





The EURL "insects and mites" reference collection

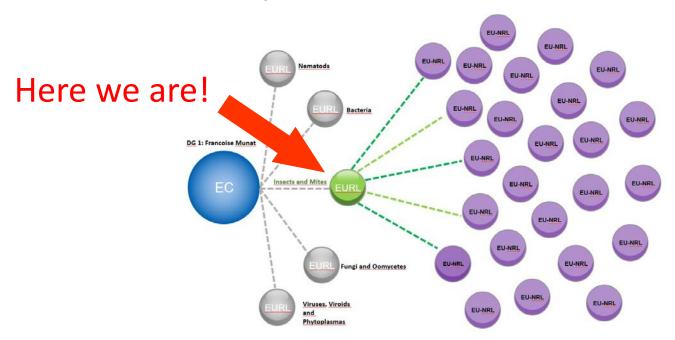
Content, usage and management

AG CBGP/plateau collection

22nd March 2024 – Montpellie<u>r (France)</u>

Reminder

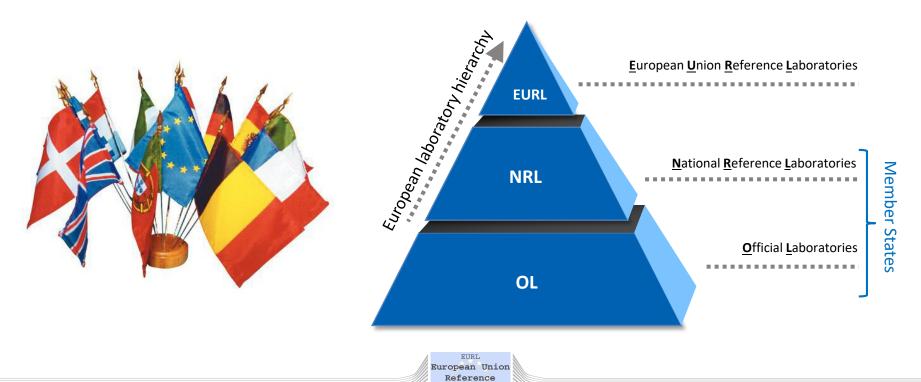
- EURL: European Union Reference Laboratory
- Mandate shared by Anses (France) & Ages (Austria)
- Main mission: assist, coordinate and harmonize the action of the 26 NRLs in European Union





Reminder

- NRL: National Reference Laboratory
- Designated by each member state (delegation to DK by SW)
- Main mission: implement the EU regulation for Quarantine Organisms (EU 2019/2072 + amendments)



Laboratory for INSECTS AND

Reminder

- EU 2019/2072 lists regulated organisms:
 - 244 insects and mites in annex II (Quarantine Organisms)
 - Of which 16 are priority QO
 - + 18 in annex III (protected zone Quarantine Pests)
 - + 22 in annex IV (regulated not Quarantine Pests)
- Reporting of these QO in EU area has major economic and sanitary consequences: relevant official identification is critical
- EURL builds a reference collection as a tool for NRLs





European Union Reference Laboratory

for Insects & Mites

Reference collection

Current content

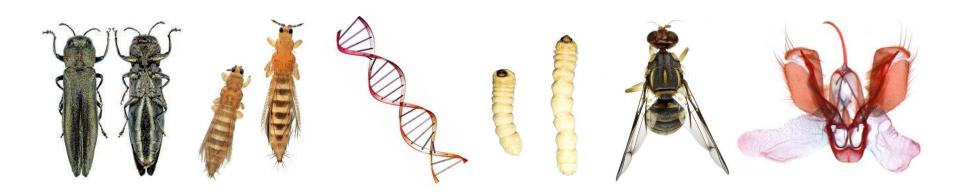






- About 9400 individuals or individual parts of 110 taxa
 (QO + taxonomically or morphologically close relatives)
- Mostly in Montpellier, some in Vienna
- Ethanol, slides, pin-mounted, dehydrated or frozen (DNA)
- 632 collection objects sorted in three levels:
 - L1: primary references, no loan to NRLs
 - L2: for loans to NRLs as reference specimens
 - L3: for other FURL activities
- L1 belongs to EU, L2 and L3 are lent to EURL collection by ANSES/AGES

