



Food and Agriculture
Organization of the
United Nations

联合国粮农组织国际黑土联盟第一届全会 暨国际黑土学术研讨会

FIRST WORKSHOP OF THE INTERNATIONAL NETWORK OF BLACK
SOILS AND INTERNATIONAL SYMPOSIUM ON BLACK SOILS

会议指南

Agenda

中国·哈尔滨 2018年9月10日-12日

Harbin · China September 10th-12th, 2018



联合国粮农组织国际黑土联盟第一届全会
暨国际黑土学术研讨会

FIRST WORKSHOP OF THE INTERNATIONAL NETWORK OF BLACK
SOILS AND INTERNATIONAL SYMPOSIUM ON BLACK SOILS

论坛主题： 保护黑土 投资未来

Symposium Topic: Protect Black Soils Invest in the Future

主办单位：联合国粮农组织

承办单位：黑龙江省农业科学院

联合国粮农组织国际黑土联盟

黑龙江省人民政府参事室

中国土壤学会

黑龙江省土壤肥料学会

支持单位：农业农村部种植业管理司

农业农村部耕地质量监测保护中心

黑龙江省绥化市人民政府

中国科学院南京土壤研究所

中国农业科学院农业资源与农业区划研究所

中国农业大学资源与环境学院

东北农业大学

黑龙江省土肥管理站

黑龙江维沃天野农业科技发展有限公司

哈尔滨德远科技开发有限公司

ORGANIZER:

- Food and Agriculture Organization of the United Nations

CO-ORGANIZERS:

- Heilongjiang Academy of Agricultural Science
- Global Soil Partnership (GSP)
- Counselor's office of People's Government of Heilongjiang Province
- Soil Science Society of China
- Soil Fertilizer Society of Heilongjiang Province

SUPPORT UNITS:

- Plantation Management Division, Ministry of Agriculture and Rural Affairs
- Cultivated land quality monitoring and protection center, Ministry of Agriculture and Rural Affairs
- Suihua Municipal People's Government of Heilongjiang Province
- Institute of Nanjing Soil Research, Chinese Academy of Sciences
- Institute of Agricultural Resources and Regional Planning, China Academy of Agricultural Sciences
- College of Resources and Environmental Sciences, China Agricultural University
- Northeast Agricultural University
- Station of Soil and fertilizer, Heilongjiang Province
- Heilongjiang WeiwoTianye Agricultural Technology Development Co.Ltd
- Harbin Deyuan Sciences and Technology Development Co.Ltd



联合国粮农组织国际黑土联盟第一届全会 暨国际黑土学术研讨会

2017年3月，联合国粮农组织召开全球土壤有机碳大会，期间举办了联合国粮农组织国际黑土联盟启动仪式。2017年6月，在联合国粮农组织举办的全球土壤伙伴关系第五届全会上，经研究决定于2018年在中国黑龙江省哈尔滨市召开“联合国粮农组织国际黑土联盟第一届全会”。2017年10月，在中国哈尔滨市举办了联合国粮农组织国际黑土联盟第一届全会筹备会议中决定于2018年9月10日在中国哈尔滨召开联合国粮农组织国际黑土联盟第一届全会暨国际黑土学术研讨会。本次会议由联合国粮农组织主办，黑龙江省农业科学院、联合国粮农组织国际黑土联盟、黑龙江省人民政府参事室、中国土壤学会、黑龙江省土壤肥料学会等承办。

诚挚的邀请您出席联合国粮农组织国际黑土联盟第一届全会暨国际黑土学术研讨会！

联合国粮农组织国际黑土联盟大会组委会

2018年9月9日



First Workshop of the International Network of Black Soils and International Symposium on Black Soils

Members of the FAO's Global Soil Partnership launched the International Network of Black Soils (INBS) during the Global Symposium on Soil Organic Carbon in March 2017. During the fifth GSP Plenary Assembly in July 2017, the INBS decided to hold its First Workshop in Harbin, China in September 2018. In October 2017, a preparatory meeting for planning the First Workshop of INBS was held in Harbin and the INBS decided that the symposium would be held on 10th -12th September 2018. This symposium is organized by FAO-GSP, and the co-organizers include the Heilongjiang Academy of Agricultural Sciences, the INBS, the Chinese Soil Science Society, the Counselor's office of People's Government of Heilongjiang Province and the Soil Science Society of Heilongjiang Province.

FAO and the INBS are pleased to welcome all the participants to the International Symposium on Black Soils and the First Workshop of the International Network of Black soils!

Symposium Organizing Committee, INBS and FAO

9th September 2018



会议须知

1. 会议地点：黑龙江省农业科学院国际农业科技创新中心

哈尔滨市敖麓谷雅酒店

地址：哈尔滨市松北区创新三路800号 电话：0451-88800808

2. 用餐地点及时间：

(1) 所有早餐凭房卡用餐；

(2) 9月9日晚餐；9月10日午餐；9月11日午餐、晚餐；

9月12日午餐、晚餐均为自助餐，凭餐票用餐；

(3) 9月10日晚餐用餐地点为二楼瑟宾厅（招待酒会）；

(4) 用餐时间：

早餐：07:00-08:30；中餐：12:00-13:00；晚餐：18:30-20:00

3. 联系方式：

(1) 会务组房间号及电话：3711室，+86-451-88800808-83711

(2) 工作人员电话：孙 磊：+86-13936530238；张 磊：+86-15904603213

常本超：+86-18644057792；马星竹：+86-13766837484

陈雪丽：+86-13936585091；刘双全：+86-13845008701

4. 温馨提示：

请参会人员佩戴代表证参加会议，进入会场请将手机关闭或调为静音状态。会议报告人于会议报到时将 PPT 拷贝到会务组电脑。为尊重报告人的著作权，会务不提供文件复制服务，有需要者请直接与报告人联系。

wifi帐号：AOLUGUYA-003

天气情况：

9日，晴转多云，19°C/9°C；

10日，雨转阴，22°C/12°C

11日，雨，23°C/15°C；

12日，雨转阴，18°C/5°C

13日，多云转晴，14°C/4°C



Meeting Information

1. Hotel address: The International Agricultural Innovation Center of Heilongjiang Academy of Agricultural Sciences. (AOLUGUYA Hotel. Address: No. 800, Innovation 3rd Road, Songbei District, Harbin . Tel:0451-88800808)

2. Dining location and time:

(1) Breakfast can be accessed using your room key
(2) Dinners of the 9th, 11th and 12th, and lunches of 10th, 11th and 12th can be accessed using meal tickets

(3) Dinner will be served in the Serbin Hall on the second floor on 10th (Reception)

(4) Dining time:

Breakfast:07:00-08:30 AM ; Lunch: 12:00-13:00 PM ; Dinner:18:30-20:00 PM

3. Contact Information:

(1) Conference room number and phone number:

Room 3711, +86-451-88800808-83711

(2) Staff contact numbers:

Lei Sun: +86-13936530238; Lei Zhang: +86-15904603213

Benchao Chang: +86-15904603213; Xingzhu Ma: +86-13766837484

Xueli Chen: +86-13936585091; Shuangquan Liu: +86-13845008701

4. Other relevant information:

Please use your representative card to attend the meeting. Make sure to turn off or mute your mobile phone during all meetings. The presenters should send their PPT to the organizers during registration.

WiFi: AOLUGUYA-003

Weather Information:

Sunday 9th: Sunny to cloudy, 19°C/9°C

Monday 10th: Rain turns cloudy, 22°C/12°C

Tuesday 11th: Rain, 23°C/15°C

Wednesday 12th: Rain turns cloudy, 18°C/5°C

Thursday 13th: Cloudy to clear, 14°C/4°C



会议日程

2018年9月9日		
时间	内容	负责人
8:30-20:30	注册（一楼大堂）	周宝库
17:30-21:30	晚餐（三楼雅库特厅）	刘双全
2018年9月10日 会议地点：二楼瑟宾厅		
时间	内容	主持人
7:00-8:30	注册	周宝库
8:30-9:30	开幕式	韩贵清 联合国粮农组织 国际黑土联盟主席
	1. 播放联合国粮农组织总干事 José Graziano da Silva 视频致辞	
	2. 黑龙江省领导致辞	
	3. 农业农村部科技教育司巡视员 刘艳致辞	
	4. 农业农村部耕地质量监测保护中心 副主任 谢建华致辞	
	5. 中国土壤学会理事长 沈仁芳致辞	
6. 黑龙江省农业科学院党组书记 刘娣致辞		
9:30-10:15	合影、茶歇 合影地点：酒店一楼门前；茶歇地点：二楼瑟宾厅	
10:15-12:00	大会报告	张福锁 中国工程院院士 中国农业大学教授
	1. Ronald Vagas, 联合国粮农组织全球土壤 伙伴关系秘书长《全球黑土现状》	
	2. 韩贵清, 联合国粮农组织国际黑土联盟主席 《保护黑土、投资未来》	
	3. Marcos Esteban Angelini, 阿根廷土壤研究所 所长 / 教授《阿根廷黑土现状》	



Agenda

September 9 th , 2018		
TIME	ITEM	CONTACTS
8:30-20:30	Registration Lobby - 1 st floor	Baoku Zhou
17:30-21:30	Dinner Yakurt hall - 3 rd floor	Shuangquan Liu
September 10 th , 2018 Meeting place: Serbin hall 2 nd floor		
TIME	ITEM	MODERATOR
7:00-8:30	Registration	Baoku Zhou
8:30-9:30	Opening ceremony	Guiqing Han (Chair of INBS)
	1. Video speech by Mr. José Graziano da Silva, Director-General of FAO	
	2. Speech by leader of the Heilongjiang Province	
	3. Speech by Yan Liu, Inspector of Sciences and Education Division, Ministry of Agriculture and Rural Affairs	
	4. Speech by Jianhua Xie, Deputy director of Cultivated land quality monitoring and protection center, Ministry of Agriculture and Rural Affairs	
	5. Speech by Renfang Shen, Chairman of the Chinese Soil Society	
	6. Speech by Di Liu, Secretary General of HAAS	
9:30-10:15	Group Photo and Tea Break Photo location: The front door of the hotel; Tea break location: Serbin hall 2 nd floor	
10:15-12:00	Symposium Report	Fusuo Zhang (Academician of Chinese Academy of Engineering, Professor of China Agricultural University)
	1. Mr. Ronald Vagas, Secretary of FAO, GSP «Global Status of Black Soil »	
	2. Mr. Guiqing Han, President of the INBS, China «Protect Black Soils, Invest in the Future»	
	3. Mr. Marcos Esteban Angelini, Soils Institute, Natural Resources Research Centre, Argentina. «Status of Black soils in Argentina»	



