



中國農業大學
China Agricultural University



THE UNIVERSITY OF
SYDNEY

CONFERENCE BROCHURE 会议手册



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会议信息 General Conference Information

会议名称 Title

中国农业大学 - 悉尼大学云端学术交流会议暨畜牧领域人才培养研讨会
China Agricultural University-University of Sydney Online Conference
(Agricultural & Animal Science) & Joint Doctoral Program Workshop

会议日期 Date

2020年8月4-5日
August 4-5, 2020

会议地点 Location

<https://play.yunxi.tv/livestream/8386e83329d546fda6a8172b7f6484c2>



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会议组织

主办单位

中国农业大学
悉尼大学

承办单位

中国农业大学动物科学技术学院

协办单位

中国农业大学草业科学与技术学院
北京高校青年教师创新教研工作室

会议委员会

咨询委员会

主 任: 孙其信 (Sun Qixin)

Chairman

委 员: 龚元石 (Gong Yuanshi)

Member

组织委员会

主 席: 闫于明 (Guo Yuming)

Chairman

执行主席: 张英俊 (Zhang Yingjun)

Executive Chairman

委 员: 班丽萍 (Ban Liping)

Member 李孟华 (Li Menghua)

刘国世 (Liu Guoshi)

马秋刚 (Ma Qiugang)

孙东晓 (Sun Dongxiao)

吴中红 (Wu Zhonghong)

Alex McBratney

Cameron Clark

Lachlan Ingram

Richard Trethowan

Russell Bush

办 公 室

主 任: 毕蕾蕾 (Bi Leilei)

Director

委 员: 马佳莹 (Ma Jiaying)

Member 肖鉴鑫 (Xiao Jianxin)

Organization

Host

China Agricultural University
The University of Sydney

Organizer

College of Animal Science and Technology, CAU

Supporters

College of Grassland Science and Technology, CAU
Beijing Young Scientist Innovation Center

Conference Committee

Advisory Committee

Michael Spence

冯伟哲 (Feng Weizhe)

Brent Kaiser

Ruth Zadoks

Organizing Committee

Brent Kaiser

曹志军 (Cao zhijun)

Ruth Zadoks

侯卓成 (Hou Zhuocheng)

荆晶莹 (Jing Jingying)

李胜利 (Li Shengli)

梁俊毅 (Liang Junyi)

刘剑锋 (Liu Jianfeng)

刘 楠 (Liu Nan)

譙仕彦 (Qiao Shiyan)

戎郁萍 (Rong Yuping)

王军军 (Wang Junjun)

王 堃 (Wang Kun)

杨 宁 (Yang Ning)

张万军 (Zhang Wanjun)

Andrew Merchant

Brett Whelan

Feike Dijkstra

Joy Becker

Luciano Gonzales

Peng Zhang

Robert Park

Robyn McConchie

Sergio Garcia

Sonia Liu

Committee Office

Mary Wang

杨 萌 (Yang Meng)

王爽怡 (Wang Shuangyi)

张地方 (Zhang Difang)

赵小慧 (Zhao Xiaohui)

会议日程

8月4日 星期二

学术交流会（直播）

主持人： 闵于明教授（中国农业大学动物科学技术学院院长）

08:30-09:00 (北京)	开幕式	孙其信	中国农业大学校长
10:30-11:00 (悉尼)	校长致辞	Michael Spence	悉尼大学校长
09:05-09:35 (北京)	Genomic analysis and molecular	杨宁	中国农业大学动物科学技术学院教授
11:05-11:35 (悉尼)	breeding of chickens		世界家禽学会主席 国家蛋鸡生产技术体系首席科学家
09:40-10:10 (北京)	Sustainable, nutritious and ethical animal	Luciano Gonzalez	悉尼大学生命与环境科学学院教授
11:40-12:10 (悉尼)	products for the world markets		可持续畜牧业生产领域 Nancy Roma Paech 主席
10:15-10:45 (北京)	China dairy development and research	李胜利	中国农业大学动物科学技术学院教授
12:15-12:45 (悉尼)	progress		国家奶牛产业技术体系首席科学家
10:50-11:20 (北京)	Whither digital agriculture	Alex McBratney	悉尼大学农业与环境学院教授
12:50-13:30 (悉尼)			悉尼农业研究所所长
11:25-11:55 (北京)	Outline of grassland industry and grazing	张英俊	中国农业大学草业科学与技术学院院长
13:25-13:55 (悉尼)	system study		国家牧草产业技术体系首席科学家
12:00-12:30 (北京)	答疑环节		
14:00-14:30 (悉尼)			
12:30-13:30 (北京)	午休		
14:30-15:30 (悉尼)			

