

# “一带一路”地区昆虫多样性格局评估与智能监测体系关键技术培训班

## 报名通知（第一轮）

### 1. 培训班背景简介

共建“一带一路”是中国提出的一项重大国际合作倡议，是推动构建人类命运共同体的重要实践平台。今年是共建“一带一路”倡议提出十周年，加入“一带一路”倡议的国家和地区不断增加，国际交流的深度和广度也达到了一个新高度，与此同时，维持生物多样性平衡与可持续发展是“一带一路”各国面临的重要挑战。

伴随联合国可持续发展目标（SDGs）的提出，保护、恢复和促进可持续利用陆地生态系统、遏制生物多样性丧失是解决当今世界面临的严峻挑战的方案之一。21世纪初，在国际《生物多样性公约》的倡导下，随着千年生态系统评估、全球环境展望、国际生物多样性计划等项目的有效实施，生物多样性监测评价指标体系逐步建立和完善，对生物多样性保护发挥了重要作用。

昆虫是地球上进化最为成功的生物群体，已知现生种数超过 100 万，占据动物界的 90%以上和整个生物界总种数的 54%，是构成地球生物多样性的的重要组成部分，但也是最难监测和评估的类群之一。在此背景下，中国科学院动物研究所白明研究员和英国自然历史博物馆 Vogler 教授联合发起了“SITE-100 国际大科学计划”，通过全球构建 100 个以上标准样地和标准化分析流程，揭示全球昆虫多样性格局和形成机制。

本培训班旨在促进“一带一路”地区科技培训与合作，在昆虫多样性格局评估、昆虫智能监测体系等方面形成技术标准体系，构建“一带一路”昆虫多样性格局评估与智能监测体系联盟。通过共同努力以破除单一国家无法解决的生态矛盾，践行人类命运共同体的全球价值观。

## 2. 学员报名

本培训班通过教授昆虫多样性以及交叉学科的基础理论知识和前沿研究技术，提升“一带一路”国家昆虫多样性调查和监测能力，培养相关领域的国际人才，搭建青年科学家研究网络。

有志于开展“一带一路”国家和地区昆虫多样性格局评估和监测研究的青年学者均可报名，特别是昆虫学、动物学、生态学、生物多样性等领域的青年学者、博士后和博士生。本次培训将提供 20 个免费名额，将依据学员国籍、资历等进行筛选。

## 3. 培训内容

培训班将由中国科学院动物研究所白明研究员主持。采用理论讲座、野外实践及软件操作三位一体的方式进行授课。目前已经邀请了德国基尔大学、英国帝国理工大学、香港大学、中国科学院、中国高校等机构的知名学者讲授课程，具体培训日程将在第二轮通知发布。

## 4. 培训形式

培训时间：2023.10.10-2023.10.28

培训方式：线下培训

培训语言：英语

培训地点：中国科学院动物研究所（北京）；沧州师范学院（沧州，河北）；河北农业大学（保定，河北）。

## 5. 报名方式

报名截止时间：国际学员报名截止 2023 年 5 月 20 日，国内学员报名截止 2023 年 6 月 20 日。后期视报名情况再决定是否开放第二轮报名。

报名方式：通过会议网站（<https://belt-road-insect-diversity.casconf.cn>）提交报名信息。

会议联系人：刘宁博士（中国科学院动物研究所）

电子信箱: liun@ioz.ac.cn

主办单位: 中国科学院动物研究所

协办单位: 中国昆虫学会国际学术交流工作委员会

河北农业大学

沧州师范学院

**Training Course on Key Technologies of Insect Diversity Pattern  
Assessment and Intelligent Monitoring System in the Belt & Road  
Region**

**Notification of Enrolment (Round 1)**

**1. Introduction**

The “One Belt, One Road” is a major international cooperation initiative proposed by China and an important practical platform to promote the building of a community of human destiny. This year marks the 10th anniversary of the “One Belt, One Road” initiative and the depth and breadth of international exchange has reached a new level as the number of countries and regions joining the initiative is increasing. At the same time, maintaining the balance of biodiversity and sustainable development is an important challenge for the countries of the “Belt and Road” Initiative.