10:15-12:00	4. Ademir Fontana, 巴西 Embrapa 农业研发中心, 首席土壤专家 / 顾问《巴西黑土现状》	徐明岗 中国土壤学会 副理事长
	5. Toma Shishkov, 保加利亚土壤农业植物保护研究所 首席土壤专家 / 教授《保加利亚黑土现状》	
	6. 柯柄生, 中国农业大学, 教授《中国农业发展与土地保护》	
	7. 张甘霖, 中国科学院南京土壤研究所 研究员《中国的黑土: 分类、分布和演变》	
12:00-13:00	午餐: 三楼雅库特厅、通古斯厅	
13:30-15:00	大会报告	沈仁芳 中国土壤学会 理事长
	8. 张福锁, 中国农业大学教授, 中国工程院院士《养分管理技术创新与应用》	
	9. 徐明岗, 中国土壤学会副理事长《基于长期试验的中国农田土壤固碳及作物产量》	
	10. Xiaoyuan Geng, 加拿大农业与食品部首席土壤专家 / 主任《加拿大黑土现状》	
	11. Luca Montanarella, 欧盟科学联合中心环境司, 首席土壤专家 / 主席《欧盟黑土现状》	
12. Saparov Abdulla, 哈萨克斯坦 U.Uspanov Kazakh 土壤科学与农业化学研究所所长 / 教授《哈萨克斯坦黑土现状》		
15:00-15:15	茶歇	
15:15-16:45	大会报告	张颖 东北农业大学资源与环境学院 院长、教授
	13. Yiyi Sulaeman, 印度尼西亚农业部农业土地研究中心, 首席土壤专家 / 教授《印度尼西亚黑土现状》	



10:15-12:00	4. Mr. Ademir Fontana, Agricultural research and development center of Embrapa , Brazil. «Status of Black Soils in Brazil»	Minggang Xu (Vice chairman of Soil Science Society)
	5. Mr. Toma Shishkov, Institute of Soil Science, Agrotechnology and Plant Protection, Bulgaria. «Status of Black Soils in Bulgaria»	
	6.Mr. Bingsheng Ke, China Agricultural University. «China's Agricultural Development and Land Protection»	
	7.Mr. Ganlin Zhang, Vice Director, Institute of Soil Science, Chinese Academy of Sciences, China. «Black soil in China: Classification, Distribution and Evolution»	
12:00-13:00	Lunch: Yakurt hall and Turgus hall, 3 rd floor	
13:30-15:00	Symposium Report	Renfang Shen, Chairman of Soil Science Society
	8. Mr. Fusuo Zhang, Academician, Chinese Academy of Engineering, China. «Nutrient Management: Technology Innovation and Application»	
	9. Mr.Minggang Xu, Vice chair of the Soil Science Society, China. «Soil Carbon Sequestration and Crop Yields in China's Farmlands Based on Long-term Experiments»	
	10. Mr. Xiaoyuan Geng, Head/Soil Scientist, Agriculture & Agri-Food Canada. «Status of Black Soils in Canada»	
	11. Mr. Luca Montanarella, Senior scientist, Joint Research Centre, European Commission, EU. «Status of Black Soils in the EU»	
	12. Mr. Pachikin Konstantin, U.Uspanov Kazakh Research Institute on Soil Science and Agrochemistry, Kazakhstan. «Status of Black Soils in Kazakhstan»	
15:00-15:15	Tea Break	
15:15-16:45	Symposium Report	Ying Zhang (Dean, College of Resources and Environment, Northeast Agricultural University)
	13 .Mr. Yiyi Sulaeman, Indonesian Center for Agricultural Land Resouce Research and Development, Indonesia. «Status of Black Soils in Indonesia»	



15:15-16:45	14.Kutaiba M.Hassan, 伊拉克巴格达大学土壤管理系, 首席土壤专家 / 教授 《伊拉克黑土现状》	张颖 东北农业大学资源与环境学院 院长、教授
	15.Tatiana Ciolacu, 摩尔多瓦国家农业土壤植物保护研究所, 科研处长 / 教授 《摩尔多瓦黑土现状》	
	16.Enkhtuya Bazarradnaa, 蒙古生命科学大学农学院, 首席土壤专家 / 教授 《蒙古国黑土现状》	
	17.Jose da Graca Tomo, 莫桑比克农业研究所, 首席土壤专家 《莫桑比克黑土现状》	
	18.Ivan Vasenev, 俄罗斯莫斯科州立大学, 首席土壤专家 / 教授 《俄罗斯黑土现状》	
16:45-17:15	讨论和建议	
18:30-20:00	招待酒会: 二楼瑟宾厅	
2018年9月11日		
时间	内容	主持人
8:00-12:00	考察活动 8:00 在酒店一楼集合 1. 参观黑龙江省农业科学院开放实验室 2. 参观黑龙江省农业科学院国家现代农业示范区	
12:00-13:00	午餐: 三楼雅库特厅、通古斯厅	
会议地点: 二楼瑟宾三厅		
13:30-15:30	大会报告	李保国 中国土壤学会副理事长、中国农业大学教授
	19.Martin Saksa, 斯洛伐克国家农业食品公司土壤保护研究所, 首席土壤专家 / 教授 《斯洛伐克黑土现状》	



15:15-16:45	14. Mr. Kutaiba M.Hassan, Department of Soil Management, Baghdad University, Iraq. «Status of Black Soils in Iraq»	Ying Zhang (Dean, College of Resources and Environment, Northeast Agricultural University)
	15. Ms. Tatiana Ciolacu, Scientific Secretary, Institute of Pedology, Agrochemistry and Soil Protection, Moldova. «Status of Black Soils in Moldova»	
	16. Ms. Enkhtuya Bazarradnaa, Faculty of Agriculture. University of Life sciences, Mongolia. «Status of Black Soils in Mongolia»	
	17. Mr. Jose da Graca Tomo, Agricultural research institute, Mozambique. «Status of Black Soils in Mozambique»	
	18. Mr. Ivan Vasenev, Moscow State University, Russian Federation. «Status of Black Soils in the Russian Federation»	
16:45-17:15	Discussion and recommendations	
18:30-20:00	Reception banquet at Serbin hall, 2 nd floor	
September 11th, 2018		
TIME	ITEM	MODERATOR
8:00-12:00	Field Visit 8:00 Gathering on the first floor of the hotel 1. Visit Open Laboratory of HAAS 2. Visit National Modern Agriculture Demonstration Zone of HAAS	
12:00-13:00	Lunch: Yakurt hall and Turgus hall, 3 rd floor	
Meeting place: 3 rd Serbin hall, 2 nd floor		
13:30-15:30	Symposium Report	Baoguo Li (Vice chairman of Soil Science Society, Professor of China Agricultural University)
	19. Mr. Martin Saksa, National Agricultural Food Company Soil Protection Research Institute Slovakia «Status of Black Soils in Slovakia»	



13:30-15:30	20.Hakki Emrah Erdogan, 土耳其土壤学会, 土壤领域国际顾问《土耳其黑土现状》	李保国 中国土壤学会副 理事长、中国农 业大学教授
	21.Mykola Miroshnychenko, 乌克兰国家科学院索科洛夫斯基土壤研究所, 副所长 / 教授《乌克兰黑土现状》	
	22.Khodakivska Olga, 乌克兰国家科学中心“农业经济研究所”/国家地质局, 主任《乌克兰黑土地在环境及经济方面的发展潜力》	
	23.Skye Angela Wills, 美国农业部土壤科学司, 首席土壤专家《美国黑土现状》	马星竹 黑龙江省农业科 学院土壤肥料与 环境资源研究所 副研究员
	24.Carlos Clérico, 乌拉圭农业畜牧业渔业部, 所长 / 教授《乌拉圭黑土现状》	
	25. 汪景宽, 中国沈阳农业大学, 教授 《中国黑土地地区耕地质量现状与提升对策》	
26. 魏丹, 中国北京市农林科学院, 研究员 《中国东北黑土农田有机碳管理》		
15:30-15:45	茶歇	
15:45-16:15	讨论和建议	李保国 中国土壤学会 副理事长 中国农业大学教授
16:15-16:45	总结和展望	Ronald Vagas 联 合国粮农组织全 球土壤伙伴关系 秘书长
18:30-20:00	晚餐: 三楼雅库特厅、通古斯厅	



13:30-15:30	20. Mr. Hakki Emrah Erdogan, Turkish Soil Science Society, Turkey. «Status of Black Soils in Turkey»	Baoguo Li (Vice chairman of Soil Science Society, Professor of China Agricultural University)
	21. Mr. Mykola Miroschnyenko, National Scientific Center, Institute for Soil Science and Agrochemistry Research named after O.N. Sokolovsky, Ukraine. «Status of Black Soils in Ukraine»	
	22. Ms. Khodakivska Olga, Institute of Agricultural Economics, National Science Center, State Geological Bureau, Ukraine. «Potential of Black Soils of Ukraine: Environmental and Economic Aspects »	
	23. Ms. Skye Angela Wills, USDA-NRCS-National Soil Survey Center, Dynamic Soil Properties, United States of America. «Status of Black Soils in United States of America»	Xingzhu Ma (Associate researcher of Institute of Soil Fertilizer and Environmental Resources, HAAS)
	24. Mr. Carlos Clérico, Natural Resources of the Ministry of Livestock, Agriculture and Fisheries, Uruguay. «Status of Black Soils in Uruguay»	
	25. Mr. Jingkuan Wang, Shenyang Agricultural University, China. «Current Status and Improvement Countermeasures of Cultivated Land Quality in Black Soil Region of China»	
26. Ms. Dan Wei, Beijing Academy of Agriculture and Forestry Sciences, China. «Organic Carbon Management in Black Soil Farmlands in Northeast China»		
15:30-15:45	Tea Break	
15:45-16:15	Discussion and recommendations	Baoguo Li (Vice chairman of Soil Science Society, Professor of China Agricultural University)
16:15-16:45	Conclusion and way forward	Mr. Ronald Vargas, Secretary of GSP, FAO
18:30-20:00	Dinner: Yakurt hall and Turgus hall , 3 rd floor	