主持人： Brent Kaiser 教授（悉尼大学生命与环境科学学院）

13:30-14:00 (北京)	The advancement of dairy production systems	Sergio Garcia	悉尼大学奶业科学系教授，奶业科学团队负责人
15:30-16:00 (悉尼)	through science and research		奶业研究基金会主任
14:05-14:35 (北京)	Research progress on nutrition strategies of	谯仕彦	中国农业大学动物科学技术学院教授
16:05-16:35 (悉尼)	efficient and sustainable pig production in CAU		国家饲料工程技术研究中心主任
14:40-15:10 (北京)	The role of disease control in the sustainability	Ruth Zadoks	悉尼大学兽医学院动物健康与生产系教授
16:40-17:10 (悉尼)	of animal production and food security		
15:15-15:45 (北京)	Climatic adaptation and wild genomic	李孟华	中国农业大学动物科学技术学院教授
17:15-17:45 (悉尼)	introgressions in domestic sheep		国际动物遗传学会羊专业委员会主席
15:50-16:20 (北京)	100 years of cereal rust research at the	Robert Park	悉尼大学生命与环境科学学院作物育种研究所教授
17:50-18:20 (悉尼)	University of Sydney		可持续发展农业 Judith & David Coffey 主席
16:25-16:55 (北京)	答疑环节		
18:25-18:55 (悉尼)			
16:55-17:00 (北京)	闭幕式		
18:55-19:00 (悉尼)			

8月5日 星期三

内部研讨会

主持人： 曹志军教授（中国农业大学动物科学技术学院党委副书记） & Brent Kaiser 教授（悉尼大学生命与环境科学学院）

08:30-12:30 (北京)	中国农业大学 - 悉尼大学畜牧领域人才培养研讨会（内部）
10:30-14:30 (悉尼)	

Agenda

Tuesday, August 4, 2020

Online Conference

Host: Prof. Guo Yuming (CAU)

08:30-09:00 (Beijing)	Opening Ceremony (President Speech)	Sun Qixin	CAU
10:30-11:00 (Sydney)		Michael Spence	USYD
09:05-09:35 (Beijing)	Genomic analysis and molecular breeding of chickens	Yang Ning	CAU
11:05-11:35 (Sydney)			
09:40-10:10 (Beijing)	Sustainable, nutritious and ethical animal products for the	Luciano Gonzalez	USYD
11:40-12:10 (Sydney)	world markets		
10:15-10:45 (Beijing)	China dairy development and research progress	Li Shengli	CAU
12:15-12:45 (Sydney)			
10:50-11:20 (Beijing)	Whither digital agriculture	Alex McBratney	USYD
12:50-13:30 (Sydney)			
11:25-11:55 (Beijing)	Outline of grassland industry and grazing system study	Zhang Yingjun	CAU
13:25-13:55 (Sydney)			
12:00-12:30 (Beijing)	Q & A		
14:00-14:30 (Sydney)			
12:30-13:30 (Beijing)	Break		
14:30-15:30 (Sydney)			

Host: Prof. Brent Kaiser (USYD)

13:30-14:00 (Beijing)	The advancement of dairy production systems through	Sergio Garcia	USYD
15:30-16:00 (Sydney)	science and research		
14:05-14:35 (Beijing)	Research progress on nutrition strategies of efficient and	Qiao Shiyan	CAU
16:05-16:35 (Sydney)	sustainable pig production in CAU		
14:40-15:10 (Beijing)	The role of disease control in the sustainability of animal	Ruth Zadoks	USYD
16:40-17:10 (Sydney)	production and food security		
15:15-15:45 (Beijing)	Climatic adaptation and wild genomic introgressions in	Li Menghua	CAU
17:15-17:45 (Sydney)	domestic sheep		
15:50-16:20 (Beijing)	100 years of cereal rust research at the University of Sydney	Robert Park	USYD
17:50-18:20 (Sydney)			
16:25-16:55 (Beijing)	Q & A		
18:25-18:55 (Sydney)			
16:55-17:00 (Beijing)	Closing Ceremony		
18:55-19:00 (Sydney)			

Wednesday, August 5, 2020

Internal Workshop

Host: Prof. Cao Zhijun (CAU) & Prof. Brent Kaiser (USYD)

08:30-12:30 (Beijing)	Joint Doctoral Program Workshop (Internal)
10:30-14:30 (Sydney)	

嘉宾介绍 Speaker



孙其信

中国农业大学校长、教授
第十三届全国人民代表大会常务委员会委员
中国农学会副会长
教育部植物生产类专业教学指导委员会主任委员
教育部科学技术委员会农林学部主任

长期从事作物遗传育种的教学、科研工作，特别是小麦育种领域。曾先后主持或参加国家科技攻关、973、863、国家自然科学基金等重点科研项目，国家杰出青年科学基金获得者。曾获得国家科技进步一等奖、二等奖和教育部技术发明一等奖等。

Sun Qixin: Prof. SUN Qixin is the President of China Agricultural University (CAU), and the member of the Standing Committee of the 13th National People's Congress.

Besides his duty as President at CAU, he has actively served as the Chief Scientist of the Project named Basic Molecular Biology of Major Crop Heterosis and Its Utilization, which is a part in the National Plan of Key Fundamental Research (as known as 973 Plan). He has also engaged as the Vice President of China Association of Agricultural Science Societies; Director of Steering Committee for Plant Production Teaching of Ministry of Education (MOE); Head of Department of Agriculture and Forestry, Science and Technology Commission of MOE; and Member of Science and Technology Commission at Ministry of Agriculture and Rural Affairs.

