou, Director of China General Microbiological Culture Collection Center (CGMCC), Institution of Microbiology, Chinese Academy of Sciences, China
14:40-15:00	<i>The European Culture Collections' Organisation: How to promote training and education innovative approaches</i> by Dr. Nelson Lima, President of European Culture Collections' Organization (ECCO), Portugal
15:00-15:30	<i>Tea Break</i>
Session 7: Bioinformatics & Big Data, Chaired by Prof. Oleg Stupar	
15:30-16:00	<i>Keynote Speech: Data associated with yeast culture collections: Challenges and opportunities</i> by Dr. Kyria Boundy-Mills, WFCC Executive Board member, Phaff Yeast Culture Collection, USA
16:00-16:20	<i>Bioinformatics for culture collections at the era of Big Data</i> by Dr. Vincent Robert, Head of Bioinformatics ,CBS-KNAW Fungal Biodiversity Center, Belgium
16:20-16:40	<i>Co-creating IT innovation to unlock microbial Big data</i> by Dr. Lily Eurwilaichitr, Deputy Executive Director of National center for Genetic Engineering and Biotechnology and Director of Thailand Bioresource Research Center (TBRC), Thailand
16:40-17:00	<i>Life science databases and possible interconnection with mBRC Data</i> by Dr. Alexander VASILENKO, IT specialist in All-Russian Collection of Microorganisms - VKM, Russia
17:00-17:20	<i>Industrial microbial resources informatization and sharing platform in China</i> by Dr. Yao Su, Vice Director of China Center of Industrial Culture Collection, Director of R&D department of fermentation, China National Research Institute of Food & Fermentation Industries, China
18:00-19:30	<i>Dinner</i>

September 8, 2016

No. 5 Meeting Room, Building 8, Beijing Friendship Hotel

Session 8: Promotion for Culture Collections, Chaired by Prof. Hideaki Sugawara

9:00-9:30	Keynote Speech: <i>Challenges of a new era for culture collections: a curator's view.</i> by Dr. Takashi Itoh, WFCC Executive Board member, JCM of RIKEN BRC, Japan
9:30-9:50	<i>Chilean Network of Microbial Culture Collections: Construction and Operation</i> by Dr. Cledir Santos, Interim Representative of the Chilean Network of Microbial Culture Collections, the Universidad de La Frontera, Chile
9:50-10:10	<i>The UK's National Collection of Type Cultures – answers to 21st century public health questions</i> by Dr. Julie E. Russell Head of Culture Collections National Infections Service, Public Health England (PHE), UK
10:10-10:30	Tea Break
Session 9: Promotion for WDCM Services Chaired by Dr. Philippe Desmeth, Dr. Juncai MA	
10:30-11:50	<i>WDCM serves as an information infrastructure for the exploration and utilization of microbial strains preserved worldwide</i> by Dr. Linhuan Wu, World Data Center for Microorganisms, Institute of Microbiology, Chinese Academy of Sciences, China <i>Discussion</i>
11:50-12:00	Closing remarks
12:00-13:30	Lunch

Accommodation

Standard room in Building 4, Beijing Friendship Hotel

Address: No.1 Zhongguancun South St. Beijing 100873, P.R. China

Tel: 86-10-51650566 <http://www.friendshipshotel.com>

Banquet and Buffet Cafeteria:

1. Sep 6th, Lunch Buffet (Meal Time: 12:00-13:30)

Café shop in 1st floor, Friendship Palace",

2. Sep 6th Welcome Banquet (Meal Time: 18:00-20:00)

Yashi Restaurant, 1st floor Building 1 (Grand Building)

3. Sep 7th, Lunch Buffet (Meal Time: 12:00-13:30)

Café shop in 1st floor, Friendship Palace"

4. Sep 7th, Dinner Buffet (Meal Time: 18:00-19:30)

Café shop in 1st floor, Friendship Palace"

5. Sep 8th, Lunch Buffet (Meal Time: 12:00-13:30)

Café shop in 1st floor, Friendship Palace"

北京友谊宾馆示意图

Plan of Beijing Friendship Hotel