2018年9月12日 会议地点：二楼瑟宾3厅		
时间	内容	主持人
8:30-10:00	框架讨论	Yuxin Tong / Ronald Vagas, 联合国粮农组织 全球土壤 伙伴关系
	《黑土联盟框架讨论》： - 黑土定义 - 联盟目标 1.Rosa Cuevas Corona 联合国粮农组织全球土壤伙伴关系 2.Yuxin Tong 联合国粮农组织全球土壤伙伴关系	
10:00-10:15	茶歇	
10:15-12:00	《黑土联盟框架讨论》： - 联盟成员 - 工作内容 3.Yuxin Tong , 联合国粮农组织全球土壤伙伴关系	Yuxin Tong/ Ronald Vagas, 联合国粮农组织 全球土壤 伙伴关系
12:00-13:00	午餐：三楼雅库特厅、通古斯厅	
13:30-15:00	计划和前瞻	Mr. Yuxin Tong/ Ronald Vagas, 联合国粮农组织 全球土壤 伙伴关系
	4.INBS 工作计划 2018-2020 - 会议产出文件 - 建议 - 全球黑土现状书籍	
15:00-15:15	茶歇	
15:15-17:00	5.INBS 工作计划 2018-2020 INBS 项目设计 - 粮农组织 - 南南合作中国项目 - 其它项目	Mr. Yuxin Tong/ Ronald Vagas, 联合国粮农组织 全球土壤 伙伴关系
	联合国粮农组织国际黑土联盟副主席任命 提名 2019 年全会地点	
18:30-20:00	晚餐：三楼雅库特厅、通古斯厅	



September 12 th , 2018		Meeting place: 3 rd Serbin hall 2 nd floor
TIME	ITEM	MODERATOR
8:30-10:00	Framework discussion	Mr. Yuxin Tong/ Mr. Ronald Vargas, FAO,GSP
	Framework discussion of the INBS : -- Definition of a Black Soil -- Objectives of the INBS 1. Ms. Rosa Cuevas Corona, GSP, FAO. 2. Mr. Yuxin Tong, GSP, FAO.	
10:00-10:15	Tea Break	
10:15-12:00	Framework of the INBS -- Members of INBS -- Preparation of work plan 2018-2020 3. Mr. Yuxin Tong, GSP, FAO.	Mr. Yuxin Tong/ Mr. Ronald Vargas, FAO,GSP
12:00-13:00	Lunch:Yakurt hall and Turgus hall , 3 rd floor	
13:30-15:00	Work plan and way forward	Mr. Yuxin Tong/ Mr. Ronald Vargas, FAO,GSP
	4. INBS 2018-2020 -- Recommendations - outcome document -- The status of global black soils-book	
15:00-15:15	Tea Break	
15:15-17:00	5. INBS work plan for 2018-2020 Project with INBS contribution - (60 minutes) --FAO-South-South cooperation project of China --Other projects	Mr. Yuxin Tong/ Mr. Ronald Vargas, FAO,GSP
	Nomination of a Vice- Chairman of INBS Venue of the 2019 meeting	
18:30-20:00	Dinner:Yakurt hall and Turgus hall , 3 rd floor	



专家介绍 - 外方专家

Experts Introduction



Ronald Vagas

联合国粮农组织全球土壤伙伴关系秘书长

罗纳德是粮农组织的一名土壤和土地管理人员,自2011年以来,他领导实施全球土壤伙伴关系。他是玻利维亚土壤科学家,有超过15年的自然资源管理(研究、学术和开发)工作经验,重点是粮食安全和生态系统服务的可持续土壤管理。他的专业知识包括土地适宜性和土地退化评估、土地利用规划、土壤测绘和土壤管理,以适应拉丁美洲、非洲、近东和亚洲的气候变化。他是国际土壤年、订正的《世界土壤宪章》、《世界土壤资源状况报告》和《可持续土壤管理自愿准则》的促进者。

Secretary of the Global Soil Partnership

Ronald is a Soil and Land Officer at FAO and since 2011, he is leading the implementation of the Global Soil Partnership. He is a Bolivian soil scientist with more than 15 years of working experience (research, academic and development) in natural resources management with a focus on sustainable soil management for food security and ecosystem services. His expertise includes land suitability and land degradation assessment, land use planning, soil mapping and soil management for climate change adaptation in Latin America, Africa, Near East and Asia. He has been the promoter of the International Year of Soils, the revised World Soil Charter, the Status of the World's Soil Resources Report and the Voluntary Guidelines for Sustainable Soil Management.



Yu xin Tong

联合国粮农组织协理专业高级职员

佟玉欣是一位来自中国的土壤研究员。他拥有中国农业大学计划营养学博士学位。在加入粮农组织之前，他在中国东北黑龙江省农业科学院土壤肥料与环境资源研究所工作了九年。他的研究集中在黑土地区作物转化对环境的影响。佟玉欣今年加入粮农组织，协调国际黑土网络 (INBS) 的活动。

GSP Associate Professional Officer

Yuxin Tong is a soil researcher from China. He holds a Doctor Degree in Plan Nutrition from China Agricultural University. Before joining FAO, he worked at the Institute of Soil Fertilizer and Environment Resources of the Heilongjiang Academy of Agriculture Science in Northeast China for nine years. His research focuses on the environmental effects of crop conversion in the black soil region. Yuxin joined FAO this year to coordinate the activities of the International Network of Black Soil (INBS).



Skye Angela Wills

美国农业部土壤科学司 首席土壤专家

就职于美国农业部 (USDA)。土壤科学家，2009 至今 (9 年)，在林肯东北区进行动态土壤特性的抽样设计和数据分析；2007 - 2009(2 年)，拉斯克鲁塞斯，新墨西哥州地区，做博士后工作，主要从事动态土壤特性研究；2005 - 2007(2 年)，马里兰大学帕克分校，教师研究助理；1999 - 2005，爱荷华州立大学，哲学博士，土壤科学博士。1995 - 1999，堪萨斯州立大学，学士学位，农学和作物科学



Ms. Skye Wills, United States Department of Agriculture (USDA), USA

Doctor of Philosophy (Ph.D.), Soil Science
Experience

2009 – Present (9 years) Lincoln, NE ,
Soil Scientist, USDA-NRCS, Dynamic Soil
Properties, Agronomic and Intensively Managed
Ecological Sites, Sampling Design, Data Analysis

2007 – 2009 (2 years) Las Cruces, New Mexico
Area, Postdoctoral Researcher, Dynamic Soil
Properties, Multi-scale Sampling Sufficiency

2005 – 2007 (2 years) College Park, Maryland,
Faculty Research Assistant, University of Maryland

1999 – 2005, Iowa State University, Tidal
Marsh Restoration/Accretion, Drainage Ditch Soi

1995 – 1999, Kansas State University,
Activities and Societies: Soil Morphology and
Genesis



**Luca
Montanarella**

**欧盟科学联合中心环境司/政府间土壤专家组首席
土壤专家/主席**

Luca Montanarella 博士于 1984 年毕业于意大利佩鲁贾大学农业工程专业。1985 年，他在荷兰莱顿大学 (University of Leiden) 和 1986 年在荷兰格罗宁根大学 (Groningen University) 分别从事普通和无机化学、(微)生物和有机化学、医疗、制药和医疗器械等领域的博士后研究。

1986 年至 1991 年，他在美国帕洛阿尔托瓦里安联合公司担任质谱仪和色谱专家；从 1991 年到 1992 年，他是意大利农业部的首席行政官。自



1992 年以来，他一直担任欧洲共同体委员会联合研究中心的科学干事。从 2001 年到 2003 年，他担任 JRC 环境与可持续发展研究所欧洲土壤局项目主任。

自 2003 年以来，他是 JRC 新行动“土壤数据和信息系统”) 的负责人。蒙塔纳雷拉博士有 200 多份出版物、书籍和报告，并获得许多奖项和会员资格。

Chief of the European Union of science joint centres / intergovernmental expert group on Soil, Soil Specialist / Chairman

Dr. Luca Montanarella graduated in Agricultural Engineering at the University of Perugia, Italy in 1984. He did post-doctoral studies related to generic and inorganic chemistry, (micro)biology and organic chemistry, healthcare and pharmaceuticals and medical devices at the University of Leiden, the Netherlands in 1985 and at Groningen University, the Netherlands in 1986.

From 1986 to 1991, he served as Mass Spectrometry and Chromatography Specialist at Varian Associates, Palo Alto, USA; and from 1991 to 1992 he was the principal administrator at the Italian Ministry of Agriculture. Since 1992, he has been working as scientific officer at the Commission of the European Communities, Joint Research Centre (JRC). From 2001 to 2003 he headed the European Soil Bureau project, Institute for Environment and Sustainability, Soil and Waste unit, JRC.

Since 2003 he is the head of the new JRC action “Soil Data and Information Systems” (SOIL). Dr. Montanarella has more than 200 publications, books and reports, and has received numerous awards and memberships.



Xiaoying Liu

总监 / 总空间规划顾问

交流策划人 / 荷兰注册建筑师

中欧土地与土壤专家委员会成员，中欧城镇化合作平台注册专家，欧盟地平线 2020 评审专家，企业与生物多样性平台观察员。

Director / Chief Spatial Planner, Communication Strategist / Netherlands Reg. Architect

Expert of Sino-China Panel of Land & Soil, Reg. Expert of EU-China Urbanisation Leadership Program Platform | EU Horizon2020 Evaluation Expert / B@B Platform Observer



Ivan Vasenev

莫斯科州立大学首席土壤专家/教授

俄罗斯 Timiryazev 国立农业大学农业生态监测、生态系统建模和预测实验室的生态学系主任。1984 年毕业于莫斯科州立大学土壤科学系；获得博士学位（1987 年），密歇根州立大学 Sci 博士（生物学：土壤科学与生态学 - 2003），他已经开发了 3 个 DSS，出版了 179 本书籍、手册和论文，其中包括国际期刊，组织了数次国际会议、暑期学校和实地考察。

Moscow State University, Chief scientist of soil

Prof. Dr. Ivan Vasenev is the Head of Ecology Department and of the Laboratory of Agroecological Monitoring, Ecosystem Modeling and Prediction, Russian Timiryazev State Agricultural University, Moscow. He graduated from Moscow State University (MSU), Soil Science faculty, 1984; got the Ph.D. (1987), Dr. Sci. (Biology: Soil Science and Ecology - 2003), MSU. He has developed 3 DSS and published 179 books, manuals and papers, including those in international journals, organized several international conferences, summer schools and field tours.



