CBD and DNA Barcoding

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Decision XIII/31 paragraph 6 item (g)

KEY SCIENTIFIC AND TECHNICAL NEEDS RELATED TO THE IMPLEMENTATION OF THE STRATEGIC PLAN FOR BIODIVERSITY 2011-2020 AND RELATED RESEARCH

The Conference of the Parties,

6. Encourages Parties:

(g) To support the development, with the assistance, as appropriate, of the international barcode of life network, of DNA sequence-based technology (DNA barcoding) and associated DNA barcode reference libraries for priority taxonomic groups of organisms, to promote the application of these techniques for the conservation and sustainable use of biodiversity, and to support related capacity-building activities, including relevant academic training, as appropriate, further to the Strategic Actions 3 and 4 of the capacity-building strategy for the Global Taxonomy Initiative;
Global Taxonomy Initiative (GTI)

- COP 4 (1998): Global Taxonomy Initiative in support of CBD implementation
- COP 5 (2000): GTI Coordination Mechanism (informal advisory group)
  - Vision
  - Mission
  - Goals
  - Strategic actions for 2011-2020
CBD-GTI and DNA Barcoding - Phase I (2015-2016)

- GTI Training Course on Rapid Identification on Invasive Alien Species for Achieving Aichi Target 9

- Nominations - CBD National Focal Point

- Online Training (8 weeks) - Introduction to DNA Barcoding (OpenEd-UoG)

- Hands-on Training (4 weeks) - Research Training Program (CBG-UoG)
CBD-GTI and DNA Barcoding - Phase I (2015-2016)
CBD-GTI and DNA Barcoding - Phase II (2017-2018)

- Filling capacity gap for application of DNA technologies in taxonomy - GTI trainings / workshops driven by the trained trainers
Call for applications - 30 November 2017

- **Selection criteria**
  - GTI trainees in 2015-2016 or DNA barcoding network institutions in developing countries
  - Support implementation of NBSAPs, achieving Aichi Biodiversity Targets
  - Endorsement from the CBD National Focal Point
  - Scientifically valid content
  - Sustainable follow-up plan
GTI-DNA-tech approach

- Train-the-trainer
- Learning by doing
- Minimalist lab set-up
- Basic DNA barcoding workflows
- Basic data analytics
- Intro to BOLD
- Project formulation training
- Project management training
GTI-DNA-tech 2018: 11 events

Invasive alien species  Plant pests  Endangered species  Endemic species
Taxonomy  Biodiversity conservation
GTI Forum - COP 14, Egypt 2018

- Show-case best practices to reduce taxonomic impediment
  - GTI training delivered by the trained trainers to support implementation of NBSAPs
  - Scientific knowledge, data and information on biodiversity shared and utilized
  - Advanced taxonomic research
  - Contribution to citizen science
- GTI contribution to post-2020 targets