Usage (2020-2024)



- 39 loans to NRLs and partner institutions
- 15 Proficiency Tests (assessment of NRL abilities for morphological or molecular identification)
- 6 validation studies (crash-tests of official protocols)
- 8 training sessions



- Initially "databased" on Excel
- Currently being transferred to Specify 7
- Legal issues (solved): US software referencing specimens in France/Austria and data owned by EU and housed on a German server
- Technical issues (about solved): design database and input interface to fit EURL requirements









Founding Partners:



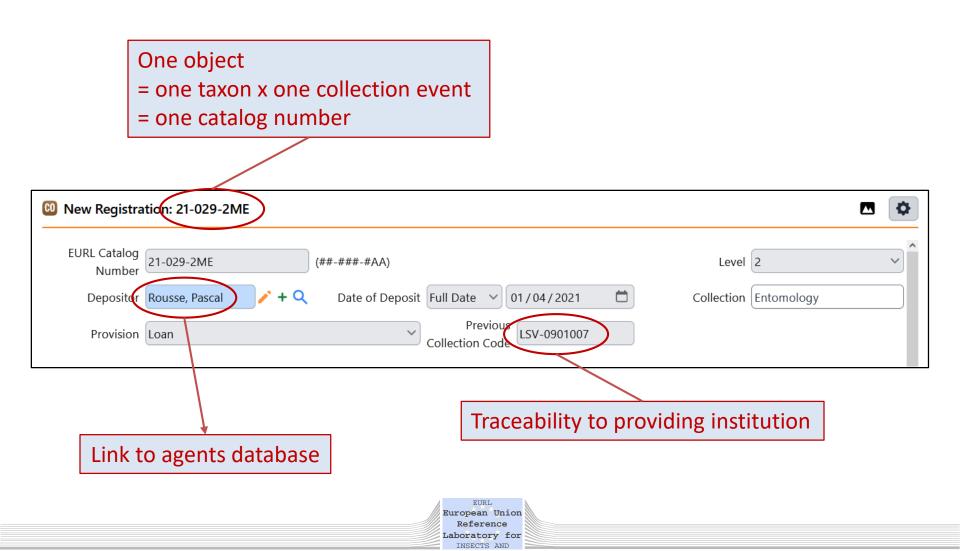




- Specifically designed for collection management
- Used by numerous Museums & universities
- External housing with technical support
- Highly customizable
- Link individuals to attachment (.pdf, .fas, .jpg...) and output files (loan sheets)