**Khodakivska
Olga**

国家科学中心

“农业经济研究所” / 国家地质局 主任

经济学博士，乌克兰，国家科学中心“土地经济研究所”国家地质局主任，研究方向：在欧洲一体化条件下发展乌克兰农业部门的前景。完成乌克兰土地改革的方向。探索形成农业土地市场。根据当前市场条件，改善农业土地租赁，改进土地关系转型科学研究。有效利用农业用地，合理和环境导向的土地利用，灌溉农业创新效率的方向。

Doctor of economics, Ukraine, working in Head Land relation department in The National scientific centre “Institute of agrarian economics” ;

Field of researches: Prospects for the development of the Ukraine’s agricultural sector in conditions of European integration. Directions for the completion of land reform in Ukraine. Explore the forming the agricultural land market. Organization and development of scientific researches on transformation of land relations according to the current market conditions, improvement of land leasing in agriculture sector. Directions of efficient use of agricultural land, rational and environmentally oriented land utilization, efficiency of innovations in irrigable agriculture. Evaluation of effectiveness organic agriculture.



Voloshenkov

乌克兰的农业党 顾问

乌克兰农业党咨询师，鲍里斯·沃洛申科夫是在医药领域，经济安全和国际关系的专家。他还在为乌克兰境内的外国客人组织法律保障方面拥有丰富的经验。沃洛申科夫先生长期担任敖德萨地区州长关于欧洲一体化和区域发展问题的顾问，一段时间沃洛申科夫先生在欧洲联盟边境援助中担任联络官。

Counselor , the Agrarian party of Ukraine.

Boris Voloshenkov is an expert in the fields medicine, economic security and international relations. He also has considerable experience in organizing legal security for foreign guests on the territory of Ukraine. Also Mr. Voloshenkov acted for a long time as a counselor to the governor of the Odessa region on issues of European integration and regional development for a period of time Mr. Voloshenkov held the position of the liaison officer in\with the European Union Border Assistance Mission (EUBAM).



Xiaoyuan Geng

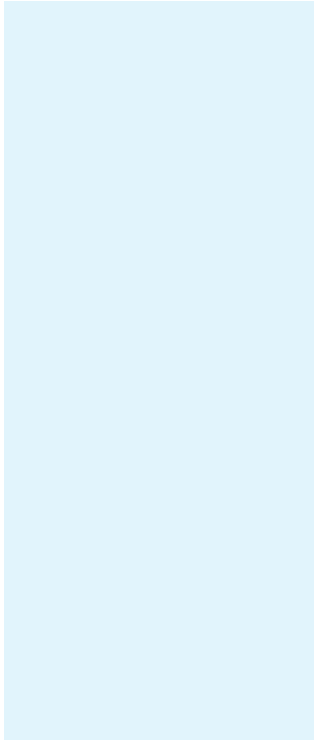
加拿大农业与食品部 首席土壤专家/主任

物理科学家专长领域：土壤成因与数字土壤制图地理空间统计和大数据计算、互联网地理空间数据处理与可视化、地学，生态系统建模和商业智能，当前的项目：可持续农业的土壤、土地利用和土地生产力数据、利用遥感数据进行植物病害评估和预报、加拿大东部的氮和沉积物减少、加拿大伊利湖盆地的磷和沉积物减少、加拿大可持续发展指标的地形数据，社会兼职：博士候选人，卡尔顿大学、加拿大 ISO TC207 委员会成员、加拿大数字土壤协会技术委员会成员。



Geng, Xiaoyuan, Physical scientist – Soil and Soil Landscape Science

Areas of Expertise: Soil genesis and digital soil mapping、 Geospatial statistics and big data computing、 Internet geospatial data processing and visualization、 Geomatics, ecosystem modeling and business intelligence, Current Projects : Soil, land use and land productivity data for sustainable agriculture、 Plant disease assessment and forecasting using remotely sensed data、 Nitrogen and sediment reduction in Eastern Canada、 Phosphorus and sediment reduction in Lake Erie basin, Canada、 Physiographic data for sustainability metrics in Canada, Affiliations: Ph.D. candidate , Carleton University、 Canadian member of ISO TC207 committee、 Member of technical committee of Canadian digital soil consortium.



哈萨克斯坦U.Uspanov Kazakh土壤科学与农业化学研究所，教授

生物科学带头人，哈萨克斯坦共和国农业部土壤科学和农业化学研究所土壤、地理和评估系负责人。1990年研究生毕业于哈萨克斯坦共和国国家科学院土壤科学研究所（NAS RK）。参与联合国开发计划署项目《对作为候鸟栖息地的全球重要低地的重要保护》，并担任生态系统专家。“旱地管理项目”土壤科学小组组长。2006-2007年领导第三部分研究《评估和监测碳封存》。2004-2009年参与世界重建与发展银行的全球生态基金会。2014年参加哈中合作研究气候变化及其对中亚干旱地区生态系统影响的项目，担任实地考察负责人。



**Pachikin
Konstantin**

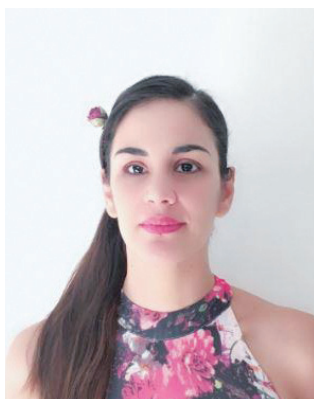




Konstantin M. Pachikin- Institute of Soil Science and Agrochemistry, U.Uspanov Kazakh, professor.

Candidate of Biological Sciences, Head of Genesis, Geography and Valuation of soils department, Institute of Soil Science and Agrochemistry, Ministry of Agriculture, Republic of Kazakhstan. 1990 Post-graduate course at Institute of Soil Science, National Academy of Sciences, Republic of Kazakstan (NAS RK).

Ecosystem specialist UNDP project «Complex conservation of priority global-significant low lands as inhabitations of migrating birds». 2006-2007. Soil science team leader of “Drylands management project”. Component 3. Assessment and monitoring of carbon sequestration. World Bank of Reconstruction and Development, Global Ecologic Foundation. 2004-2009. Head of field expedition under the project of the Kazakhstan-Chinese joint cooperation on studying of climate fluctuation and its influence on ecosystems of arid territory of the Central Asia. 2014.



**Rosa Cuevas
Corona**

联合国粮农组织土壤与水资源司-专业助理

Rosa Cuevas Corona 是墨西哥科学家，毕业于墨西哥国立自治大学生态研究所陆地生物地球化学和气候实验室的土壤科学专业。她曾参与联合国开发计划署和 CONAFOR 的国家林业和土壤清单方面的工作。她曾在国家实验室网络中担任协调员工作。她于 2018 年 3 月加入联合国粮农组织全球土壤伙伴关系。她目前正在领导土壤有机碳 (SOC) 相关的项目，如世界土壤中碳固存的潜力、全球 SOC 监测系统 and 区域 SOC 管理技术等。同时协助中美洲区域土壤伙伴关系、加勒比和墨西哥土壤伙伴关系以及拉丁美洲土壤实验室网络等相关工作。

Rosa Cuevas Corona- FAO- GSP Soil International Consultant

Rosa is a Mexican scientist who graduated in Soil Sciences at the UNAM's Terrestrial Biogeochemistry and Climate Laboratory of the Institute of Ecology. She has gained extensive expertise on soil carbon working for the UNDP and the CONAFOR's National Forestry and Soil Inventory. She was the coordinator of the National Network of Laboratories for the Analysis, Use, Conservation and Soil Management within the framework of Thematic Networks of CONACyT. She has joined the GSP in March 2018. She is currently coordinating and developing projects related to soil organic carbon (SOC) such as the potential of carbon sequestration in world soils, the global SOC monitoring system and the technical manual on SOC management at the regional and sub-regional scale. She is also serving as the regional coordinator for the Central America, Caribbean and Mexico Soil Partnership and for the Latin American Soil Laboratory Network.



**Mykola
Miroshnychenko**

乌克兰国家科学院索科洛夫斯基土壤研究所 副 所长/教授

乌克兰国家科学中心“土壤科学与农业化学研究所”科学部副主任，农业化学系主任。

研究经历：1988 - 1991 长期施肥对土壤胶体性质的影响，1991 - 1993 研究盐溶液污染下土壤胶体性质的变化，1993 - 1994 岩石工艺对土壤覆盖的影响研究，1994 - 2000 研究土壤中重金属和石油的污染，2000 - 2007 建立了土壤稳定性学说的方法论，对土壤的稳定性进行了分类，2007 年乌克兰允许人为影响土壤覆盖的发展生态评价，2007 - 2008 实施农业化学服务和农业化学教育的新方法，2008 - 至今组织有关土壤科学、农业化学、土地利用和土壤保护等方面的基础和应用研究，协调其他研究所的土壤研究。植物矿质营养发育诊断、土壤监测系统。

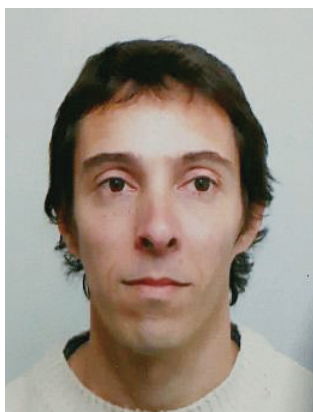
Family name: Miroshnychenko, First name(s): Mykola, Year of birth: 1963 Nationality: Ukrainian Civil status: married, Organization: The National Scientific Center “Institute for Soil Science and Agrochemistry Research named after O.N.Sokolovsky” (NSC ISSAR), Present position: Deputy Director of Science, Head of Agricultural Chemistry Department.

Institution: National Scientific Center “Institute for Soil Science and Agrochemistry Research named after O.N.Sokolovsky” (2003-2005), Degree(s) MSc, Description: Biology (Soil Science)

Professional experience: 1988 - 1991 Research changes of soil colloidal properties under long-term using of fertilizers, 1991- 1993 Research changes of soil colloidal properties under contamination of salt solutions, 1993- 1994 Research impact of petrocrafts on the soil cover, 1994 - 2000 Research soil



contamination by heavy metals and oil, 2000 - 2007 Creation the methodology of the doctrine about soils' stability, classification of soils on their stability to contamination. 2007 Development ecological rating of permissible anthropogenic impact on the soil cover in Ukraine, 2007-2008 Implementation of new methods of agrochemical service and agrochemical education, 2008- till now Organization fundamental and applied researches on related to soil science, agro-chemistry, land-use and soil preservation, coordinating research of soils in other institutes. Development diagnosis of mineral nutrition of plants, methods of "precision agriculture", system of soil monitoring.



