The 15th International Symposium of Integrative Zoology

Program Book

Organized by
International Society of Zoological Sciences

Hosted by
School of Life Sciences, Central China Normal University
Institute of Hydrobiology, Chinese Academy of Sciences
Hubei Zoological Society
Hubei International Science and Technology Cooperation Base for Ecology and Environment
Plant-Animal Interaction Committee, ISZS
Institute of Zoology, Chinese Academy of Sciences
School of Ecology, Hainan University

Sponsored by
Department of International Affairs, China Association of Science and Technology
Central China Normal University
Integrative Zoology

October 30−31, 2026

Wuhan, China

1. Welcome message:

The 15th International Symposium of Integrative Zoology (15th ISIZ) will be held on October 30-31, 2026 in **Wuhan, China**. The theme of this symposium is "Ecology, Evolution, and Society (EES)". The symposium aims to foster interdisciplinary dialogue on EES and to explore how emerging tools such as AI, metagenomics, etc. can support biodiversity conservation, public health, resource management, and sustainable development.

This year is the 20th anniversary of *Integrative Zoology*, the official journal of ISZS. This journal emphasizes integrative and interdisciplinary studies which deal with the current ecological and environmental crises. During the symposium, we will discuss strategies for future development of the journal.

On behalf of the organizing committee, we warmly welcome you to attend the 15th ISIZ.

2. Organizer, hosts and sponsors:

The symposium is organized by:

International Society of Zoological Sciences (ISZS, www.globalzoology.org.cn)

The symposium is co-hosted by:

School of Life Sciences, Central China Normal University

Institute of Hydrobiology, Chinese Academy of Sciences

Hubei Zoological Society

Hubei International Science and Technology Cooperation Base for Ecology and Environment

Plant-Animal Interaction Committee, ISZS

Institute of Zoology, Chinese Academy of Sciences

School of Ecology, Hainan University

The symposium is sponsored by:

Department of International Affairs, China Association of Science and Technology

Central China Normal University

Integrative Zoology (INZ, www.wileyonlinelibrary.com/journal/inz)

3. Organization committee:

Chair:

Zhang, Zhibin, Executive Director, International Society of Zoological Sciences; Editor in Chief, *Integrative Zoology*; Professor, School of Ecology, Hainan University

Members (in alphabetical order):

Buckeridge, John, RMIT University

Chen, Chuanwu, Nanjing Normal University

Chen, Junfeng, Institute of Zoology, Chinese Academy of Sciences

Cui, Zhongdan, Central China Normal University

Ding, Jianan, Central China Normal University

Gao, Yufang, IUCN SSC China Species Specialist Group

Heinze, Juergen, University of Regensburg

Holyoak, Marcel, University of California, Davis

Jin, Jianshi, Institute of Zoology, Chinese Academy of Sciences

Lemaoji, Xizang University

Li, Aoqiang, Central China Normal University

Liu, Ming, International Society of Zoological Sciences

Liu, Xuan, Beijing Normal University

Luo, Jinhong, Central China Normal University

Niu, Hongyu, Central China Normal University

Si, Xingfeng, Zhejiang University

Song, Gang, Institute of Zoology, Chinese Academy of Sciences

Sun, Baojun, Institute of Zoology, Chinese Academy of Sciences

Wang, Dehua, Shandong University

Xiao, Zhishu, Institute of Zoology, Chinese Academy of Sciences

Xie, Yan, Institute of Zoology, Chinese Academy of Sciences

Xing, Xin, Shenyang Normal University

Xiong, Wenhua, International Society of Zoological Sciences

Ye, Huan, Central China Normal University

Zhan, Xiangjiang, Institute of Zoology, Chinese Academy of Sciences

Zhang, Di, Central China Normal University

Zhang, Hongmao, Central China Normal University

Zhang, Wei, International Society of Zoological Sciences

4. Time: October 30-31, 2026 (Check in time: October 29, 14:00-22:00)

5. Hotel: Wuhan Rongtong Zhongnan Garden Hotel (No. 558 Wuluo Road, Wuchang District, Wuhan). [武汉融通中南花园酒店，湖北省武汉市武昌区武珞路 558 号].

6. Meals: Breakfast is served in your hotel. Each invited speaker and registered participant will receive 2 lunch vouchers and 3 dinner vouchers. Dinner is served from 18:00 to 20:00 on October 29, 30, and 31. Lunch is served from 12:00 to 13:30 on October 30 and 31. Please remember to bring your meal vouchers for meals.

7. Travel and medical insurance: All participants are responsible to arrange their own travel and medical insurance for attending the symposium.

8. Visa application: Foreign or oversea participants are required to take a visa or special certificate to enter China for attending the meeting.

9. Transportation:

Wuhan transportation is served by Wuhan Tianhe International Airport (WUH) and four main railway stations: Wuhan, Hankou, Wuchang and Wuhan East.

Destination: Wuhan Rongtong Zhongnan Garden Hotel, No. 558 Wuluo Road, Wuchang District, Wuhan. [武汉融通中南花园酒店，湖北省武汉市武昌区武珞路 558 号].

By metro: Take the routes below to Baotong Temple [宝通寺] station on Line 2. The hotel is approximately 450 metres from Exit A.