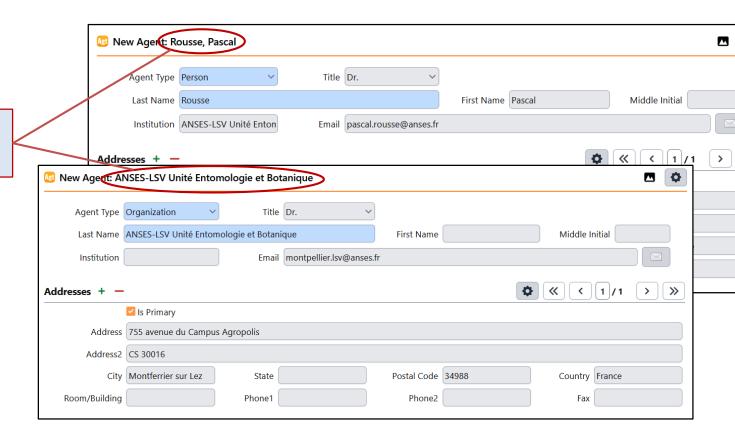


1. Registration of new collection object



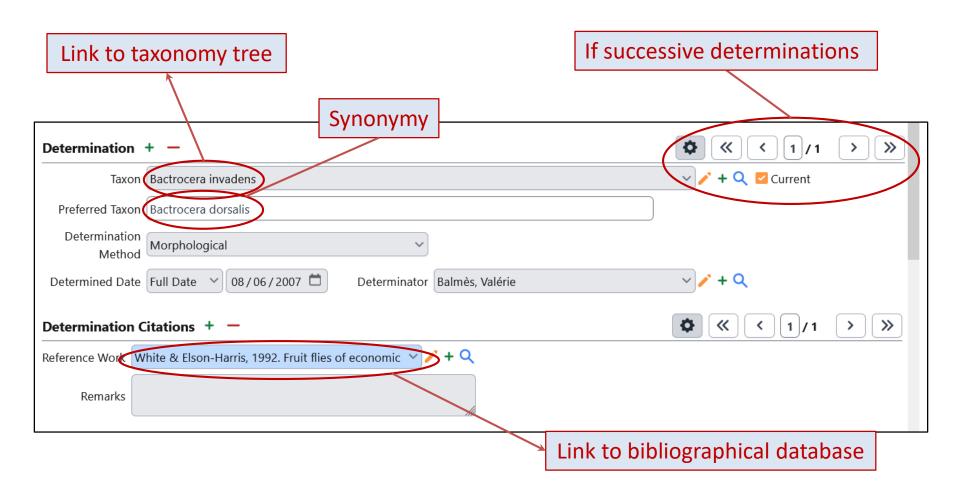
The agents database

Registering persons & organizations



