

## Seminar on Agricultural Nano-Biotechnology

Name	Seminar on Agricultural Nano-Biotechnology		
Organizer	Hubei Vocational College of Bio-Technology		
Time	2023-06-07 to 2023-06-20	Language for Learning	English
Invited Countries	Developing Countries	Number of Participants	25
Objectives of the Training Course	Through the training, participants will have a relatively full understanding of China, and current situation and perspectives of agricultural nano-biotechnology in China. They are supposed to benefit from the training to improve their own countries' sustainable agricultural nano-biotechnology development which lay a good foundation for further enhancement of exchanges and cooperation in agricultural technology between China and the developing countries.		
Requirements for the Participants	Professional Background	Officials, experts, researchers, teachers or management staff engaged in agricultural nano-biotechnology	
	Age	Within the legal retirement age of the country	
	Health	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without metal diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant.	
	Language	Capable of listening, speaking, reading and writing in English during the training	
	others	Able to use zoom, and able to complete the project schedule	
Seminar Content	<p>1. Introduction to the Main Training Courses and Contents</p> <p>The training content mainly includes four sections: lectures, cloud visit, symposiums and cloud cultural visit. Lectures are closely related to the theme of the seminar, with agricultural nano-biotechnology as the core, combined with the actual needs of the developing countries, introducing the management scheme and advanced technology of China's agricultural nano-biotechnology in related fields, and discussing new ideas of</p>		

modern agricultural development together.

(1)General Review of China: Introduce the politics, society, history, traditional culture and other aspects of China.

(2)From China's Reform and Opening up to Chinese Modernization: introduce the creation and development of the road of reform and opening up and Chinese path to modernization.

(3)China's Poverty Alleviation and Rural Revitalization: Introduce the history and achievements of poverty alleviation in China's rural areas, including poverty alleviation concepts, policy support, typical cases, etc.

(4)Introduction to Agricultural Nano-Biotechnology: Introduce the characteristics of agricultural nano-biotechnology, agricultural nano-biotechnology materials and their preparation, application fields and development direction of agricultural nano-biotechnology.

(5) Agricultural Nano-Biotechnology to Improve Crop Stress Resistance: Introduce the use of nano materials that can remove active oxygen to transform crops and improve crop stress resistance.

(6) Plant Nanotechnology and Eco-Agriculture: introduce nanomaterials and plant nanotechnology, the application of plant nanotechnology in sustainable agriculture, promote plant growth and increase crop yield.

(7) Smart Agriculture and Nano-Sensing Elements: Introduce the application of nano-sensing elements that can detect the changes of active oxygen content and glucose signal in plants in real time in smart agriculture.

(8) Intelligent Nano-Crop Construction: Introduce the principle, scheme and application of intelligent nano-crop construction.

(9) Nano Biological Fertilizer: Introduce the types, functions and applications of nano biological fertilizer.

(10) Nano Biological Pesticides: introduce the types, functions and applications of nano biological pesticides.

(11) Application of Nano-Biotechnology in plant disease resistance: introduce the ability of nano-biotechnology in improving crop salt resistance, drought resistance, high and low temperature resistance, disease and pest resistance.

(12) Crop Transgenic Mediated by Nanotechnology: the effective means of crop stress resistance breeding mediated by nanotechnology has become one of the important ways to ensure efficient production and stable supply of food.

## 2. Cloud visit

Cloud visited the Plant Nanobiology Laboratory of Huazhong Agricultural University to investigate the research progress and research and development of plant nanobiotechnology.

## 3. Cloud cultural visit

Cloud experience the generation and development of Chinese traditional culture, the overall style and basic spirit of Chinese traditional culture, and feel the assimilation,

continuity, cohesion and influence of Chinese civilization.

#### 4. Symposiums

(1) Symposium: professors and researchers will share their experiences and research outcomes in the development of agricultural nano-biotechnology in China and exchange views on the current situation, advantages & weakness and development of agricultural nano-biotechnology in developing countries.

(2) Country report: participants from different countries will share the general situation and culture of their countries, the development and problems facing the agricultural nano-biotechnology, and discuss specific issues they are interested in.

(3) Business exchange session: in-depth exchanges with experts of enterprises in the field of agricultural nano-biotechnology on the issues of current situation, trends, advantages, challenges and difficulties facing the development of agricultural nano-biotechnology.

#### 5. Overview of lecturers

All the professors invited for this seminar are with senior titles from Hubei Academy of Agricultural Sciences, Huazhong Agricultural University and other universities and research units, with rich experience in teaching and research.