Arrival point	Metro route to Baotong Temple	Estimated Time (min)
Tianhe International Airport (WUH)	Line 2 towards Fozuling [佛祖岭] Direction, get off at Baotong Temple [宝通寺].	85
Wuhan Railway Station	Line 4 towards Bolin [柏林] and transfer at Zhongnan Road [中南路] to Line 2 towards Fozuling and get off at Baotong Temple.	40
Hankou Railway Station	Line 2 towards Fozuling, get off at Baotong Temple.	55
Wuchang Railway Station	Line 4 towards Direction to Zhongnan Road; transfer to Line 2 towards Fozuling and get off at Baotong Temple.	20
Wuhan East Railway Station (Wuhandong)	Line 2 towards Tianhe Airport, directly to Baotong Temple.	40

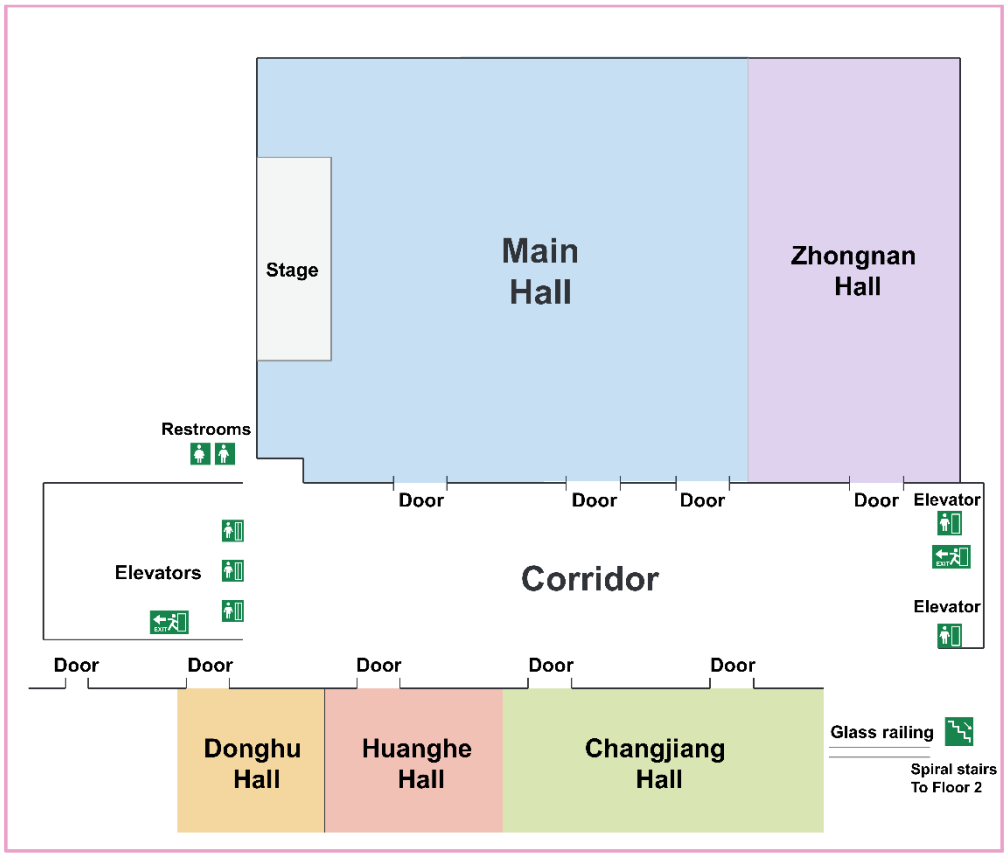
From Exit A, walk west along Wuluo Road for approximately 450 meters (about 5–10 minutes) to the hotel entrance.

By taxi: The journey from Tianhe Airport to the hotel takes approximately 40–60 minutes and costs around CNY 100. These are indicative estimates; actual fares and travel times vary with traffic, route and time of day. Show the driver the Chinese hotel name and address: 武汉融通中南花园酒店，武汉市武昌区武珞路 558 号.

10. Meeting venue

国际动物学会
The International Society of Zoological Sciences
中国北京朝阳区北辰西路 1 号院 5 号 C506 室 邮编：100101
C-506, Institute of Zoology, Chinese Academy of Sciences
1 Beichen West Road, Chaoyang District, Beijing 100101, P.R. China
Tel/Fax: +86-010-64807295; Email: iszs@ioz.ac.cn; Web: www.globalzoology.org.cn

Nanyuan Building Third Floor Plan



Conference Venue Map (3rd Floor, Nanyuan Building)

All sessions will be held on the 3rd floor of the Nanyuan Building at Wuhan Rongtong Zhongnan Garden Hotel (for details, see “Meeting schedule” part).