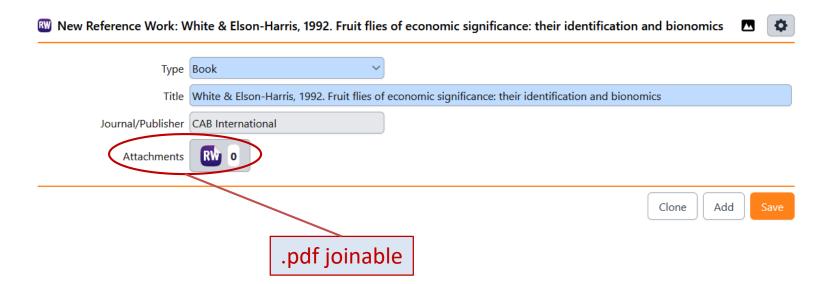


2. Taxonomy



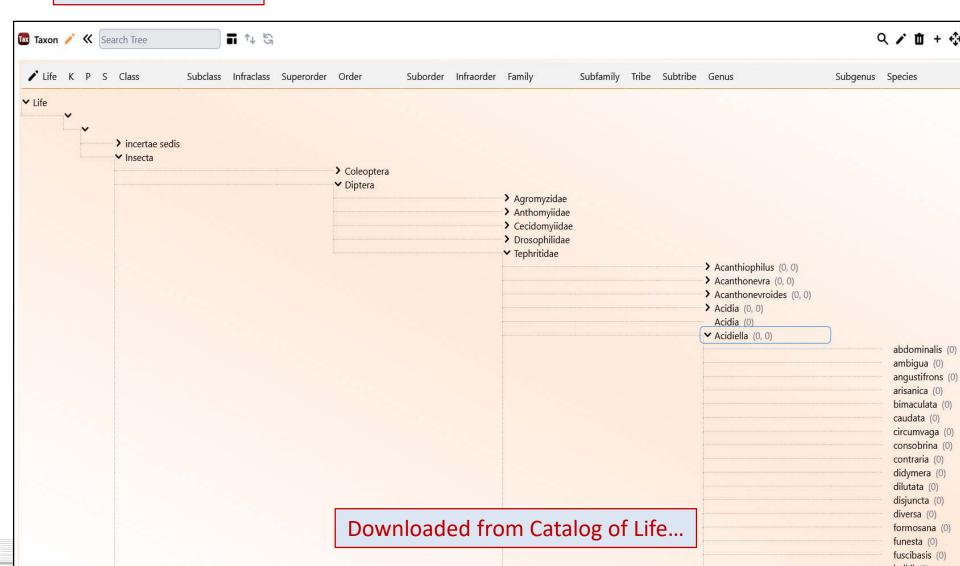


The bibliographical database

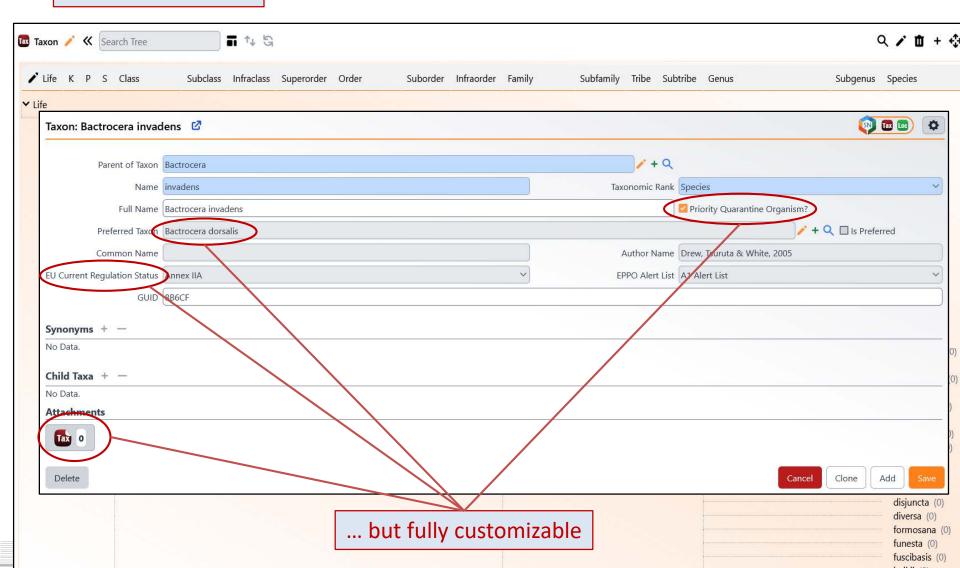