(1) Prof. NIE Zhongming: Associate Professor, School of Foreign Languages and Foreign Trade, Wuhan Vocational and Technical College.

(2) Prof. LIN Li: Professor of Wuhan Textile University, Secretary of the International Exchange and Cooperation Division.

(3) Prof. DING Shijun: second-level professor, doctor of management and doctoral supervisor of Zhongnan University of Economics and Law. He is currently the dean of the School of Public Management of the Central South University of Economics and Law and the director of the MPA Education Center, the consultant of the World Bank and the Food and Agriculture Organization of the United Nations Energy and Poverty Project, and the director of the China Rural Cooperative Economic Management Association.

(4) Prof. BIE Zhilong: Director of the Vegetable Department of the School of Horticulture and Forestry of Huazhong Agricultural University, researcher of the Central China Branch of the National Vegetable Improvement Center and the Key Laboratory of Horticultural Plant Biology of the Ministry of Education, and scientist of the "facility cultivation" post of the national watermelon and melon modern agricultural industrial technology system.

(5) Prof. WU Honghong: Professor, School of Plant Science and Technology, Huazhong Agricultural University. Post-doctor, University of California, Riverside. It has obtained a number of international and national R&D patents.

(6) Prof. JIN Shuangxia: Professor and doctoral supervisor of the School of Plant Science and Technology, Huazhong Agricultural University. The research field mainly involves cotton biotechnology, cytoplasmic genome and biotechnology research. "Young Yangtze River Scholar" of the Ministry of Education, PI, National Key Laboratory of Crop Genetic Improvement, presided over a number of general programs of the National Natural Science Foundation of China.

(7) Prof. CHEN Fang: an expert in plant nutrition and agricultural ecology research of

	<p>Wuhan Botanical Garden, Chinese Academy of Sciences, and a recipient of special government subsidy from the State Council. In 1993, he was awarded the title of "Young and middle-aged expert with outstanding contributions in Hubei Province".</p> <p>6. Assessment</p> <p>Participants are required to submit the teaching quality assessment sheet, Trainee Evaluation Form and a country report (PowerPoint) at the end of the training.</p>		
Host City	Wuhan	Cities to visit	HuBeiSheng
Notes	<p>1.This training will be conducted online via Zoom meeting Application.</p> <p>2.During the training, please observe the class time and teaching discipline, attendance records will be regarded as a major basis for issuing the certificate.</p> <p>3. Preparation for the class: the participants are kindly required to enter the Zoom meeting 15 minutes early before class. Better check your Zoom ID to be same as the one on your passport and turn on the webcam for the sake of your attendance. During the class, the host will mute everyone. If you have anything want to say, please click “raise hand”.</p> <p>4. Disciplinary requirements: during the seminar, please try to strictly follow the arrangements and do not quit without any reason and notice.</p> <p>5. Information security: to protect information security and individual privacy, please do not record, take screenshots or post on any social media during the training. Course materials will be sent to participants at the end of the class.</p> <p>6. Participants are supposed to prepare related discussion materials and submit relevant electronic materials as required.</p>		
About the Organizer	<p>Hubei Vocational College of Bio-Technology is the organizer of Foreign-Aid Training Programs determined by the Ministry of Commerce in the 1990s. Over the past 33 years, the college has successfully implemented 99 foreign-aid training projects sponsored by China Ministry of Commerce and 27 bilateral training courses sponsored by IFAD project for Egyptian agricultural officials. 2759 officials and technicians from 128 countries have attended trainings in the college. We has successively organized bilateral training programs for 15 developing countries, including Egypt, Niger, Namibia, Bangladesh, Tajikistan, Mali, Afghanistan, Uzbekistan, Lesotho, Chad, South Sudan, Kazakhstan, Ethiopia, Cambodia, Pakistan, and Burkina Faso, and implemented fruitful bilateral communication and cooperation.</p> <p>The college actively serves the BRI Initiative, insisting on the combination of management training and practical technical training from the actual needs of participating countries. Training contents cover ten major fields such as Crop planting, Animal Husbandry, Eco-agriculture, Protected Agriculture, Agricultural Biotechnology, Cotton Processing, Textile Production, Economy and Trade Administration, Legal System Construction and Digital Economy. Training language covers English, French, Russian and Arabic; The participants come from 128 countries on five continents, and more than 80% of them are local</p>		

	government cadres at the department level or above, as well as university teachers and technicians of the National Agricultural Research Institute.	
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