11. Meeting schedule:

I. Program Overview

Place/Time	Session
Afternoon, 29th October	
Hotel Lobby	Arrival and registration
Morning, 30th October	
Main Hall	Opening Ceremony & Plenary presentations
Afternoon, 30th October	
Huanghe Hall	Parallel Session A: Herpetology (Chairs: Sun, Baojun & Yang, Weizhao)
Zhongnan Hall	Parallel Session B: Evolutionary Biology Part A (Chairs: Irving, Aaron & Wang, Yufeng)
Donghu Hall	Parallel Session C: Special Symposium in Memory of Professor Wang Sung for His Contribution to Biodiversity Conservation (Chairs: Xie, Yan & Wu, Hongyun)
Changjiang Hall	Parallel Session D: Ornithology and Conservation (Chairs: He, Shunping & Song, Gang)
Central Corridor	Poster Session
Evening, 30th October	
Changjiang Hall	Joint meeting for ISZS section committee & INZ board member & Celebrating the Journal's 20th Anniversary of Integrative Zoology
Morning, 31st October	
Zhongnan Hall	Parallel Session A: Evolutionary Biology Part B (Chairs: Chen, Junfeng & Makino, Takashi)
Huanghe Hall	Parallel Session B: Ecophysiology (Chairs: Wang, Dehua & Xing, Xin)
Donghu Hall	Parallel Session C: Local Knowledge and Conservation Practice (Chairs: Gao, Yufang & Le, Maoji)
Changjiang Hall	Parallel Session D: Bioacoustics and Environmental Adaptation (Chairs: Luo, Jinhong & Zhou, Youbing)
Afternoon, 31st October	
Zhongnan Hall	Parallel Session A: Species Interaction

	(Chairs: Zhang, Hongmao & Si, Xingfeng)
Changjiang Hall	Parallel Session B: Youth Working Group (Chairs: Liu, Xuan & Chen, Chuanwu)
Huanghe Hall	Parallel Session C: Participant Talks (Chair: Ye, Zhiqiang)
Main Hall	Closing Ceremony (Chair: Luo, Jinhong)
1st November	
Departure	

II. October 30 Morning

Opening Ceremony & Plenary Presentations
Time: 9:00-12:00; Room: Main Hall
Chair: Zhang, Zhibin

Time	Speaker	Title
9:00-9:40	**TBD**	Opening Ceremony and Group Photo
9:40-10:10	**Zhang, Yaping** CAS Academician; Kunming Institute of Zoology, Chinese Academy of Sciences (CAS)	Novel Canid Animal Models for Social Deficits and Therapeutic Development
10:10-10:30	**Tea Break**	
10:30-11:00	**Gui, Jianfang** CAS Academician; Institute of Hydrobiology, Chinese Academy of Sciences	Genome Reconstruction and Precision Breeding in Polyploid Crucian Carp
11:00-11:30	**Buckeridge, John** RMIT University	The Approaching AI Singularity: The Challenges and Opportunities That This Poses to Biologists
11:30-12:00	**He, Shunping** CAS Academician; Institute of Hydrobiology, Chinese Academy of Sciences	Constructing Life Tree, Decipher How Vertebrate Colonize the Earth

III. October 30 Afternoon

Parallel Session A: Herpetology
Time: 14:00-17:00; Room: Huanghe Hall
Chairs: Sun, Baojun & Yang, Weizhao

Time	Speaker	Title
14:00-14:20	**Du, Weiguo** Fudan University	Predicting the Vulnerability of Reptiles to Climate Warming: The Importance of Embryo Physiology
14:20-14:40	**Borzée, Amaël** Nanjing Forestry University	Priorities and Recommendations for Global Amphibian Biodiversity
14:40-15:00	**Liu, Yang** Shaanxi Normal University	Evolution of Ultraviolet Vision in Frogs and Toads
15:00-15:20	**Oskyrko, Oleksandra** Fudan University	Predicting the Shape of Life: How Animal Morphology Responds to Rapid Climate Change
15:20-15:40	**Yang, Weizhao** Chengdu Institute of Biology, Chinese Academy of Sciences	Developmental and Evolutionary Insights into Amniote Skin Appendages from Leopard Gecko Embryogenesis
15:40-16:00	**Hussain, Abid** Chengdu Institute of Biology, Chinese Academy of Sciences	Roles of Movement-Based Visual Signals in Species Identification and Potential Formation Mechanisms in *Phrynocephalus* Lizards
16:00-16:20	**Muhammad, Salman** Fudan University	Conservation Population Genomics: Assessing Genetic Diversity and Threats in China's Native Turtles
16:20-16:40	**Li, Jun** Central China Normal University	Evolutionary and Molecular Mechanisms of Sexually Dimorphic Nuptial Spines in Moustache Toads
16:40-17:00	**Sun, Baojun** Institute of Zoology, Chinese Academy of Sciences	Climate Vulnerability in Reptiles: Latitudinal Pattern and Metabolic Basis

Parallel Session B: Evolutionary Biology Part A
Time: 14:00-17:00; Room: Zhongnan Hall
Chairs: Irving, Aaron & Wang, Yufeng