**Marcos
Esteban.Angelini**

阿根廷土壤研究所

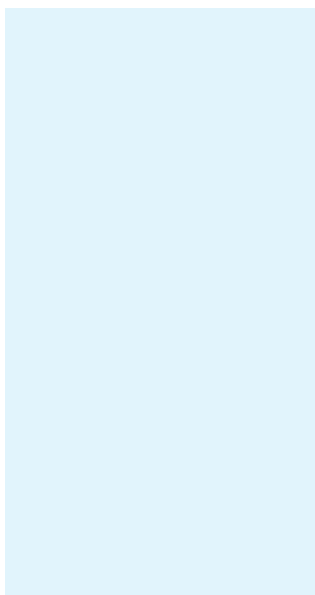
Marcos 参与了多个土壤测绘、土地评估、土壤信息系统和土地利用相关项目。作为一名研究员，他参加了多次与土壤科学有关的国内和国际会议。

曾经担任制图和土地评估部主席。

曾经主持过数字土壤制图项目：土壤调查新技术的应用和验证。该项目的主要内容是建设试验区 and 开发土壤信息。他推动建立基于网络的土壤信息系统 (SISINTA), 以及相关的培训和研讨会。

Soils Institute, Natural Resources Research Centre, Argentina.

He participated in several institutional projects related to soil mapping, land evaluation, soil information system, and land cover/land use.



As a researcher, he attended several national and international conferences related to soil science.

Chair of Cartography and land evaluation department.

Project: Digital soil mapping: application and validation of new technologies for soil survey. The main activities of this project were to establish pilot areas for capacity building and for developing soil information. He promoted building a web-based soil information system (SISINTA), as well as training and workshops on DSM.



Saparov Abdulla

哈萨克斯坦U.Uspanov Kazakh土壤科学与农业化学研究所 所长/教授

哈萨克斯坦国家土地研究学术中心教授。哈萨克斯坦土壤科学学会会员，VAK RK 农业文化和兽医科学咨询委员会成员和科学秘书（1998-2003）。280 项研究成果，其中专著 4 部，建议书 6 篇，获得创新专利 2 项。农业文化政府 VNTK 组成员（2001-2003, 2005 - 至今）2000 年至 2003 年，俄罗斯新闻社 nauki Kazakhstana 副编辑国际“农业联盟”理事会成员，国际杂志《农业化学与生态学问题》编委会成员（2006 年至今），KazNIIPiA 总经理，美国农业化学与土壤科学系教授乌斯帕诺夫哈萨克土壤科学与农业化学研究所（哈萨克斯坦阿拉木图）（2003 年至今）。





Dr. Saparov Abdulla

Professor. He got PhD degree in Kazakh National Agrarian University in 1997. From 2003 to today, General Director of KazNIIPiA, professor of department of agri chemistry and soil science in U.U. Usmanov Kazakh Research Institute of soil science and agri chemistry (KazNIIPiA) (Almaty, Kazakhstan). Currently interest is Efficiency of productivity cultures, qualities and their safety. Research field is Soil Science and Agrochemistry. Member of the RTC JSC "KazAgroInnovation": 2008 – present. Member of the Council of International "Agrichemunion", member of editorial board of the International magazine «issues of agrichemistry and ecology»: 2006 – present. Member of the RTS «Center of biological researches», Ministry of Education and Science RK: 2005 – present.



Ciolacu Tatiana

摩尔多瓦国家农业土壤植物保护研究所 科研处长/教授

生物学博士。2006年10月至2009年10月，农业化学与土壤保护研究所博士毕业。2016年至今，摩尔多瓦共和国土壤化学与土壤保护研究所科学秘书，摩尔多瓦共和国土壤科学协会会员。2015年12月至2018年1月，摩尔多瓦科学院研究灌溉土壤遗传过程的研究、监测、演变的预后及土壤改良措施的制定以恢复和提高土壤肥力(制度项目)。2014年3月至2016年1月，高级科学研究人员，保护区土壤营养状况研究。2009年，摩尔多瓦科学院青年研究人员因“巴尔蒂草原典型土壤黑钙土研究”而获得杰出成果奖。



Ciolacu Tatiana

PhD in Biology

January/2016 to present , working in Institute of Pedology, Agrochemistry and Soil Protection “Nicolae Dimo” as Scientific secretary . Diploma of PhD in Biology, issued on May 21, 2010, nstitute of Pedology, Agrochemistry and Soil Protection “Nicolae Dimo”, Laboratory of Pedology; Diploma on Soil Sciences, issued on 07 July, 2006, Moldova State University, Department of Biology and Soil Sciences. Scientific secretary, Institute of Pedology, Agrochemistry and Soil Protection “Nicolae Dimo”. Laureate of the Academy of Sciences of Moldova Prize for Excellent Results of Young Researchers obtained in 2009 for the cycle of works "Study of arable Typical Chernozems in Balti Steppe".



YIYI SULAEMAN

印度尼西亚农业部农业土地研究中心

首席土壤专家/教授

印度尼西亚农业土地资源研究与开发中心 (ICALRD), 印度尼西亚农业部农业研究与开发机构副主任。印尼茂物农业大学土壤科学博士 (2012), 菲律宾大学洛杉矶分校土壤科学硕士 (2004), 印尼土壤科学协会会员。2013 年起担任印尼土壤与气候杂志编辑。2017 年印度尼西亚农业土地资源研究与开发中心, 以土壤科学家身份通过土壤特性映射来描述问题土壤, 以支持印度尼西亚的农业商品开发, 发展基于网络的农业信息系统 (InaAgriMap)。

YIYI SULAEMAN

PhD in Soil Science, Bogor Agricultural University, Bogor, Indonesia (2012), MSc in Soil Science, University of the Philippines at Los Banos (2004). Wroking in Indonesian Center for Agricultural



Land Resource Research and Development (ICALRD), Agency for Agricultural Research and Development, Indonesian Ministry of Agriculture. Editor, Indonesian Soil and Climate Journal since 2013. In 2017, as a soil scientist, he works in Indonesian Center for Agricultural Land Resource Research and Development Characterizing problem soils thru soil properties mapping to support agricultural commodities development in Indonesia



**Hakki Emrah
Erdogan**

土耳其农业部 土壤领域国际顾问

欧洲委员会 (EC-JRC), 环境与可持续发展研究所 (IES), 意大利 (2009-2013 年)

土耳其土壤科学系农学院 (2001-2008) 安卡拉大学农业生态可持续农业与粮食安全决策支持系统博士, 瑞士日内瓦大学地质与气候相关风险评估与管理专业文凭, 西班牙萨拉戈萨地中海农学研究所 (IAMZ-CIHEAM) 农村发展规划研究生 (2002-2003), 土耳其安卡拉大学农业学院土壤科学系理学学士 (1994-1998)。

15 年以上自然资源管理经验, 关注土壤、土地退化、可持续农业和气候变化,

联合国防治荒漠化公约国际顾问, 总部设在土耳其安卡拉 (2016 年 7 月至今), 土耳其安卡拉土地改革总理事会粮食、农业和畜牧业部高级科学 / 政策顾问 (2013 年 4 月至今), 欧洲委员会科学干事 - 意大利国际农业资源局环境和可持续性监测研究所联合研究中心。(2010 年 4 月至 2013 年 4 月), 独立的科学官员, 欧洲委员会 - 联合研究中心, 环境和可持续性土地管理和危害单位, 意大利, Ispra。(2009 年 6 月至 2010 年 4 月)。



Hakki Emrah Erdogan

Bc.S, Mc.S and Ph.D degrees in soil science

Post-Doc on Land Management and Hazards, European Commission (EC-JRC), Institute Environment and

Sustainability (IES), Italy (2009-2013), Ph.D on Decision Support system by using agroecological approach for Sustainable Agriculture and Food Security, Ankara University, Faculty of Agriculture, Dept. of Soil Science, Turkey, (2001-2008)

Over fifteen years' experience on natural resources management with a focus on Soil/Land Degradation, Sustainable Agriculture and Climate Change.

International Consultant, UN Convention of Combat Desertification, The Global Mechanism, Home based, Ankara, Turkey (July 2016 to present); Senior Science/Policy Advisor, Ministry of Food, Agriculture and Livestock, General Directorate of Agrarian Reform, Ankara, Turkey, (April 2013 to present); Scientific Officer European Commission- Joint Research Centre, Institute Environment and Sustainability Monitoring of Agricultural Resources Unit, Ispra, Italy. (April 2010 to April 2013); Detached Scientific Officer, European Commission- Joint Research Centre, Institute Environment and Sustainability Land Management and Hazard Unit, Ispra, Italy. (June 2009 to April 2010); Project Officer, Ministry of Agriculture and Forest, General Directorate of Agrarian Reform, Ankara, Turkey, (Aug2006 to June 2009); Land / Soil Monitoring Specialist, Helsinki University, Faculty of Science, Dept. of Geoinformatics, Helsinki, Finland, (Jan-Aug 2006); Research Assistant, Ankara University, Faculty of Agriculture, Department of Soil Science, Ankara, Turkey (Nov 1998- Jan 2006)



Ademir Fontana

德·格鲁波斯·德·佩斯奎萨-Embrapa农业研发中心 首席土壤专家/顾问

巴西联邦农村大学农学学士 (1998-2004), 巴西联邦农村大学农学硕士 (2005-2006), 巴西联邦农村大学农学博士 (2006-2009)。在农学方面有丰富的经验, 主要研究土壤的成因、形态和分类, 涉及的学科有: 有机材料、有机碳、腐殖质和单质。2015 年研究里约热内卢: 卡拉卡塔尔卡托克的土壤和矿物不含湿化过程项目。

Ademir Fontana

2015 - Present Type of contract: Colaborator;

07/2015 – Present Teaching, AGRICULTURA TROPICAL

2006 - 2009 Ph.D. in Agronomia .Universidade Federal Rural do Rio de Janeiro, UFRRJ, Brasil. Year of degree: 2009. Advisor: Marcos Gervasio Pereira. Grantee of: Conselho Nacional de Desenvolvimento Científico e Tecnológico ,CNPq ,Brasil . 2005 – 2006 Master's in Agronomia. 1998 – 2004 Graduation in Agronomia