As a scientist in wheat genetics and genomics, his early research project has been sponsored by the National Outstanding Young Investigator Award, National Natural Science Foundation of China. And his expertise has been highly recognized by the Chinese Government with national awards, to name a few, the First and Second-class National Science and Technology Progress Awards, the First-class Science and Technology Progress Award of Chinese Ministry of Education, the Second-class Science and Technology Progress Award of Ministry of Agriculture and Rural Affairs, and etc.



Michael Spence

悉尼大学校长，牛津大学哲学博士
曾执教于悉尼大学法学院
曾就职于澳大利亚版权协会
曾主管牛津大学社会科学部和法学院

Spence 博士于 2008 年出任悉尼大学第 25 任校长，为悉尼大学制定了全新的发展战略，重点聚焦于本科教育变革、促进跨学科研究以及强化围绕核心价值的高校文化，有效促进了悉尼大学与行业、政府和相关组织的学术合作，成为在知识产权理论方面得到国际认可的领袖人物。2017 年，Spence 博士在澳大利亚国庆日荣获澳大利亚 AC 勋章，以表彰其在高等教育领域及其促进教育平等方面做出的贡献。

Michael Spence:

Dr Michael Spence has led the University of Sydney as Vice-Chancellor and Principal since 2008 and is the University's 25th Vice-Chancellor. An alumnus of the University of Sydney, Dr Spence has a BA with first-class honours in English, Italian and law. His other languages include Chinese and Korean. Dr Spence holds a Doctor of Philosophy from the University of Oxford and headed Oxford's law faculty and its social sciences division.

During his time as Vice-Chancellor, the University of Sydney has forged a distinctive new strategy focused on the transformation of undergraduate education, promoting interdisciplinary research, and strengthening the culture around our core values. He was instrumental in leading the University's unprecedented \$1 billion INSPIRED philanthropic campaign, and promoting greater academic partnerships with industry, government and community organisations.

In 2017, he was awarded a Companion of the Order of Australia in the Australia Day Honours for service to leadership of the tertiary education sector, to the advancement of equitable access to educational opportunities, to developing programs focused on multidisciplinary research, and to the Anglican Church of Australia.



于明:

中国农业大学动物科学技术学院教授、院长
长江学者特聘教授、动物营养国家重点实验室副主任
国家肉鸡产业技术体系肉鸡营养与饲料岗位专家

主要研究方向:

家禽营养代谢与饲料利用；营养与免疫、胃肠道健康以及家禽产品质量

Guo Yuming: Professor and Dean of College of Animal Science and Technology, China Agricultural University. He is a distinguished professor of Cheung Kong Scholars Program, Deputy Director of the State Key Laboratory of Animal Nutrition and broiler nutrition and feed post expert of National Broiler Industry Technology System. Prof. Guo particularly engaged in the research of nutrient metabolism and feedstuff utilization in poultry, nutrition and immunity, gastro-intestinal tract health and poultry product quality.



杨宁:

中国农业大学动物科学技术学院教授
畜禽育种国家工程实验室主任
世界家禽学会主席
国家蛋鸡生产技术体系首席科学家

主要研究方向:

家禽基因组学和遗传学

Yang Ning: Professor of College of Animal Science and Technology, China Agricultural University. He is the Chief Scientist of the National System for Layer Production Technology and Director of the National Engineering Laboratory for Animal Breeding. He is also the President of World's Poultry Science Association. Prof. Yang dedicates to the research of poultry genomics and genetics.



Luciano Gonzalez:

悉尼大学生命与环境科学学院教授

可持续畜牧业生产领域“Nancy Roma Paech”主席

“未来景观项目”畜牧计划负责人

主要研究方向:

畜牧业可持续生产及动物福利，通过创新型新技术提高牧场管理水平，了解畜牧与环境的相互作用，并借助该相互作用来提高生产效率、环境可持续性、动物健康和福利。

Luciano Gonzalez: Professor of School of Life and Environment Science, The University Of Sydney. He is Nancy Roma Paech Chair in Sustainable Livestock Production and the leader of The Livestock in Future Landscapes Program supported by the McCaughey Institute. Prof González is interested in improving the sustainability, profitability and productivity of livestock enterprises along with animal welfare and rural life.



李胜利:

中国农业大学动物科学技术学院教授

国家奶牛产业技术体系首席科学家

中国畜牧兽医学会养牛学会理事长、中国奶业协会副主席

动物营养国家重点实验室副主任

中荷奶业发展中心主任、国际奶业战略与技术研究中心主任

主要研究方向:

奶牛饲料营养价值评定、中国奶牛饲养标准及奶牛场标准化饲养管理技术

Li Shengli: Professor of College of Animal Science and Technology, China Agricultural University. He is the Chief Scientist of the National Modern Dairy Industry Technology System, Chairman of the cattle breeding branch of the Chinese Society of Animal Husbandry and Veterinary Medicine, the Deputy Director of the State Key Laboratory of Animal Nutrition, the Vice Chairman of the China Dairy Association, the Director of the Sino-Dutch Dairy Development Center, the international dairy industry Director of Strategy and Technology Research Center. Prof. Li particularly engaged in the research of nutritional value evaluation of dairy cow feed, research on China's dairy feeding standards, nutritional requirements and regulation of dairy cows during perinatal period, standardized feeding management of dairy farms, etc.



