



TRAINING COURSE
USE OF AGROBIODIVERSITY
INFORMATION IN GBIF
AND OTHER DATABASES

28, 29 and 30 June '17



PROGRAMME

SUPPORTED BY:



TRAINING COURSE: Use of Agrobiodiversity information in GBIF and other databases

Date: 28-30 June 2017

Location: Block C2, room 2.3.37, FCUL, Campo Grande, Lisbon

Workshop schedule: 9.00h - 17.30h

PROGRAMME

--- Day 1 ---

Wednesday 28 June 2017: Information analysis tools for biodiversity and environmental data in the context of agrobiodiversity

09:00 - 9:30 Presentation of the project, course and participants: *Rui Figueira, Wanda Viegas, Katia Cézon*

9:30-10:30 Introduction: *Katia Cézon*

- What is GBIF
- Benefits of data publication and supported types of datasets
- Publication workflow in GBIF and data quality

10:30 - 11:00 Coffee-break

11.00 - 11:45 Introduction (continuation): *Katia Cézon* (30 min talk; 15 discussion)

11.45 - 12:30 Seminar: *Rui Figueira* (30 min talk; 15 discussion)

Climate change and distribution of species

- review of use cases applied to conservation, invasive species, human health, agrobiodiversity
- review of main modelling approaches and tools

12:30 - 14:00 Lunch Break

14:00 - 15:30 Hands-on: *Katia Cézon*

Practical exercises with GBIF Data Portals

- quick and advanced search,
- data visualization,
- data download and import data into an excel,
- georeferenced data search,
- work with polygons, explore by area, statistics

15:30 - 16:00 Coffee-break

16:00 - 17:30 Hands-on (continuation): *Katia Cézon*

--- Day 2 ---

Thursday 29 June 2017: Agrobiodiversity information for crop breeding

09:00 - 10:30 Introduction: *Filipa Monteiro*

- the importance and components of AGB
- prominence of traits in species consumed/ produced
- importance of CWR and PGR
- communities and Ecosystems
- safeguarding Biological diversity
- environmental policies - socioeconomic considerations

10:30 - 11:00 Coffee-break

11.00 - 11:45 Seminar: *Maria Romeiras* (30 min talk; 15 discussion)

Characterizing CWR diversity in Mediterranean Region

- Inventories (taxonomic and genepool concept)
- Gathered data (Genebanks, herbaria, national programs)
- Ex situ and In situ conservation of CWR
- Link different databases to characterize the CWR diversity

11.45 - 12:30 Seminar: *Andreia Figueiredo* (30 min talk; 15 discussion)

Intra-varietal diversity: grapevine as a case-study review of use cases applied to conservation, invasive species, human health, agrobiodiversity

- wild and domesticated grapevine
- intra and interspecific variability in grapevine: where to search for information
- improving *Vitis vinifera* traits: breeding for fungal resistance as a case study

12:30 - 14:00 Lunch Break

14:00 - 15:30 Hands-on: *Maria Romeiras & Rui Figueira*

Characterizing CWR diversity: assessing different data sources quick and advanced search,

- Occurrence data (GBIF)
- Additional data of the flora of Portugal (Flora-on)
- Conservation status data (IUCN)
- Taxonomic data (PlantList)
- Mediterranean plants database (Euro+Med Plantbase)
- European catalogue for plant genetic resources (ECPGR)

15:30 - 16:00 Coffee-break

16:00 - 17:30 Hands-on: *José Carlos Franco & Rui Figueira*

Ecosystem services: Pollination

- Assess gaps of information on pollinators in Portugal
- *Plan for potential sources of pollen and/or nectar availability for pollinators*

--- Day 3 ---

Friday 30 June 2017: Benefits of wild-species biodiversity to farming activities

09:00 - 10:30 Introduction: *José Carlos Franco*

- indirect use
- regulation services
- biological control
- ecological infrastructure
- invasive species
- greening

10:30 - 11:00 Coffee-break

11.00 - 11:45 Seminar: *José Lima Santos* (30 min talk; 15 discussion)

Biodiversity management in farming systems

11.45 - 12:30 Seminar: *Miguel Bugalho* (30 min talk; 15 discussion)

Certification and sustainable forest management

- areas of high conservation value
- biodiversity and ecosystem services
- identification of priority forest conservation areas
- payment for forest ecosystem services
- webgis tool example for the determination of priority conservation areas

12:30 - 14:00 Lunch Break

14:00 - 15:30 Hands-on: *Vânia Proença*

Biodiversity indicators:

- Data extraction: define research question and criteria for data extraction
- Rank abundance curves
- Quality assessment of sampling coverage
- Application to biodiversity indicators

15:30 - 16:00 Coffee-break

16:00 - 17:30 Closing: *Rui Figueira, Katia Cézon, Wanda Viegas*
Evaluation of the course, discussion and certification