Carlos Horacio Clerici Lorente

乌拉圭农业畜牧业渔业部 所长/教授

土壤农业科学系教授。1958 年 12 月 27 日于 Montevideo. Uruguay 出生, 乌拉圭企业大学土壤农业科学系教授 (2014- 今), 兼任乌拉圭土壤科学学会主任, 主要从事土壤和水的管理和养护、土壤学、教学和研究活动。2010 年 3 月至今乌拉圭牲畜、农业和渔业部自然资源司土壤和水资源司司长 (任命)。1983 年至 2010 年, 担任总局技术员; 1985 年乌拉圭东方共和国大学任农学教师, 2012 年乌拉圭东方共和国农学院农业科学方向土壤科学硕士学位。



电子邮件 :cclerici@mgap.gub
uy,clericicar@gmail.com

Head of the Division of Soils and Water Division of the General Directorate of Natural Resources of the Ministry of Livestock, Agriculture and Fisheries of Uruguay (by appointment) from March 2010 to date. Director of the Uruguayan Society of Soil Science. From 1983 to 2010, technician of the General Directorate, Assistant Professor Gr, 3 Department of Soils and Waters. Management and Conservation of Soils and Waters. Faculty of Agronomy of the University of the Oriental Republic of Uruguay. Admission by contest of opposition and merits in 1992, Professor of Soils Faculty of Agricultural Sciences of the University of the Enterprise of Uruguay. From 2014 to date. Master's Degree in Agricultural Sciences orientation Soil Sciences. Faculty of Agronomy, University of the Oriental Republic of Uruguay, 2012



**Toma Angelov
Shishkov**

保加利亚土壤农业植物保护研究所

首席土壤专家/教授

农学博士。保加利亚土壤科学协会会员，1993年11月毕业于土壤科学研究所，指导教授博士多库恰耶夫；1994-2004任职于普什卡罗夫土壤科学与农业生态学研究所，2005-2014系土壤科学副教授；其工作主要从事于土壤化学和物理学，对土地可持续利用、土壤退化过程及治理具有重要意义



PhD in Agriculture, soil science. Now Associate Professor in soil science at the department of “Genesis, geography and classification of soils”. PhD was obtained in the Institute of Soil Science “V.V. Dokuchaev” Moscow, Russia. Working in Agricultural Academy, Institute of soil science, agrotechnology and plant protection “Nikola Poushkarov”. Professional interest is Professional and international scientific projects concerning sustainable land use, soil degradation processes and conservation, soil classification systems, humic substances content and composition, soil chemical and physical properties, monitoring, diagnostic properties, soil survey, soil map unit, genesis, nomenclature, pedology.



**Kutaiba M.
Hassan**

巴格达大学土壤管理系 首席土壤专家/教授

农业土壤学博士。于1984年在美国哥伦比亚州密苏里大学取得博士学位，其主要研究领域是土壤物理学和土壤水分研究。1985-1992年就职于巴格达大学农学院教授。1992 - 1997，被任命为伊拉克驻联合国粮农组织代表。2011- 在伊拉克农业部计划与后续办公室担任主任。他领导了多项国家级土壤及黑土发展项目。参与领导了国家生态区域规划。

参与了很多国际组织的工作。发表了四十余篇国际文章。近期被提名为联合国粮农组织政府间土壤专家组成员（ITPS）。并参与联合国粮农组织国际黑土联盟（INBS）的相关工作，致力于伊拉克黑土可持续发展。

Kutaiba M. Hassan, Doctor of Agronomy, Soil Science.



In 1984, he received his doctorate degree from the University of Missouri, Columbia, USA. His main research fields are soil physics and soil moisture research. In the 1985-1992 year, Dr. Kutaiba M. Hassan was employed by Professor of agriculture at the University of Baghdad. 1992 - 1997, Dr. Kutaiba M. Hassan was appointed as the representative of Iraq to the FAO. 2011- is the director of the Iraq agriculture ministry's planning and follow-up office. He led a number of national soil and black soil development projects. Participated in leading the national ecological regional planning.

Dr. Kutaiba M. Hassan participated in the work of many international organizations. More than forty international articles have been published. Dr. Kutaiba M. Hassan was recently nominated as a member of the Intergovernmental Group of Soil Experts (ITPS) of the Food and Agriculture Organization of the United Nations. He also participated in the relevant work of the International Black Earth Union (INBS) of the Food and Agriculture Organization of the United Nations (FAO), committed to the sustainable development of Iraq's black soil.

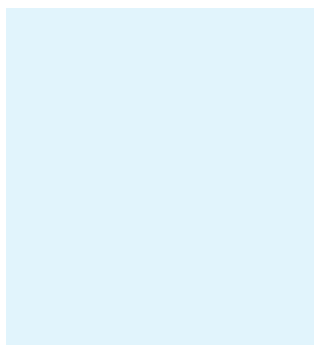


Martin Saksa

斯洛伐克国家农业食品公司土壤保护研究所

专业：土壤科学，实地研究，土壤制图，土壤分类。地理信息系统专家，在国家农业和食品中心土壤科学和保护研究所从事科学研究。1996年9月至2001年6月，在布拉迪斯拉发的夸美纽斯大学地理和制图，取得自然地理学博士学位，并在自然科学学院地质生态学工作。

Martin Saksa- National Agricultural and Food Centre, Soil Science and Conservation Research Institute, Slovakia. Research worker in Soil Science,



Field research, Soil mapping, Soil classification, GIS specialist, National Agricultural and Food Centre, Soil Science and Conservation Research Institute, Scientific research, Agriculture sector. From September 1996 to June 2001, Geography and Cartography, Physical Geography and, Comenius University in Bratislava, Faculty of Natural Sciences Geoecology, Landscape Planning, PhD.



Jose da Graca Tomo

莫桑比克农业研究所

土壤科学家，自从 1992 年加入莫桑比克农业研究所以后，长期从事土壤调研工作，参加 10 余项土壤调研项目。2006-2010 年在 Pedo 大学地理系学习，并取得学位

Jose da Graca Tomo, soil surveyor at Mozambique Agricultural Research Institute (IIAM)

Soil surveyor at National Agrarian Research Institute - Mozambique, since 1992, and have participated:2006 - 2010 (Universidade Pedagógica de Maputo): graduation in Pedo – Geography.



Bazarradnaa Enkhtuya

蒙古生命科学大学农学院 首席土壤专家/教授

研究生毕业，蒙古达尔坎植物科学农业研究所，主要研究氮肥对土壤肥力和植物产量的影响，爱好骑马和阅读书籍，蒙古土壤研究协会会员。2006 年东北农业大学保护农业专业毕业，1987 - 1991，蒙古达尔坎植物科学农业研究所，农业化学研究人员；1991 - 1995，蒙古达尔坎植物科学农业研究所，土壤 - 农业化学实验室主任；1995 - 2000，蒙古达尔汗农业大学植物科学农业研究训练研究所，土壤科学和农业化学讲师；





2000 -2006, 植物科学农业研究与训练研究所, 农业部门负责人; 2006 – 2008, 植物科学农业研究与训练研究所, 土壤科学和农业化学讲师; 2008 – 2018, 植物科学农业研究与训练研究所, 环境科学与农业化学高级讲师, 现研究蒙古国土壤有机碳储量与气候变化的关系

ENKHTUYA BAZARRADNAA

Graduated from North-East Agricultural University, China in 2006, Her hobbies include Horse riding Reading books. Working experience are such as: 1987 – 1991, Plant Science Agricultural Research Institute, Research worker for Agrochemistry; 1991 – 1995, Plant Science Agricultural Research Institute, Head of Soil –Agro chemistry laboratory; 1995 – 2000, Plant Science Agricultural Research and Training Institute, Instructor of soil science and agro chemistry; 2000 -2006, Plant Science Agricultural Research and Training Institute, Head of Agronomy Department Head of Agronomy Department; 2006 – 2008, Plant Science Agricultural Research and Training Institute, Senior lecturer of soil science and Foreign affairs manager; 2008 – 2018, Plant Science Agricultural Research and Training Institute, Senior lecturer of Environmental science and Agro chemistry.



专家介绍 - 中方专家

Experts Introduction



韩贵清
Guiqing Han

二级研究员，中共党的十八大代表。曾任黑龙江省农业科学院院长兼党组书记、黑龙江现代农业研究院院长，黑龙江省农业委员会第一副主任。现任联合国粮农组织国际黑土联盟主席、黑龙江省人民政府参事，国际农业教育科学院院士、国际农业经济研究中心主任、英国皇家农业大学教授、国家草产业科技创新联盟副理事长、黑龙江省农学会理事长，黑龙江省草业协会会长。中国农业科学院博导、东北农业大学教授，博导，哈尔滨师范大学博导，甘肃农业大学教授、博导，农业部第八届、第九届科学技术委员会委员。先后以第一名荣获国务院科技进步二等奖 1 项、黑龙江省人民政府科技进步一等奖 2 项和黑龙江省省长特别奖 3 项。荣获国务院政府特殊津贴、农业部第三届中华农业英才奖，农业部全国农技推广标兵，CCTV2006 中国十大三农人物，中共黑龙江省委、省人民政府优秀中青年专家。多次在中国工程院、北京大学、中央党校、联合国开发计划署、联合国粮农组织、第三届和第五届全球农科院院长高层研讨会等大会上作报告。多次在农业部全国农业人才工作会议、农业部全国农业科研教育工作会议、黑龙江省委人才工作会议等大会上介绍经验。创建的院县共建新模式，被农业部列入全国十大农技推广新模式，在全国推广，2012 年和 2013 年写入中央一号文件。首次提出了论文写在大地上，成果留在农民家的创新理念，写入第三届全球农科院院长高层研讨会哈尔滨宣言。出版专著 10 部，发表论文一百多篇。

Guiqing Han, Researcher fellow II, The 18th representative of the Communist Party of China. Former president and party secretary of Heilongjiang Academy of Agricultural Sciences, first deputy



director of Heilongjiang provincial agriculture committee. Current chairman of the international federation of black soil of the United Nations food and agriculture organization, Heilongjiang provincial people's government counselor, academician of education academy of sciences of international agriculture, director of international agricultural economy research center, professor of royal agricultural university of the United Kingdom, vice President of national association for scientific and technological innovation of grass industry, President of Heilongjiang provincial society of agriculture and President of Heilongjiang provincial association of grass industry. Doctoral tutor of Chinese Academy of Agricultural Sciences, Northeast Agricultural University, Harbin Normal University, and is the professor of Northeast Agricultural University and Gansu Agricultural University, member of the eighth and ninth science and technology committees of the ministry of agriculture. Won 1 of the state council science and technology progress second prize, 2 of Heilongjiang provincial people's government science and technology progress first prize and 3 of special awards of Heilongjiang provincial governor. Awarded the state council special allowance, the third China agricultural talents award of the ministry of agriculture, the national agricultural technology promotion model of the ministry of agriculture, CCTV2006 China's top 10 figures serving to agriculture, rural areas and farmers, an outstanding young and middle-aged expert of Heilongjiang provincial party committee and provincial people's government. Reported at the Chinese academy of engineering, Peking University, the central party school, the United Nations development programme, the United Nations food and agriculture organization, and the third and fifth global symposium of heads of agricultural science. Shared experience in the ministry of agriculture national agricultural talent



work conference□the ministry of agriculture national agriculture branch education work conference, Heilongjiang provincial party committee personnel work conference. Hence the co-establishment of the academy and counties as one of top 10 agriculture-tech modes promoted in the country by the ministry of agriculture.