Alex McBratney:

悉尼大学农业与环境学院教授

悉尼农业研究所所长

主要研究方向:

主要从事土壤科学及精准农业基础理论、方法和应用方面的工作以提高土壤系统的可持续利用

Alex McBratney: Professor of Digital Agriculture and Soil Science, The University of Sydney. He is the Director of Sydney Institute of Agriculture. Prof. McBratney's research focuses on soil science, pedometrics and precision agriculture. He leads one of the strongest university-based research groups on soil resource assessment internationally, working on the basic theoretical, methodological and applied aspects.



张英俊:

中国农业大学草业科学与技术学院教授、院长

国家牧草产业技术体系首席科学家

中国草学会秘书长

主要研究方向:

草地管理与牧草生产与利用

Zhang Yingjun: Professor and Dean of College of Grassland Science and Technology, China Agricultural University. He is the Secretary General of Chinese Grassland Society. Prof. Zhang was awarded the Cheung Kong Scholars by the Ministry of Education in 2015 for his outstanding achievement in grassland and forage studies. As the Chief Scientist for China's Forage and Grassland Research System, he is leading national forage production and grassland improvement. Prof. Zhang conducts the research and teaching in grassland management and ecology, forage production and utilization.



Sergio Garcia:

悉尼大学奶业科学系教授，奶业科学团队负责人
奶业研究基金会主任

主要研究方向:

在放牧条件下，饲料利用管理、牧场和农作物的资源整合以及奶业自动化

Sergio Garcia: Professor of School of Life and Environment Science, The University of Sydney. He is the Director of Dairy Research Foundation and dairy science group leader. Prof. Garcia's research vision is the development of sustainably intensified, automated, pasture based dairy systems and the main topic of his presentation will be the advancement of dairy production systems through science and research.



谯仕彦:

中国农业大学动物科学技术学院教授
国家饲料工程技术研究中心主任
北京市生物饲料添加剂重点实验室主任
饲料抗菌肽北京市工程实验室主任

主要研究方向:

饲料营养价值评定、猪的营养需求、低蛋白日粮以及饲料抗生素替代技术和产品的评估

Qiao Shiyan: Professor of College of Animal Science and Technology, China Agricultural University. He is the Director of National Feed Engineering Technology Research Center, Beijing Key Laboratory of Biological Feed Additives and Beijing Engineering Laboratory of Feeding Antibacterial Peptides. Prof. Qiao conducts the research on the evaluation of feed nutritional value, nutritional requirements of swine, low protein diets, and feed antibiotic substitution technology and products.

**Ruth Zadoks:**

悉尼大学兽医学院动物健康与生产系教授

主要研究方向:

动物传染性疾病的分子流行病学

Ruth Zadoks: Professor of Production Animal Health at the Sydney School of Veterinary Science. Prof. Zadoks's research interests include antimicrobial resistance, food safety, Klebsiella, and group B Streptococcus across humans, cattle and aquaculture species in Europe, South America, sub-Saharan Africa and Southeast Asia as well as viral and parasitic disease of cattle and sheep, with a specific interest in molecular epidemiology and development of disease management strategies and tools.

**李孟华:**

中国农业大学动物科学技术学院教授

国家杰出青年科学基金获得者

国际动物遗传学会羊专业委员会主席

主要研究方向:

绵羊的遗传学和基因组学，探究绵羊及其野生近源种和进化基因组学，如气候适应和种间基因渗入等

Li Menghua: Professor of College of Animal Science and Technology, China Agricultural University.

He gained the China National Funds for Distinguished Young Scientists and he is the committee chair of Small Ruminant Genetics and Genomics, the International Society for Animal Genetics.

He is the editorial member of several international journals such as Animal Genetics, Frontiers in Genetics, Journal of Animal Breeding and Genetics. Prof. Li's research focuses on sheep genetic and genomics including sheep genetic resources, genetic basis of phenotypic traits and ecological and evolutionary genomics of sheep and their wild relatives.



Robert Park:

悉尼大学生命与环境科学学院作物育种研究所教授

可持续发展农业 Judith & David Coffey 主席

2009 年曾获黄河友谊奖和中国友谊奖

主要研究方向:

植物抗锈病遗传学，快速世代育种以将新的抗锈病基因源结合到谷物中，以及锈病病原体基因组学

Robert Park: Professor of School of Life and Environmental Sciences and Plant Breeding Institute, The University of Sydney. He holds the Judith & David Coffey Chair in Sustainable Agriculture and is Director of Rust Research. Prof. Park's research focuses on genetics of resistance to rust in plants, rapid generation pre-breeding to incorporate new sources of rust resistance into cereals, and rust pathogen genomics. Park received the Yellow River Friendship Award and the Friendship Award of China in 2009.