Time	Speaker	Title
14:00-14:20	**Heinze, Juergen** Universität Regensburg	Conflict in the Family: Lethal Fighting in Insect Societies
14:20-14:40	**Gao, Shan** Ocean University of China	A distinct subclade of AlkB family demethylases safeguards the positional fidelity of eukaryotic N6-methyladenine (6mA)
14:40-15:00	**Wu, Dongdong** Kunming Institute of Zoology, Chinese Academy of Sciences	Non-Human Primate Genetics and Evolution
15:00-15:20	**Liu, Jie** **Hubei University**	Blue light restores functional circadian clocks in eyeless cave spiders
15:20-15:40	**Irving, Aaron** Guangzhou Laboratory	Adaptive Evolution and Viral Restriction between Different Bat Clades
15:40-16:00	**Xiong, Jie** Institute of Hydrobiology, Chinese Academy of Sciences	Innovation of Cellular Structures in Protozoa
16:00-16:20	**Yang, Liandong** Institute of Hydrobiology, Chinese Academy of Sciences	Diversification and Adaptive Evolution in Major Fish Lineages
16:20-16:40	**Wang, Jialin** Central China Normal University	Aβ-1,3-glucan-binding protein coordinates immune homeostasis and development via a microbiota-metabolite-peritrophic matrix regulatory axis
16:40-17:00	**Li, Daiqin** Hubei University	Flicker Fusion Camouflage: When Motion Conceals Rather than Reveals

Parallel Session C: Special Symposium in Memory of Professor Wang Sung for His Contribution to Biodiversity Conservation
Time: 14:00-18:00; Room: Donghu Hall
Chairs: Xie, Yan & Wu, Hongyun

Time	Speaker	Title
14:00-14:20	**Video by Xu, Jian & Ding, Quan** China Conservation Oral History Project	A Video: In Memoriam: Prof. Wang Sung
14:20-14:40	**MacKinnon, John (Online)** Co-chair, IAPA/ISZS Committee	The Development of Nature Conservation in China: My Shared Journey with Wang Sung
14:40-15:00	**Morgan, David H.W. (Online)** Retired Expert, CITES Secretariat	Global Progress of CITES and Wang Sung's Contributions
15:00-15:20	**Zeng, Yan (Online)** Office of the National Endangered Species Scientific Commission; Member	Wang Sung and the Development History of CITES in China
15:20-15:40	**Fan, Enyuan** Chinese Academy of Fishery Sciences	China's Key Protected Aquatic Wildlife Listing and Wang Sung's Contributions
15:40-16:00	**Borzée, Amaël** Chair, IUCN SSC Amphibian Specialist Group	Global and Chinese Progress in Amphibian Conservation
16:00-16:20	**Gao, Yufang** Co-Chair, IUCN/SSC China Species Specialist Group	Passing the Torch: Prof. Wang Sung's Support for the Next Generation of China's Nature Conservationists
16:20-16:40	**Xie, Yan** Institute of Zoology, Chinese Academy of Sciences	Carrying Forward the Legacy: Bringing Chinese Nature Conservation to the World
16:40-17:00	**Wu, Hongyun** COH Crew, China Conservation Oral History	China Conservation Oral History Project Overview and Website Proposal

Parallel Session D: Ornithology and Conservation
Time: 14:00-17:00; Room: Changjiang Hall
Chairs: He, Shunping & Song, Gang

Time	Speaker	Title
14:00-14:20	**Zhang, Guojie** Zhejiang University	Phylogenomics Insights into Diversity of Modern Birds
14:20-14:40	**Yao, Meng** Peking University	Beyond Diet: Fecal DNA Metabarcoding Uncovers Trophic Networks and Coexistence Mechanisms
14:40-15:00	**Sharshov, Kirill** Federal Research Center of Fundamental and Translational Medicine, Russia	Integrative Viral Metagenomics of Wild Bird Viromes in the Asian Part of Russia: Novel Pathogens and Ecological Insights
15:00-15:20	**Tufail, Amina** Institute of Zoology, Chinese Academy of Sciences	Genomic and Functional Profiling Reveals Clinically Relevant Traits Across Diverse Nontuberculosis Mycobacterium (NTM)
15:20-15:40	**Zhang, Jinggang** Beijing Normal University	Learning about danger before fledging: From adult alarm calls to peer transmission
15:40-16:00	**Jiang, Demeng** Southwest Forestry University	Avian Diversity Responses to Photovoltaic Coverage and Landscape Pattern in Rocky Desertification Systems
16:00-16:20	**Ameca, Eric I.** Hainan University	Extreme Climatic Events: An Emergent Threat Compounding Human Pressures on Biodiversity
16:20-16:40	**Akhrorov, Dilshod** Institute of Zoology, Chinese Academy of Sciences	Eco-Evolutionary Determinants of Avian Diversity across Central Asia
16:40-17:00	**Lv, Lei** Hainan University	Bird population dynamics in response to global change

Poster Session and Tea Break

Time: 17:00-18:00
Place: Central Corridor, 3rd Floor, Nanyuan Building

IV. October 31 Morning

Parallel Session A: Evolutionary Biology Part B
Time: 08:30-12:00; Room: Zhongnan Hall
Chairs: Chen, Junfeng & Makino, Takashi