He firstly put forward the new concept that “the paper should be written on the land while the achievement should remain at farmers’ home” which is written into 2012 and 2013 No 1 central document and Harbin declaration in the third global symposium of heads of academy of agricultural sciences. Published 10 monographs and more than 100 papers.



刘娣
Di Liu

二级研究员，博士生导师，畜牧学科带头人，国家生猪产业技术体系岗位科学家。从事动物遗传繁育和种养结合领域研究，创建了省农科院畜牧研究所，开创性地建设了农业部种养结合重点实验室、省重点学科、省重点实验室、省工程中心、博士后工作站和畜牧科技创新示范基地。以第一名获得国家科技进步二等奖 1 项，省科技进步一等奖 3 项，二等奖 3 项，主持各类项目 40 余项，发表论文 400 余篇，出版著作 16 部，获得专利 21 项，制定标准 8 项。荣获国务院特殊津贴、全国杰出专业技术人才、全国农业科研杰出人才等荣誉称号。培养博士及硕士研究生 100 余名，博士后多名。

Researcher fellow II , Doctoral tutor, leading scientist of animal husbandry, post scientist of the national pig industry technical system. Engaged in the field of animal genetics and breeding, establishing the Institute of Animal Husbandry of the Provincial



Academy of Agricultural Sciences, pioneering the construction of provincial key disciplines, provincial key laboratories, provincial engineering centers, postdoctoral workstations and animal husbandry science and technology innovation demonstration bases. Won 1 of the National Science and Technology Second Prize, 3 of the provincial science and technology progress first prize and 3 second prize, hosted 40 various projects, published more than 400 papers and 16 departments, obtained 21 patents and developed 8 standards. Won the State Council special allowance, the national outstanding professional and technical personnel, outstanding talents in national agricultural research. Trained more than 100 doctoral, postgraduate students, and many postdoctoral.



柯炳生
Bingsheng Ke

中国农业大学教授。曾任农业部农村经济研究中心主任、中国农业大学校长。长期从事农业经济与政策研究，有关成果获国家决策部门重视和采纳，曾在中央政治局集体学习会上做过农业问题的汇报讲解，受邀到国际农经大会做大会特邀报告等。

Professor of China Agricultural University. Former the director of the Rural Economic Research Center of the Ministry of Agriculture and the president of China Agricultural University. Long-term engaged agricultural economy and policy research for long time, the relevant results have been taken seriously and adopted by the National decision-making authorities, He had made a briefing on agricultural issues at the collective study meeting of the Politburo of the Central Committee and was invited to the International Conference on Agricultural Economics to make a special report on the conference.



张福锁
Fusuo Zhang

1960年10月出生，中国农业大学教授、教育部长江学者特聘教授、国家自然科学基金创新群体和973项目首席科学家。长期从事土壤植物营养学研究。先后主持国家基金重大项目、973项目和重大国际合作项目等30余项。目前担任农业部全国测土配方施肥技术专家组组长。2017年当选中国工程院院士。张福锁教授一直从事植物根际生态调控与养分资源综合管理的基础和应用研究工作。在根际养分活化机理以及不同基因型植物适应养分胁迫的生理机制研究方面取得了可喜的进展，他提出根际生态调控理论与技术体系，并通过对间套作、水旱轮作、重迎茬作物生长障碍机制，各种作物生产体系（包括大田作物、蔬菜、果树、烟草等）以及盐生植物根际生态调控机制的系统研究，把理论与生产实际相结合，进一步提出养分资源综合管理的思路，通过全国大协作及国际合作项目的开展，在深化根际理论，提高养分资源利用效率，保护生态环境等方面做出了贡献。

Professor of China agricultural university, distinguished professor of Changjiang scholars from ministry of education, national natural science foundation innovation group and chief scientist of project 973. Long engaging in soil plant nutrition research. Hosting over 30 major national fund projects, 973 projects and major international cooperation projects. At present, the head of the national technical expert group for soil testing and fertilization, the Chinese academy of engineering in 2017. Engaging in the basic and applied research on the ecological regulation of plant rhizosphere and the comprehensive management of nutrient resources. Putting forward the mechanism of rhizospheric



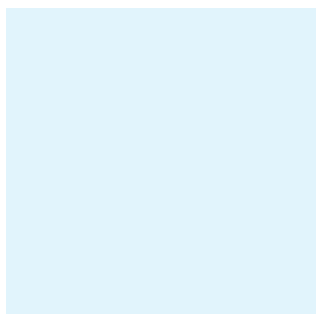
nutrient activation and the physiological mechanism of different genotypes of plants to adapt to nutrient stress have made great progress, proposing the theory and technical system of rhizosphere ecological regulation, and through the intercropping, water and drought rotation, the stubble crop growth obstacle mechanism, various crop production systems(including field crops, vegetables, fruit trees, tobacco, etc.) and a systematic study on the regulation mechanism of rhizosphere ecology of halophytes, combine theory with practice, further putting forward the idea of comprehensive management of nutrient resources, through national and international cooperation projects, making contributions in deepening the rhizosphere theory, improving the utilization efficiency of nutrient resources and protecting the ecological environment.



沈仁芳
Renfang Shen

研究员，博士生导师。中科院“百人计划”、“引进国外杰出人才”计划入选者，曾获国家杰出青年科学基金资助。现任南京土壤研究所所长、土壤与农业可持续发展国家重点实验室主任，致公党江苏省委员会副主委。中国致公党第十五届中央委员会委员。长期从事土壤肥力、植物生理等方面的研究工作。

Researcher, doctoral supervisor. Academy of Chinese academy of sciences' "100 people program", "introduction of foreign outstanding talent" program selected, has been funded by the national outstanding youth science foundation. Currently, he is director of



Nanjing soil research institute, director of national key laboratory of soil and agricultural sustainable development, and deputy chairman of Jiangsu provincial committee of party. Member of the 15th central committee of China Zhigong party. Long-term engaged in soil fertility, plant physiology and other aspects of research.



谢建华
Jianhua Xie

农业农村部耕地质量监测保护中心副主任、推广研究员，先后从事期刊编辑出版、农技推广体系建设与管理、作物栽培技术推广管理、土肥水技术推广管理等技术业务工作，主持组织实施测土配方施肥、耕地质量保护提升等重大技术推广项目 20 项，主持或参与制定全国规划 8 个，主编或合作出版著作 10 多部。

Deputy director of the farmland quality monitoring and protection center of the ministry of agriculture and rural areas, researcher of popularization. He has successively engaged in such technical services as journal editing and publishing, construction and management of agro-technical popularization system, promotion and management of crop cultivation technology, and promotion and management of soil fertilizer and water technology. Lead and organized soil testing formula fertilization and farmland quality protection and promotion 20 major technical promotion projects, lead or participate in the formulation of 8 national plans, chief editor or cooperative publication of more than 10 books.





徐明岗
Minggang Xu

研究员、博士生导师。现任中国热带农业科学院南亚热带作物研究所所长，中国土壤学会副理事长，中国植物营养与肥料学会常务理事、土壤养分循环与环境专业委员会主任，农业部耕地质量建设与管理专家组组长，《中国土壤与肥料》主编，中国农业科学院现代农业土壤学一级岗位杰出人才。长期从事土壤肥力演变与培肥研究，引领我国耕地质量长期试验网，主持公益性行业（农业）专项、国家“973”课题、国家自然科学基金重点国际合作项目、中欧国际合作项目等。近10年来，先后获得国家科技进步二等奖3项，省部级一等奖2项；以第一或通讯作者发表论文192篇，其中SCI论文46篇，出版专著6部，其中《中国土壤肥力演变》获第六届中华优秀出版物（图书）奖。

Researcher, Doctoral supervisor. The director of South Asia tropical crops research institute, Chinese academy of tropical agriculture, vice director of China's soil, member of the standing committee of the Chinese society of plant nutrition and fertilizer, soil nutrient cycle and the environment, director of the professional committee, the ministry of agriculture of cultivated land quality construction and management team, editor of "soil and fertilizer in China", outstanding talents of Chinese academy of agricultural sciences modern agricultural soil science. Long-term engaged in research on soil fertility evolution and fertilization, leading China's long-term research network on farmland quality, hosting public welfare industry (agriculture) special projects, national "973" project, national natural science foundation key international cooperation projects, and international cooperation projects of China and Europe. In the past 10 years, won 3 of



national scientific and technological progress second prizes and 2 first prizes of provincial and ministerial level. Publishing 192 papers as the first author and communication author, including 46 SCI papers and publishing 6 monographs, the "soil fertility evolution in China" won the 6th China excellent publication (book) award.



张甘霖
Ganlin Zhang

博士，中国科学院南京土壤研究所特聘研究员，土壤与农业可持续发展国家重点实验室主任，中国科学院大学岗位教授，FAO 政府间土壤专家小组成员。

Doctor, special research fellow of Nanjing Institute of Soil, Chinese Academy of Sciences, director of the State Key Laboratory for Sustainable Development of Soil and Agriculture, Chair Professor, professor at the University of Chinese Academy of Sciences, member of FAO Intergovernmental Panel of Experts on Soils.