Brett Whelan:

悉尼大学生命与环境科学学院副教授

主要研究方向:

精准农业及其在作物管理系统中的应用，通过研究和建立量化空间可控变异性的技术和程序，在商业农场设计和实施可变利率处理方法来实现

Brett Whelan: Associate Professor in Precision Agriculture of School of Life and Environment Sciences, The University of Sydney. Dr. Whelan's research work has been aimed at developing the use of Precision Agriculture (PA) in a range of crop management systems. This is being achieved through the research and establishment of techniques and procedures for quantifying spatially-manageable variability and then devising and implementing variable-rate treatment on commercial farms. Brett's research and experience in PA has also been used to develop training materials and provide information and instruction for the wider national and international agricultural communities.



Richard Trethowan:

悉尼大学生命与环境科学学院教授

Narrabri 植物育种研究所 IA Watson 研究中心主任

主要研究方向:

开发更能有效利用水资源并更好地适应日益恶劣的农业生产条件的农作物品种, 通过将世界上最重要的粮食作物的原始形态的抗逆性遗传变异引入到商业品种中, 这方面的研究会让整个农业产业受益, 诸如提高生产力, 增加收入和改善农业系统的可持续性

Richard Trethowan: Professor of School of Life and Environmental Sciences, The University of Sydney. He is the Director of IA Watson Research Centre, Narrabri Plant Breeding Institute. Prof. Trethowan's research focus on developing crop cultivars that use water more efficiently and better adapt to increasingly hostile production conditions. Genetic variation for stress tolerance can be introduced into commercial cultivars from ancestral forms of some of the world's most important food crops. This work benefits the agriculture industry in many ways, such as increasing productivity, raising income, and improving the sustainability of farming systems.



Brent Kaiser:

悉尼大学生命与环境科学学院教授

农业研究委员会豆科植物可持续发展项目主任

植物育种及生产课题负责人

主要研究方向:

豆科植物生物学及植物氮转运的分子调控

Brent Kaiser: Professor of Legume Biology, School of Life and Environmental Sciences, The University of Sydney. He is the Director of ARC ITRH – Legumes for Sustainable Agriculture and Theme Leader of Plant Breeding and Production. Brent worked in a number of research groups (UBC Canada, Nice France and Canberra Australia) in areas focused on the molecular regulation of nitrogen transport in plants.



Peng Zhang:

悉尼大学生命与环境科学学院植物育种研究所高级研究员

主要研究方向:

谷物的分子细胞遗传学、种质和遗传种群的发展，以及锈病和其他抗性基因从野生品种向谷物的转移。其中一项主要研究涉及使用染色体工程和分子细胞遗传学技术将锈病和其他抗性基因从野生品种转移至谷物

Peng Zhang: Senior research fellow of Plant Breeding Institute, School of Life and Environment Science, The University of Sydney. Dr. Zhang's research focuses on molecular cytogenetics of cereal, germplasm and genetic stocks development, and rust and other resistance genes transfer from wild species to cereal. One of her major research involves transfers of rust and other resistance genes from wild species to cereal using chromosome engineering and molecular cytogenetic techniques.



Robyn McConchie:

悉尼大学生命与环境科学学院教授

悉尼农业学院优质食品研究课题负责人

澳大利亚和新西兰新鲜农产品安全中心主任

农业研究中心新鲜农产品行业食品安全培训中心主任

主要研究方向:

牧场来源食品安全、质量保证、农产品增值及牧场主与市场间的供应链关系

Robyn McConchie: Professor of School of Life and Environmental Sciences, The University of Sydney and Theme Leader of Quality Food, Sydney Institute of Agriculture. She is the Director of Fresh Produce Safety Centre Australian and New Zealand and ARC Training Centre for Food Safety in the Fresh Produce Industry. Prof. McConchie's research focuses on a range of post farm-gate activities from postharvest, food safety, quality assurance, value adding and linking farmers to markets through supply chains. She has been leader of 16 international research and capacity building projects around the world.



Lachlan Ingram:

悉尼大学生命与环境科学学院高级讲师

主要研究方向:

可持续草地管理及草地生产对土壤碳和肥力的影响，草地及相关家畜生产等领域，包括牛羊放牧系统、放牧草地土壤、植被、水资源的改良以及动物和微量气体的生产及排放

Lachlan Ingram: Senior Lecture in Sustainable Grassland Management, School of Life and Environmental Sciences, The University of Sydney. Dr. Ingram's research focuses on impact of management and grassland production on soil carbon and fertility. He has extensive interests in range of issues around grassland and associated animal production and has undertaken research around all aspects of grasslands including soils, plants, animals, water and trace gas production in both native and improved pasture grassland that are grazed by cattle and sheep system.



Feike Dijkstra:

悉尼大学生命与环境科学学院副教授

主要研究方向:

生物地球化学，重点研究植物 - 土壤相互作用对土壤碳和养分循环的影响，与环境变化和管理（包括气候变化影响）相关的土壤有机质分解、氮矿化和植物养分吸收

Feike Dijkstra: Associate Professor of Biogeochemistry, School of Life and Environmental Sciences, The University of Sydney. Dr. Dijkstra's research focuses on plant-soil interactions affecting soil carbon and nutrient cycling. He is the leader of the biogeochemistry group, and they are conducting field and growth chamber experiments in grassland and agro-ecosystems. Besides, the main research of his team is soil organic matter decomposition, nitrogen mineralization, and plant nutrient uptake, in relation to environmental change and management, including impacts of climate change.