Time	Speaker	Title
08:30-08:50	**Zhan, Xiangjiang** Institute of Zoology, Chinese Academy of Sciences	Bird Migration: Interdisciplinary Science Studies
08:50-09:10	**Makino, Takashi** Tohoku University	Gene Duplication as a Genomic Basis of Environmental Adaptability
09:10-09:30	**Zhao, Huabin** Wuhan University	Spanning Sixty Million Years: Bat Diversity and Evolutionary Ecology
09:30-09:50	**Sin, Simon Yung Wa (Online)** University of Hong Kong	Evolutionary History and Conservation Genomics of Cascade Frogs (Genus *Amolops*) in South China: From Island Biogeography to Conservation
09:50-10:10	**Zhang, Wei** Peking University	Evolution and Diversification of Mimicry and Masquerade in Butterflies
10:10-10:40		**Tea Break**
10:40-11:00	**Li, Menghua** China Agricultural University	Genetic Basis of the Flee Response against Predation and Tameness in the Wild-To-Domestic Transition
11:00-11:20	**Guo, Baocheng** Institute of Zoology, Chinese Academy of Sciences	Evolutionary Genomics in Stickleback Biodiversity
11:20-11:40	**Li, Chade** The Chinese University of Hong Kong	Insect Metamorphosis and Interaction between Insects and Plants
11:40-12:00	**Yan, Ying** Ocean University of China	Contrasting modes of intron evolution in ciliates

Parallel Session B: Ecophysiology
Time: 08:30-12:00; Room: Huanghe Hall
Chairs: Wang, Dehua & Xing, Xin

Time	Speaker	Title
08:30-08:50	**Luna, Facundo (Online)** Universidad Nacional de Mar del Plata	Thermoregulation Underground: How Fossorial Rodents Deal with the Burrow Environment
08:50-09:10	**Li, Xingsheng (Online)** University of Alabama at Birmingham	Targeting Hepatic Oxalate Metabolism to Reduce Urinary Oxalate Excretion in Primary Hyperoxaluria Models
09:10-09:30	**Platto, Sara** Jianghan University	First Detection of Fecal Immunoglobulin A in the Yangtze Finless Porpoise (*Neophocaena Phocaenoides Asiaeorientalis*) Using a Species-Specific Antibody: Possible Implication for Animal Welfare
09:30-09:50	**Bo, Tingbei** Beijing Forestry University	From Gut Microbiota to Host Phenotype: Research on Physiological Adaptation Mechanisms of Wild Animals
09:50-10:10	**Wang, Xinxing** Shandong University	Physiological and Genetic Regulation of Water Homeostasis in Desert-Adapted Mongolian Gerbils (*Meriones unguiculatus*)
10:10-10:40		**Tea Break**
10:40-11:00	**Xing, Xin** Shenyang Normal University	Unique Adaptive Mechanisms of Fat Accumulation and Adipose Tissue Remodeling Supporting Hibernation in Daurian Ground Squirrels
11:00-11:20	**Zhang, Yaohua** Anhui University	Invasion and Adaptation Mechanisms of *Rattus Norvegicus* and *Rattus Tanezumi*
11:20-11:40	**Yang, Guang** Nanchang University	Three Birds with One Stone: Synergistic Pleiotropy of a Single NFIA Variant Underpins Secondary Aquatic Adaptation
11:40-12:00	**Wang, Dehua** Shandong University	Brown Adipose Tissue (BAT) and Non-Shivering Thermogenesis (NST) in Small Mammals

Parallel Session C: Local Knowledge and Conservation Practice
Time: 08:30-12:00; Room: Donghu Hall
Chairs: Gao, Yufang & Le, Maoji

Time	Speaker	Title
08:30-08:50	**Xiao, Yufei (Online)** University of Colorado Boulder	Mechanism of Community-Led Grassland Restoration and Adaptive Grazing in Zoige, Eastern Qinghai-Tibetan Plateau
08:50-09:10	**Lu, Lingda** Imperial College London	Impact of roads in African Development Corridors on functional connectivity for lions across the Kavango–Zambezi Transfrontier Conservation Area
09:10-09:30	**Yu, Jing** Hong Kong University of Science and Technology (Guangzhou)	Negotiating Knowledge Systems in Mangrove Restoration: Local Communities, State Programs, and Ecological Science in Gubat, Sorsogon, Philippines
09:30-09:50	**Wang, Ruikang** Duke Kunshan University	Reading a Changing River: Local Knowledge, Citizen Science, and Riverine Fish Conservation in Chiang Khong, Northern Thailand
09:50-10:10	**Zhao, Mengfan** East China University of Science and Technology	How Does Local Ecological Knowledge Enter the Nature Education Market? Observations on Ecological Value Translation in a Naxi Village, Yunnan
10:10-10:40	**Tea Break**	
10:40-11:00	**Rinzin, Phunjok Lama (Online)** Upper Karnali Landscape Initiative, Nepal	Community-led Snow leopard Conservation in Northwestern Nepal
11:00-11:20	**Zhang, Yibo** Osaka University	Different Values, Shared Practices: Enacting Conservation through a Community Eco-Diary Initiative on the Qinghai–Tibet Plateau
11:20-11:40	**Le, Maoji** Xizang University	Who Counts as a Conservation Partner? Tibetan Pastoral Women in Black-necked Crane Conservation in Nyenpo Yurtse, China

11:40-12:00	**Drescher, Lynn** National University of Singapore	Negotiating values on urban coasts: interdisciplinary data on non-material contributions across shoreline protection designs, time, and stakeholders

