The International Conference on Biodiversity: Challenges and perspectives (POCinBIO 2022) is organized to provide a platform for scientists, researchers, and experts from the academic, government, and industrial sectors as well as from international organizations to share their experiences and insights on biodiversity mainstreaming across key sectors. The attendees will benefit from guest speaker talks, a peer reviewed technical program, and interesting exchanges on a variety of increasingly important topics that include, but not limited to:

Biodiversity of species in natural ecosystems

- Importance of biodiversity
- Ecosystem function
- Adaptation, plasticity and evolution of organisms
- Changes in biodiversity over time and space
- Taxonomy
- Measuring biodiversity
- Global biodiversity indices
- Genetic biodiversity
- Marine biodiversity
- Animal biodiversity
- Plant biodiversity
- Biodiversity of inland waters
- Forest Biodiversity
- Biodiversity of dry and sub-humid land ecosystems
- Biodiversity of agricultural ecosystems
- Microbial biodiversity and culture collections
- Natural collections
- Joint Species Distribution Modelling

Biodiversity loss: Impacts and Threats

- Intelligent Hazard management
- Human activities and biodiversity
- Pressures on water resources
- Intensive agriculture
- Overexploitation and overharvesting
- Deforestation
- Habitat destruction
- Extinction and speciation
- Introduced and invasive species
- Ocean acidification and the changing oceans
- Genetic pollution
- Biodiversity and human health
- Biodiversity and environment

- Biodiversity and climate change
- Renewable and non-renewable energy
- Biodiversity and food security
- Risk detection and decisions
- Population structure
- Economic valuation

Tools for managing and restoring biodiversity

- Data storage infrastructure
- Biodiversity conservation
- Advancing biodiversity conservation through international treaties
- Biodiversity conservation: awareness and outreach
- Ecosystem restoration
- Large-Scale Landscape Experiments
- Monitoring trends in biodiversity
- Cooperative approaches for biodiversity conservation
- Sustainable management of biodiversity
- Sustainable fisheries and aquaculture
- International biodiversity data standards
- Artificial intelligence for biodiversity
- Machine Learning for biodiversity
- Internet of Things (IoT) solutions for biodiversity
- Big biodiversity data
- Biodiversity data analytics
- Biodiversity information systems
- Spatio-temporal data modeling and storage for biodiversity
- GIS technologies for biodiversity research
- Remote sensing for biodiversity research
- Bioinformatics and data delivery
- Advances in statistics in relation to biodiversity
- Drone-based solutions for biodiversity
- Virtual Reality, Augmented Reality, and Mixed Reality for Biodiversity
- Technological trends in biodiversity management
- Trends in genetic diversity
- Trends in species diversity
- Trends in ecosystem diversity

Venue

Dates

- Paper Submission: **August 1, 2021**
- Acceptance Notification: **October 15, 2021**
- Final Manuscript: **December 15, 2021**
- Conference: **March 1-2, 2022**

Submission

Contributions must be original and of high quality. Submitted papers will follow peer-review procedures. Authors of outstanding papers will be invited to extend their research works for a potential publication in journal special issues with high impact factors

Further information: https://confscience.com/pocinbio/ | Email: info-pocinbio@confscience.com