Andrew Merchant:

悉尼大学生命与环境科学学院副教授

主要研究方向:

农业生态系统，致力于土壤 - 植物 - 大气连续体之间资源交换的功能表征研究。目前正在进行放牧草地营养质量发展以及受大气耦合与竞争相互作用控制的草地系统的恢复能力

Andrew Merchant: Associate Professor in Agroecosystems, School of Life and Environmental Sciences, The University of Sydney. Dr. Merchant's research is devoted to the functional characterization of resource exchange between the soil-plant-atmosphere continuum. On the topic of animal and grassland management, he is investigating both the development of nutritional quality in pastures as well as the resilience of grassland systems governed by interactions between atmospheric coupling and competition.



Cameron Clark:

悉尼大学生命与环境科学学院副教授

反刍动物健康方向首席研究员

主要研究方向:

数据化提升家畜健康，将现有的新型传感器应用于家畜生产当中产生牧场可用数据以提升牧场效益和动物健康，包括实时监测动物行为数据尽早发现健康问题并提高动物的气候适应能力

Cameron Clark: Associate Professor in Ruminant Health and Principle Research Fellow, School of Life and Environmental Sciences, The University of Sydney. Dr. Clark's research is devoted to turning existing, and new sensor derived, farm data into information that farmers can use to improve profit, lifestyle and animal health; the use of sensor data and livestock behavior to detect reduced health earlier than conventional methods and to improve livestock climate resilience.



Russell Bush:

悉尼大学兽医学院畜牧生产系副教授

主要研究方向:

畜牧生产系统，理论指导反刍动物饲养管理技能，包括肉牛、奶牛和绵羊，能够与行业及生产者保持紧密联系，提高畜牧生产者的养殖效益

Russell Bush: Associate Professor of Livestock Production at the Sydney School of Veterinary Science, The University of Sydney. Prof. Bush's research focuses on developing skills and knowledge directly applicable to industry, including beef, wool and milk production, both domestically and internationally. In addition, owning and managing a cattle and sheep operation maintains his connection with primary production and the importance of interacting with industry stakeholders.



Sonia Liu:

悉尼大学生命与环境科学学院家禽营养方向高级讲师

主要研究方向:

家禽营养策略的制定以应对全球在食品安全、可持续发展和气候变化等方面的挑战，家禽的同步消化、低蛋白日粮以及气候对饲用谷物质量和饲用酶制剂的影响

Sonia Liu: Senior Lecturer in Poultry Nutrition, School of Life and Environmental Sciences, The University of Sydney. Dr. Liu's research focuses on developing nutritional strategy for poultry to address global challenges in food security, sustainability and climate change. The topics she is exploring include digestive synchrony, reduced protein diets, impact of climate on feed grain quality and feed enzyme supplementation.

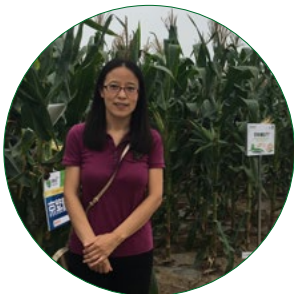
**Joy Becker:**

悉尼大学生命与环境科学学院副教授

主要研究方向:

水产动物健康与生产，侧重于了解和控制影响野生鱼类和养殖鱼类的生产限制性疾病方向；指导并开发了原型疫苗、鱼类寄生虫的新型药物疗法以及创新型诊断检测方法；目前专注于优化水产养殖中鱼类健康方向以提高鱼类生长速率和渔场生产力

Joy Becker: Associate Professor in Aquatic Animal Health and Production, School of Life and Environmental Sciences, The University of Sydney. Dr. Becker's research focuses on understanding and controlling production-limiting diseases affecting both wild fish and farmed fish populations. Her research program has a strong industry focus with key career achievements leading to a prototype vaccine, novel drug treatments for fish parasites, and novel diagnostic test development. Her current research program focused on optimizing fish health in aquaculture for increased growth and farm productivity.

**班丽萍:**

中国农业大学草业科学与技术学院教授

主要研究方向:

植物虫害的生物防治技术研究与应用，包括针对农业害虫，筛选生物防治制剂，探究安全有效的控制害虫危害的技术；以及基于分子生物学对害虫发生机理的研究，包括针对害虫本身的习性，在分子水平上研究害虫的致害原因及其分子机理

Ban Liping: Professor of College of Grassland Science and Technology, China Agricultural University. Prof. Ban's research focuses on pest management, and biocontrol of pasture pests. Her research has covered fundamental laboratory studies to understand insect behavior and biology, field-based population studies through to the integration of pest management strategies and biological control of pests.