Parallel Session D: Bioacoustics and Environmental Adaptation
Time: 08:30-12:00; Room: Changjiang Hall
Chairs: Luo, Jinhong & Zhou, Youbing

Time	Speaker	Title
08:30-08:50	**Wang, Ding** Institute of Hydrobiology, Chinese Academy of Sciences	Integrative Conservation on the Yangtze Finless Porpoise
08:50-09:10	**Yovel, Yossi** Tel Aviv University	From Sensory Decision Making to Large-Scale Cognitive Maps in Echolocation Bats
09:10-09:30	**Li, Shuqiang** Anhui Normal University	Spiders of Xishuangbanna Tropical Botanical Garden
09:30-09:50	**Li, Songhai** Institute of Deep-sea Science and Engineering, Chinese Academy of Sciences	Giants and Beautiful Oceans
09:50-10:10	**Guo, Songtao** Northwest University	Leveraging AI for Animal Diversity Protection
10:10-10:40	**Tea Break**	
10:40-11:00	**Tsunada, Joji** Chinese Institute for Brain Research, Beijing	From Vocal Planning to Acoustic Output: Prefrontal and Midbrain Mechanisms of Flexible Vocal Control in Marmoset Monkeys
11:00-11:20	**Zhang, Xinyang** Xianghu Lab	Acoustic Communication in Crickets
11:20-11:40	**Hechavarria, Julio** Free University of Berlin	Bats Got Rhythm: Linking Neural Oscillations to Natural Behavior
11:40-12:00	**Luo, Jinhong** Central China Normal University	How Bats Control Their Voices: Auditory Mechanisms for High-Performance Echolocation

V. October 31 Afternoon

Parallel Session A: Species Interaction
Time: 13:30-15:30; Room: Zhongnan Hall
Chairs: Zhang, Hongmao & Si, Xingfeng

Time	Speaker	Title
13:30-13:50	**Holyoak, Marcel** University of California, Davis	The potential of large-scale studies of vertebrate food webs and species interaction networks
13:50-14:10	**Zhong, Zhiwei** Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences	Pikas facilitate yak growth at moderate densities in the Qinghai-Tibetan Plateau
14:10-14:30	**Si, Xingfeng** Zhejiang University	Small and mobile birds are cornerstones in the plant-frugivore meta-network on forested islands
14:30-14:50	**Yan, Chuan** Lanzhou University	Temporal integration of diurnal and nocturnal interactions enhances the robustness of plant-pollinator networks
14:50-15:10	**Feng, Yingqun** Central China Normal University	Sex-Specific Reproductive Responses to Urbanization in Rodents: Phenotypic and Gonadal Transcriptomic Evidence
15:10-15:30	**Goodale, Eben** Xi'an Jiaotong-Liverpool University	Mixed-species flocks and mobbing aggregations at Thousand Island Lake: How island area is related to sociality, diversity, and information flow

Parallel Session B: Youth Working Group
Time: 13:30-15:30; Room: Changjiang Hall
Chairs: Liu, Xuan & Chen, Chuanwu

Time	Speaker	Title
13:30-13:50	**Zhou, Zizhang** Jiangxi Normal University	Balancing Proliferation and Death: Uncovering the Non-Epigenetic Regulatory Functions of Hdac3

13:50-14:10	**Song, Ying** Institute of Plant Protection, Chinese Academy of Agricultural Sciences	Admixture of Population Structure Reveals Recent Invasion of Norway Rats from Western Eurasia into Northwest China
14:10-14:30	**Han, Ziduan** Northwest A&F University	The Evolution of Plant Parasitism in Nematodes: Insights from Facultative Plant Parasites
14:30-14:50	**Ludege, Denis Stephen** Institute of Zoology, CAS	Host Species Determines Gut Microbiota Composition, Whereas Horizontal Gene Transfer Preserves a Conserved Gut Resistome
14:50-15:10	**Tian, Tian** China Three Gorges University	Ultrasonic Features and Reproductive Biology in the Echolocating Dalou Mountains Tree Mouse
15:10-15:30	**Tong, Zeyu** Central China Normal University	Pollinator behavioral shifts from nectar- to pollen-foraging explain evolutionary transitions in plant-pollinator mutualisms

Parallel Session C: Participant Talks
Time: 13:30-15:30; Room: Huanghe Hall
Chair: Ye, Zhiqiang

Time	Speaker	Title
13:30-13:50	**Willines, Clara Alex** Institute of Zoology, CAS	Trait Sociality Shapes Chronic Stress Responses in Solitary *Tscherskia triton* and Social Sprague–Dawley Rats
13:50-14:10	**Zhou, Fei** Lanzhou University	Dietary Composition Rather Than Richness Covaries with Gut Microbiomes Across Multiple Ecological Scales in Wild Rodents
14:10-14:30	**Yao, Zishan** Lanzhou University	Global Threats to Ecosystem Functionality from Mammal Defaunation