Along with the United Nations Sustainable Development Goals (SDGs), protecting, restoring, and promoting the sustainable use of terrestrial ecosystems and curbing biodiversity loss is one of the solutions to the serious challenges facing the

world today. At the beginning of the 21st century, under the advocacy of the international Convention on Biological Diversity, with the effective implementation of projects such as the Millennium Ecosystem Assessment, the Global Environment Outlook and the International Biodiversity Programme, the biodiversity monitoring and assessment system has been gradually established and improved, which has played an important role in biodiversity conservation.

Insects are the most successfully evolved group on Earth, with more than one million known extant species, accounting for over 90% of the animal kingdom and 54% of the total number of species in the entire biological world. They are an important component of the Earth's biodiversity, but also one of the most difficult taxa to monitor and assess. In this context, Professor Ming Bai of Institute of Zoology, Chinese Academy of Sciences and Professor Alfried P. Vogler of the Natural History Museum London U.K. jointly initiated the “SITE-100 International Mega-Science” Initiative, which aims to reveal global insect diversity patterns and formation mechanisms through the construction of more than 100 standard sample sites and standardized analysis processes worldwide.

The aim of this course is to promote scientific training and cooperation in the “Belt and Road” region, to develop technical standards in insect diversity pattern assessment and intelligent insect monitoring systems, and to build an alliance of insect diversity pattern assessment and intelligent monitoring systems in the Belt and Road region. Through joint efforts, we can resolve ecological conflicts that cannot be solved by a single country, and practise the global values of the community of human destiny.

## **2. Student registration**

This course will help to improve the capacity of insect diversity survey and monitoring in the “Belt and Road” countries by teaching basic theoretical knowledge and cutting-edge research techniques in insect diversity and cross-disciplines, train international talents in related fields, build a research network for young scientists.

Young scholars, especially those in the fields of Entomology, Zoology, Ecology and Biodiversity, as well as post-docs and doctoral students, who are interested in conducting research on the assessment and monitoring of insect diversity patterns in the Belt and Road countries and regions are invited to apply. Twenty free quota of applicants will be offered and participants will be selected based on their nationality and qualifications. The list of the Belt and Road countries could be found from this link ([https://eng.yidaiyilu.gov.cn/info/iList.jsp?cat\\_id=10076&cur\\_page=1](https://eng.yidaiyilu.gov.cn/info/iList.jsp?cat_id=10076&cur_page=1)).

### **3. Training content**

The training course will be hosted by Prof. Ming Bai from Institute of Zoology, Chinese Academy of Sciences. The course will be delivered in a trinity of indoor theoretical lectures, software operation, and outdoor field practice training. Well-known scholars from Kiel University from Germany, Imperial College London from U.K., the University of Hong Kong, universities or institutes from China have been invited to deliver the course. The specific training schedule will be released in the second round of notification.

### **4. Training formats**

**Training period:** 2023.10.10 - 2023.10.28

**Training form:** offline training

**Training language:** English

**Training venue:** Institute of Zoology, Chinese Academy of Sciences (Beijing); Cangzhou Normal University (Cangzhou, Hebei); Hebei Agricultural University (Baoding, Hebei).

### **5. Registration**

**Deadline for registration:** **20 May 2023** for international participants and **20 June 2023** for domestic participants. The second round of registration would be opened later depending on the availability of applications.

**Enrolment method:** Submit registration information via the link

<https://belt-road-insect-diversity.casconf.cn>.

**Conference contact:** Dr. Ning Liu (Institute of Zoology, Chinese Academy of Sciences)

**Email:** [liun@ioz.ac.cn](mailto:liun@ioz.ac.cn)

## **Organizer**

Institute of Zoology, Chinese Academy of Sciences

## **Co-organizer**

International Academic Exchange Committee of the Chinese Entomological Society

Hebei Agricultural University

Cangzhou Normal University