王堃:

中国农业大学草业科学与技术学院教授

主要研究方向:

草地资源与生态保护，重点开展农牧交错带和恢复生态研究，构建了我国退化草地恢复重建的理论技术框架，提出了“以提高土壤肥力为核心的退化草地植被修复理论技术体系”

Wang Kun: Professor of College of Grassland Science and Technology, China Agricultural University. Prof. Wang's research focuses on grassland resources and ecological protection and he is the academic leader in this area in China. He particularly conducts the research in the development of the agricultural and pastoral transition zone and the restoration of ecology. He has constructed a theoretical and technical framework for the restoration and reconstruction of degraded grasslands in China.



荆晶莹:

中国农业大学草业科学与技术学院副教授

主要研究方向:

草地生态与管理，围绕植物地上-地下互作的关键过程和机制开展研究，以草地次级演替植物群落和农田主要作物为研究对象

Jing Jingying: Associate professor of College of Grassland Science and Technology, China Agricultural University. Dr. Jing has a broad interest in understanding how plant (plant community) interacts with its environment. This can refer to the abiotic environment such as soil nutrient availability or to the biotic environment including interactions with the same or other plant species, or interactions with soil biota.



吴中红:

中国农业大学动物科技学院教授
智能养殖与环境科学系系主任

主要研究方向:

动物环境工程和环境生理学, 尤其是猪和兔。针对环境因素对动物代谢和繁殖的影响开展相关研究, 以进一步优化环境参数并开发畜舍的环境控制技术

Wu Zhonghong: Professor and chair of Department of Animal Intelligent Production and Environment Science, College of Animal Science and Technology, China Agricultural University. She engaged in animal environmental engineering and environmental physiology related teaching and research works, especially with pigs and rabbits. She has conducted researches of the impact of environment factors on animal metabolism and reproduction to further optimize the environmental parameters and develop environmental control techniques of livestock house.



曹志军:

中国农业大学动物科技学院教授、党委副书记
中国畜牧兽医学会养牛学分会副秘书长
中国后备奶牛培育协作创新平台秘书长
牛精英联盟秘书长

主要研究方向:

奶牛营养与牛奶质量, 后备牛培育

Cao Zhijun: Professor and Associate Dean of College of Animal Science and Technology, China Agricultural University. He serves as the Committee Member of Nutrient Requirements of Dairy Cattle in China, and Deputy General Secretary of China Cattle Science Association, Chinese Association of Animal Science and Veterinary Medicine. He is the General Secretary of Calf and Heifer Association of China and Elite Cattleman Program Alliance. Prof. Cao focuses on the nutrient requirements of dairy calves and heifers, and energy metabolism in transition dairy cows.



王军军:

中国农业大学动物科技学院教授、副院长

主要研究方向:

猪生长变异的生理基础与营养优化、猪的营养监测与精准饲喂, 在 IUGR 猪的生理发育缺陷、营养代谢特征解析、基于血浆代谢组的猪营养状况评价与优化、基于饲料原料消化和发酵动力学的新型平衡配方体系构建

Wang Junjun: Professor and Associate Dean of College of Animal Science and Technology, China Agricultural University. Prof. Wang's research focuses on physiological defects and nutritional optimization of intrauterine growth restricted (IUGR) pigs, nutritional values evaluation of feed ingredients and precision feeding for pigs.



马秋刚:

中国农业大学动物科技学院教授、动物营养与饲料科学系主任

中国畜牧兽医学会动物营养分会和驴业分会理事

北京畜牧兽医学会常务理事和兼副秘书长

主要研究方向:

单胃动物营养需要, 饲料安全, 霉菌毒素生物降解, 以及绿色无公害饲料添加剂的开发

Ma Qiugang: Professor of College of Animal Science and Technology and Chair of Animal Nutrition and Feed Science Department, China Agricultural University. He is the Director of Society of Animal Nutrition, Chinese Association of Animal and Veterinary Medicine. He is also the Director of Donkey industry branch, China Animal Agriculture Association. He is Standing Director and Deputy Secretary of Beijing Association of Animal and Veterinary Medicines. Prof. Ma's research focuses on poultry nutrition, equine nutrition and feed safety especially mycotoxin degradation.

**刘剑锋:**

中国农业大学动物科技学院教授、副院长

主要研究方向:

数量遗传学、生物信息学理论和计算技术研究；基于多组学信息进行畜禽复杂性状遗传机理解析；以猪和奶牛为研究对象进行常规育种和组学信息相结合的优化策略研究（基因组选择技术等）

Liu Jianfeng: Professor and Associate Dean of College of Animal Science and Technology, China Agricultural University. Prof. Liu's primary research focuses on quantitative genetics and statistical genomics on pigs and cattle including 1) statistical theory and methodology development for complex traits and genomic data analysis, gene identification via linkage analyses and GWAS, and genomic breeding value prediction; 2) develop computer program packages for GWAS and GS; 3) develop methods to incorporate marker/genes information into genome-wide marker/gene assisted selection for the genetic improvement of economically relevant traits in livestock; 4) structural variation identification via resequencing data in pigs.