14:30-14:50	**Guo, Fuxuan** Northwest A&F University	Transcriptomic dynamics of dauer formation in nematode *Pristionchus pacificus*
14:50-15:10	**Zhu, Hanyi** Hainan University	Gut microbiota and butyric acid are associated with density-dependent social stress and reproduction in small rodents
15:10-15:30	**Ye, Zhiqiang** Central China Normal University	Evolutionary Genomics of Host Manipulation by Zombie-Ant Fungi

Closing Ceremony
Time: 15:40-16:00; Room: Main Hall
Chair: Luo, Jinhong

12. Poster Presentations

No.	Name	Affiliation	Poster Title
1	Xu, Xiajuan	Northeast Forestry University	Deep learning for bird acoustic monitoring: approaches, challenges, and prospects
2	Ji, Xianglin	Anhui University	Multidimensional diversity of wintering waterbird communities in natural and artificial wetlands of Huayanghe Lakes under agricultural disturbance
3	Huang, Baoxiang	Northeast Forestry University	Seed-Rodent Interactions Driven by Cascade Effects in Temperate Forests
4	Wang, Tong	Shandong Agricultural University	Reduced abundance of selected volatiles following acoustic stimulation in adult *Spodoptera frugiperda*
5	Ren, Shien	Northwest A&F University	Grazing is associated with dietary diversity and gastrointestinal microbiota in subterranean rodents
6	Varakina, Elizaveta D.	Russian Academy of Sciences	Diversity of Cladocera and Conchostraca (Crustacea: Branchiopoda) in the permanent and temporary water bodies of Central Mongolia
7	Wang, Shaoya	Central China Normal University	Phenotypic responses of rodents to urbanization and their environmental correlates
8	Wen, Yanting	Central China Normal University	Assessment of the Ototoxicity of Polyethylene Microplastics in C57BL/6J Mice
9	Xie, Cunjie	Central China Normal University	Functional compensation of ADH4 underpins dietary ethanol adaptation in megabats lacking canonical ADH1
10	Hu, Chun-Lue	Central China Normal University	Beyond the classical syndrome: mechanistic insights into bat pollination systems in tropical Asia

No.	Name	Affiliation	Poster Title
11	Zeng, Xin	Central China Normal University	Torularhodin Attenuates Allergic Asthma Aggravated by Nanoplastics by Modulating the Gut-Lung Axis and PLA2/TRPV1–NF-κB Pathway
12	Zhang, Huabao	Central China Normal University	Analyses of N6-methyladenine DNA (6mA) modification reveals demethylating effects induced by *Wolbachia* in the testis of *Drosophila*
13	Zhou, Shiqi	Central China Normal University	From Phenotypes to Evolutionary Frameworks: Investigating Ophiocordyceps-Induced Behavioral Manipulation in Zombie Ants
14	Hao, Xiyang	Lanzhou University	Integrating trophic importance into conservation of terrestrial vertebrates
15	Man, Yanjun	Northwest A&F University	Symbiotic Bacterial Phases Play Different Roles in the Life Cycle of H. bacteriophora

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137	Xiao, Yufei	University of Colorado Boulder
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167	Zhang, Jiaxuan	Central China Normal University
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182	Zhou, Shiyu	Central China Normal University
183	Zhou, Youbing	China Three Gorges University
184	Zhou, Zizhang	Jiangxi Normal University
185	Zhu, Hanyi	Hainan University
186	Zou, Jianwen	Central China Normal University

14. Institutional Profiles

Central China Normal University

Central China Normal University (CCNU) is a key comprehensive normal university directly administered by the Ministry of Education of China. Located on Guizi Mountain near South Lake in Wuhan, it is included in China's Project 211 and Double First-Class initiative. The university has a long history, with its principal roots in the collegiate division of Wenhua Academy, established in 1903; Zhonghua University, founded in 1912; and Zhongyuan University, founded in 1948. The university adopted its present name in 1985.

CCNU offers undergraduate, master's and doctoral programs across the humanities, social sciences, natural sciences and other fields, together with postdoctoral research opportunities. Its academic programs span 12 broad disciplinary categories. Education, political science, and Chinese language and literature are its three national Double First-Class disciplines. Its research also encompasses physics, chemistry, life sciences and environmental studies, supported by national and provincial laboratories, research centres and interdisciplinary platforms. Teacher education and educational research are important areas of the university’s teaching and research activities.

The university combines academic training with research, professional practice and public engagement. Its libraries, museums and campus cultural activities support learning beyond the classroom. CCNU has established partnerships with universities and educational institutions around the world, supporting student exchanges, joint programs and collaborative research. It welcomes international students and visiting scholars, and provides opportunities for cooperation across disciplines.

Institute of Hydrobiology
Chinese Academy of Sciences

The Institute of Hydrobiology (IHB), Chinese Academy of Sciences, is a comprehensive research institution dedicated to inland aquatic life processes, aquatic environmental protection and biological resources. Its origins trace to the Natural History Museum of Academia Sinica, established in Nanjing in January 1930. IHB was formed in Shanghai in February 1950 and moved to Wuhan in September 1954.

IHB investigates freshwater biodiversity and adaptive evolution, fish biology and genetic breeding, aquatic ecosystem protection, sustainable fisheries and microalgal biotechnology. Its work connects fundamental biological research with the conservation of aquatic resources and the restoration of water environments. Its three research centres focus on aquatic biodiversity and aquatic environmental protection, aquatic germplasm innovation and future fisheries development, and algae and biomanufacturing.