汪景宽
Jingkuan Wang

1963年1月生，教授，博士生导师，现任沈阳农业大学土地与环境学院院长，并被聘任国务院学科评议组成员、农业农村部耕地质量建设与管理专家。主持科研项目20余项，发表学术论文150多篇（其中SCI收录论文35篇），主编学术著作2部，获得省部级科技奖励4项。近几年主要针对东北黑土地地区地力提升以及农业生产实际需求，系统地开展土壤培肥、地力评价、地力提升等方面的理论研究与技术研发，在土壤肥力与耕地保育等方面形成专业优势。

Born January 1963, professor, doctoral tutor, the dean of the School of Land and Environment, Shenyang Agricultural University, and appointed member of the State Council disciplinary review team, agricultural and rural areas of cultivated land quality construction and management experts. Presided over more than 20 scientific research projects, published more than 150 academic papers (including 35 SCI papers), the editor-in-chief of 2 academic works, received provincial and ministerial Science and Technology Awards 4. In recent years, in order to improve the soil fertility and the actual demand of agricultural production in northeast China, the theoretical research and technical research and technical research and development in the fields of fertilization, land-strength evaluation and land-power promotion are systematically developed, and the professional advantages are formed in the fields of soil fertility and cultivated land conservation.



李保国
Baoguo Li

中国农业大学土地科技学院土壤与水科学系的特聘教授、院长，美国土壤科学学会 (SSSA) 会员，美国农学学会 (ASA) 会员。课题主要集中在多尺度的土壤和水过程的识别和定量。在中国率先利用模拟模型研究土壤水的迁移和盐运，对土壤 - 水分 - 作物系统的建模与应用进行了基础研究。撰写并合著了 400 多篇期刊文章、100 份会议论文和 20 篇研究专著和教科书。曾担任农学杂志副主编，并一直活跃在 IUSS (国际土壤科学联合会)，SSSA 和 ASA，以及中国土壤科学学会。在中国政府的多个专门委员会任职。

Professor at Department of Soil and Water Science, College of Land Science and Technology, China Agricultural University. He is a fellow of Soil Science Society of America (SSSA), a fellow of Agronomy Society of America (ASA). Dr. Li's program focuses mainly on identifying and quantifying soil and water processes at and across multiple scales. He pioneers in investigating soil water movement and salt transport by using simulation models in China. He conducts basic study on the modeling and applications of soil- water-crop system. Dr. Li has authored and co-authored over 400 refereed journal articles, 100 conference papers, and 20 research monographs and textbooks. He has served as an associate editor for Agronomy Journal, and has been active in IUSS(The International Union of Soil Sciences), SSSA and ASA, and Soil Science Society of China. He also is Dean of his college and serves on various expertise committees of Chinese government.



魏丹
Dan Wei

博士、二级研究员，2002-2017 年担任黑龙江省农业科学院土壤肥料与环境资源研究所所长，国家“万人计划”和“百千万人才计划”入选专家，东北农业大学博士生导师，国务院特殊津贴获得者，黑龙江省杰出青年基金获得者，从事土壤微生物，黑土退化机理，大豆产业体系方面的研究。发表论文、专著 30 余篇（部）。2014 年评为全国优秀科技工作者。制定地方标准 2 项，制定肥料标准 27 项，获得肥料推广许可证 16 项。

Doctor, researcher fellow II, director of the institute of soil fertilizer and environmental resources, Heilongjiang academy of agricultural sciences from 2002 to 2017, National "ten thousand people plan" and "ten million talents plan" selected experts, Doctoral supervisor of northeast agricultural university, recipient of special subsidies from the state council, winner of Heilongjiang outstanding youth fund, Engaged in soil microorganism, black soil degradation mechanism, soybean industry system research. Published over 30 papers and monographs. In 2014, national excellent scientific and technological workers. Formulated local standard 2, formulated fertilizer standard 27, obtained fertilizer promotion license 16.



张颖
Ying Zhang

中共党员，东北农业大学资源与环境学院院长，教授，博士生导师，荣获国家杰出青年基金，入选第二批国家“万人计划”，国家百千万人才工程 - “有突出贡献中青年专家”，科技部中青年科技创新领军人才。兼任国际期刊 Int J Agric & Biol. Eng 编委，全国科技领军人才联盟常务理事，全国科技领军人才联盟生态与农业专业委员会副主任。主持国家自然科学基金等课题 20 余项，获黑龙江省科学技术奖等科研奖励 12 项。发表论文 254 篇，含 SCI 83 篇，IF=293.992。

Member of the Communist Party of China, Dean of resources and Environment College of Northeast Agricultural University. Professor, doctoral supervisor. Obtainer of the National Outstanding Youth Funds, the second batch of national “Ten Thousand Talent Program”, National Million Talent Project - "Young and Middle-aged Experts with Outstanding Contributions", Youth Science and technology innovation leader in the Ministry of science and technology. She is also the editor of Int J Agric & Biol. Eng, executive director of the national science and technology leading talent League, deputy director of the National Science and Technology Leadership Talent Alliance Ecological and Agricultural Professional Committee. Hosted more than 20 projects such as the National Natural Science Foundation of China and received 12 scientific research awards such as the Heilongjiang Provincial Science and Technology Award. Published 254 papers, including 83 SCI, IF=293.992.



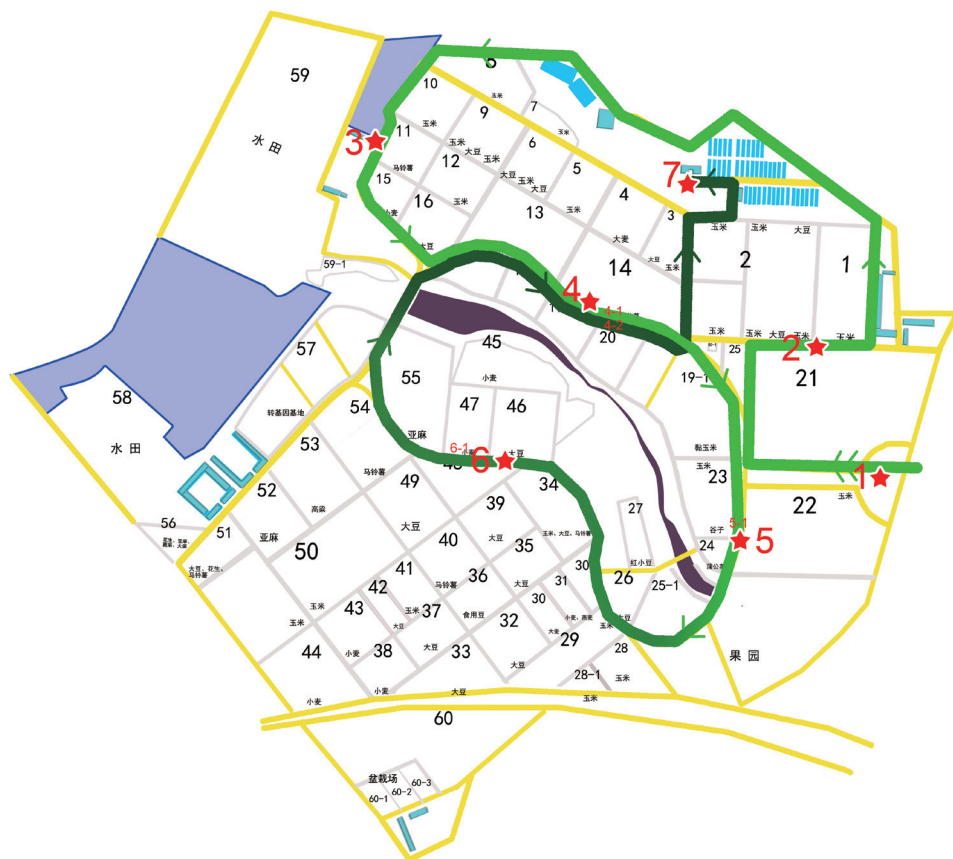
马星竹
Xingzhu Ma

1980 年出生，博士，黑龙江省农业科学院土壤肥料与环境资源研究所，副研究员。毕业于中国科学院沈阳应用生态研究所土壤学专业，主要研究方向为土壤肥料、植物营养、长期土壤肥力质量监测等。现为黑龙江省级领军人才梯队（土壤肥料学）后备带头人，黑龙江省玉米现代农业科技协同创新体系栽培与土肥岗位专家，院级重点学科（肥料学）后备带头人，所植物营养与肥料研究室主任；2012-2013 年赴挪威农业与环境研究所进行访问研究；主持并参与国家、省部级、地（市）级课题 20 余项；在国内外期刊发表学术文章 40 余篇，其中 SCI 收录 10 篇，EI 收录 2 篇，编著 1 部，获得奖励 5 项。

Borned in 1980, Doctor, associate professor, Institute of Soil Fertilizer and Environmental Resources, HAAS. Graduated from Shenyang Institute of Applied Ecology, Chinese Academy of Sciences, majoring in soil science. Main research fields are soil fertilizer, plant nutrition and long-term monitoring of soil fertility quality. She is the reserve leader of Heilongjiang provincial leading talents team (Soil Fertilizer Science), an expert on cultivation and soil fertilizer of Heilongjiang maize modern agricultural science and technology co-innovation system, a reserve leader of key disciplines (fertilizer science) at the college level and the director of the plant nutrition and Fertilizer department. 2012-2013 years visit to Norwegian Institute of agriculture and environment. She has conducted and participated in more than 20 national, provincial, and municipal research projects, and published more than 40 academic papers in domestic and foreign journals, including 10 SCI and 2 EI, wrote 1 book, and won 5 awards.

黑龙江省农业科学院现代农业示范区 参观路线图

Road Map of Modern Agricultural Demonstration Area of
Heilongjiang Academy of Agricultural Sciences(HAAS)



- | | |
|------------------------|---|
| 1 黑龙江省现代农业示范区 | 1 Heilongjiang modern agriculture demonstration area |
| 2 黑土肥力长期定位监测区 | 2 Long-term monitoring area for black soil fertility |
| 3 耕作栽培研究所水田展示区 | 3 Paddy field exhibition area of institute of tillage and cultivation |
| 4 高粱展示区 | 4 Sorghum exhibition area |
| 4-1 黑龙江省农业科学院草业研究所展示区 | 4-1 Exhibition area of institute of grassland, HAAS |
| 4-2 黑龙江省农业科学院玉米研究所展示区 | 4-2 Exhibition area of institute of maize, HAAS |
| 5 谷子展示区 | 5 Millet exhibition area |
| 5-1 栽培所蒲公英基地 | 5-1 Dandelion base of institute of tillage and cultivation |
| 6 黑土展示区 | 6 Black soil exhibition area |
| 6-1 黑龙江省农业科学院农业气象综合观测站 | 6-1 Agrometeorological observation station of HAAS |
| 7 休息区 | 7 Rest area |



保护黑土 投资未来

PROTECT BLACK SOILS INVEST IN THE FUTURE