**孙东晓:**

中国农业大学动物科技学院教授

动物遗传育种与繁殖系主任

主要研究方向:

动物分子数量遗传学与奶牛育种，围绕奶牛产奶和功能性状，系统开展全基因组关联分析、Post-GWAS、基因组和转录组重测序、系统生物学、RNA 干扰、奶牛基因组选择技术平台构建及应用等研究

Sun Dongxiao: Professor of College of Animal Science and Technology and Chair of Animal Genetic and Reproduction Science Department, China Agricultural University. Prof. Sun's research focuses on dairy cattle genetics and breeding including the identification of genes affecting milk production traits, marker-assisted selection and genomic selection in dairy cattle.



侯卓成:

中国农业大学动物科技学院教授
 国家动物遗传与育种重点实验室助理主任

主要研究方向:

动物基因组学与生物信息学，家禽遗传育种。综合利用生物信息、功能基因组等多种手段阐明家禽重要经济性状的遗传基础

Hou Zhuocheng: Professor of College of Animal Science and Technology, China Agricultural University. He is Assistant Director of Key Laboratory of Animal Genetics and Breeding. Prof. Hou is interested in developing and applying novel genomic and genetics methods in solving the genetic basis of avian phenotypes, developing new breeding methods in improving selection efficiency. His work benefits the basic studies in avian evolution, genetics and commercial breeding.



刘国世:

中国农业大学动物科技学院教授
 中国畜牧兽医学会动物繁殖学分会秘书长

主要研究方向:

家畜配子和胚胎发育调控机制和繁殖技术，近年来在褪黑调控卵母细胞成熟、颗粒细胞黄体化、早期胚胎发育与附植的理论研究中取得突破性进展，并将研究成果在家畜生产中应用；建立了褪黑素过表达羊乳腺反应器平台

Liu Guoshi: Professor of College of Animal Science and Technology, China Agricultural University. He is the General Secretary of the animal reproduction branch of the Chinese Society of Animal Husbandry and Veterinary Medicine. Prof. Liu's research focuses on the physiology of animal reproduction and gene editing in domestic animals. The overall objective of his laboratory is to improve reproductive efficiency in domestic animals by understanding the cellular and molecular mechanisms that regulate oocyte maturation and early embryonic development. His team investigates the role of melatonin in modulating animal reproduction and immunity and is the first to find that the mitochondria in oocyte can synthesis melatonin.



张万军:

中国农业大学草业科学与技术学院副教授、副院长

主要研究方向:

苜蓿、草坪草基因工程及育种方面的研究，应用基因工程及分子生物学的技术手段研究牧草品质形成及抗旱、耐盐的机制，旨在鉴定重要基因，并对其进行表达调控，以期创制育种材料，促进牧草育种进程

Zhang Wanjun: Associate Professor and Associate Dean of College of Grassland Science and Technology, China Agricultural University. Dr. Zhang's research mainly focusses on improving abiotic stress resistance and forage quality of grasses by genetic modification with the aim of creating new breeding materials.



戎郁萍:

中国农业大学草业科学与技术学院教授

主要研究方向:

草地资源管理，重点开展草地资源异质性、多样性及生产力变化规律以及草地资源碳汇管理等相关研究，包括最佳放牧管理对草地生态系统各组成部分的影响，诸如放牧草地的 CO₂ 通量和土壤中的温室气体 (CH₄ 和 CO₂) 通量

Rong Yuping: Professor of College of Grassland Science and Technology, China Agricultural University. Prof. Rong's research focuses on the plant materials used for rangeland restoration and grazing management to identify sustainable stocking rates for grassland in Northern China. Her research work includes the effects of optimal grazing management on the components of grassland ecosystem, such as CO₂ fluxes for the grazed grassland, greenhouse gases fluxes (CH₄ and CO₂) from soil.

**刘楠:**

中国农业大学草业科学与技术学院副教授

主要研究方向:

放牧草地管理与生态, 重点开展放牧草地土壤固碳途径与机制研究, 研究放牧家畜的采食、践踏和粪尿归还对草地植物 - 土壤 - 微生物三界面的作用途径和机制; 草地凋落物分解对土壤碳库的贡献以及植物根系周转及根际沉积过程的研究

Liu Nan: Associate Professor of College of Grassland Science and Technology, China Agricultural University. Dr. Liu's interests are in biodiversity, plant-soil interactions, soil carbon sequestration, and the balance between livestock and forage, utilizing a combination of experimental field and greenhouse studies. Her research mainly focuses on grazing grassland ecology and management, with an emphasis on belowground mechanisms, such as soil organic carbon forming and storage, and the process of litter decomposition and rhizodeposition.

**梁俊毅:**

中国农业大学草业科学与技术学院教授

主要研究方向:

利用野外 / 实验室控制实验、模型模拟、数据 - 模型融合等手段研究陆地生态系统对气候变化和人类扰动的影响。主要关注碳循环、微生物 - 植物 - 动物 - 环境交互作用、极端气候变化、草地生态系统的可持续利用

Liang Junyi: Professor of College of Grassland Science and Technology, China Agricultural University. Prof. Liang is mainly interested in terrestrial ecology and biogeochemical cycles. His research aims to improve the understanding of terrestrial ecosystems in response to climate change and human activities.



中國農業大學
China Agricultural University



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