The institute supports research through national key laboratories, a national aquatic germplasm resource bank, field stations, a freshwater fish museum and a freshwater algal culture collection. Its Baiji Dolphinarium provides facilities for research and conservation of freshwater cetaceans. Long-term field observations and experiments underpin studies of lakes, rivers and threatened aquatic species, including the Yangtze finless porpoise.

IHB offers master's and doctoral training, with postdoctoral research stations in Biology, Environmental Science and Engineering, and Fisheries Science. International partnerships support joint research, scientific visits and specialist training, extending its contribution to freshwater science and biodiversity conservation.

School of Life Sciences
Central China Normal University

The School of Life Sciences at Central China Normal University combines biological research with a long-standing commitment to science education. Its origins lie in the Department of Biology of Huachung University, established in 1924. It became the Department of Biology of Huazhong Teachers College in 1953 and was reorganised as the School of Life Sciences in 1995.

The School offers undergraduate programs in Biological Sciences and Biotechnology, as well as an interdisciplinary chemistry-biology programme. Graduate education includes master's and doctoral programs in Biology and Ecology and a professional master's programme in Biology and Medicine. Postdoctoral research is supported in Biology and Plant Protection. The Biological Sciences programme has received national recognition for undergraduate teaching and Level III accreditation, the highest level of the Ministry of Education's accreditation for teacher education programs.

Research and training are supported by the Ministry of Education Key Laboratory of Pesticides and Chemical Biology (Molecular Regulation and Biosynthesis), a national virtual simulation centre for biology teaching, and the Ministry of Education field observation and research station for plateau complex ecosystems in Shangri-La, Yunnan. Shared facilities provide access to advanced microscopy, flow cytometry, mass spectrometry and other analytical techniques. The School's Biological Museum is a nationally recognised science education base and supports teaching and public science education.

The School maintains international research partnerships and provides education for international students. Approved international education programs involve the University of Dundee, Swinburne University of Technology and the University of Newcastle.

Hubei Zoological Society

The Hubei Zoological Society (HZS) was founded in 1950 and is based in Wuhan, Hubei Province, China. It is a non-profit academic society operating under the guidance of the Hubei Association for Science and Technology, with support from the Institute of Hydrobiology, Chinese Academy of Sciences. The current president is **Professor Shunping He, a member of the Chinese Academy of Sciences**. The Society has more than 1,000 members from 53 universities, research institutes, and related organizations across Hubei Province.

The Society works to advance research in zoology and related fields, including animal taxonomy, evolution, biogeography, ecology, genetics, developmental biology, conservation biology, and aquatic biology. Over the years, its members have made important contributions to fish evolution, aquatic biodiversity, aquaculture genetics and breeding, and conservation of the Yangtze River ecosystem.

The Society organizes academic conferences, seminars, training courses, and public education activities. These activities provide opportunities for researchers to share their findings, develop collaborations, and support young scientists. The Society also promotes biodiversity conservation and the practical use of scientific research in environmental protection and the sustainable use of biological resources.

The Hubei Zoological Society welcomes collaboration with universities, research institutes, and scientific societies worldwide. It will continue to support research, scientific exchange, and education in zoology, with a focus on biodiversity conservation and the development of zoological science.

Hubei International Science and Technology Cooperation Base for Ecology and Environment

The Hubei International Science and Technology Cooperation Base for Ecology and Environment (HISTEC) was approved for establishment in 2014. Located in Wuhan, Hubei Province, China, HISTEC is a provincial platform overseen by the Hubei Association for Science and Technology and hosted by Central China Normal University, with primary support from the School of Life Sciences. Directed by Professor Jinhong Luo, HISTEC has more than 40 permanent research staff. Bringing together established scholars and early-career researchers in ecology, environmental science, and related life sciences, HISTEC serves as an important platform for the University's international research collaboration, disciplinary development, and talent cultivation.

HISTEC is dedicated to scientific research and international collaborative innovation in ecology and the environment, addressing global needs in ecological security and health. Its research encompasses pathogenic organisms and ecological security, urban ecological security and health, low-altitude ecology and safety, restoration of fragile ecosystems, plant and animal invasions, and pest management. Over the years, HISTEC researchers have conducted a series of studies on plant–pollinator coevolution, biodiversity conservation, and environmental health risk monitoring. Since its establishment, they have jointly published numerous high-quality research papers with international collaborators.

HISTEC actively promotes international academic exchange and collaboration with universities and research institutions abroad, such as the United Kingdom, the United States, Israel, and Germany. Through joint research, academic visits, international conferences, and joint student training, HISTEC provides opportunities for researchers to share findings, develop collaborations, and support early-career talent. HISTEC also seeks to connect basic research with practical applications, supporting environmental protection and the development of the biomedical and broader health industries in Hubei Province. Looking ahead, HISTEC will continue to strengthen collaboration with research institutions in China and abroad, expand interdisciplinary research and talent development, and advance scientific innovation in ecological security and health, contributing to biodiversity conservation and regional green development.

Conference Notes

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