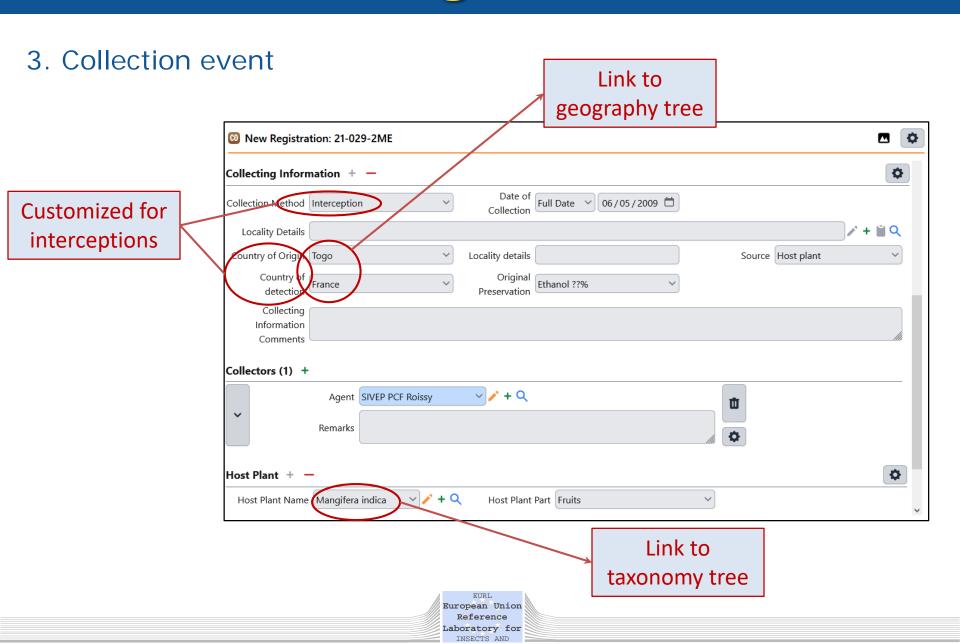


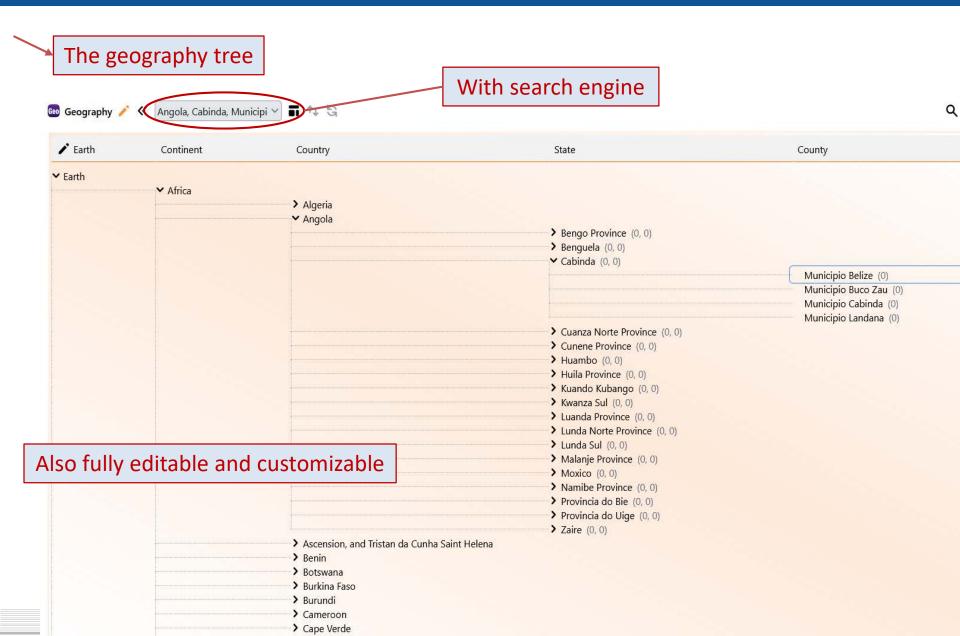
The taxonomy tree

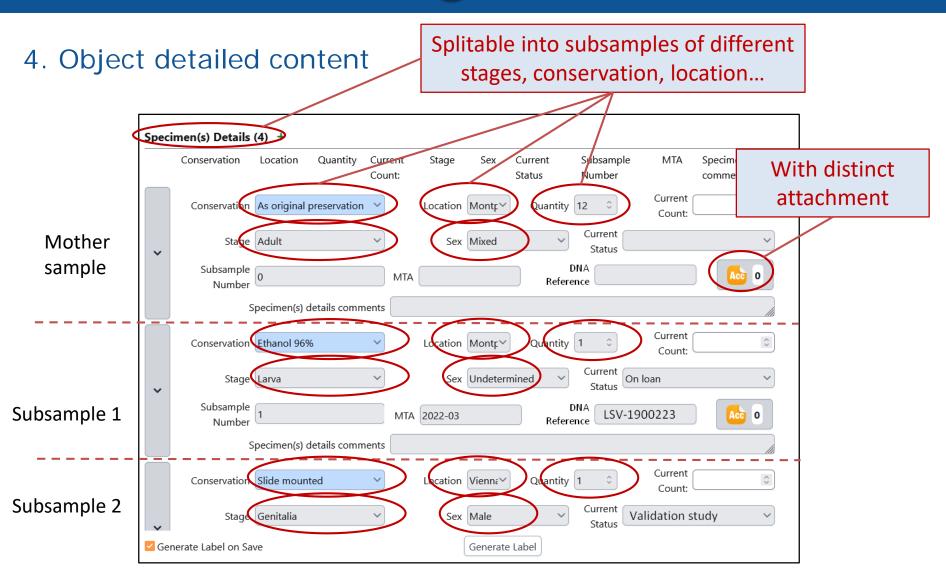


The taxonomy tree





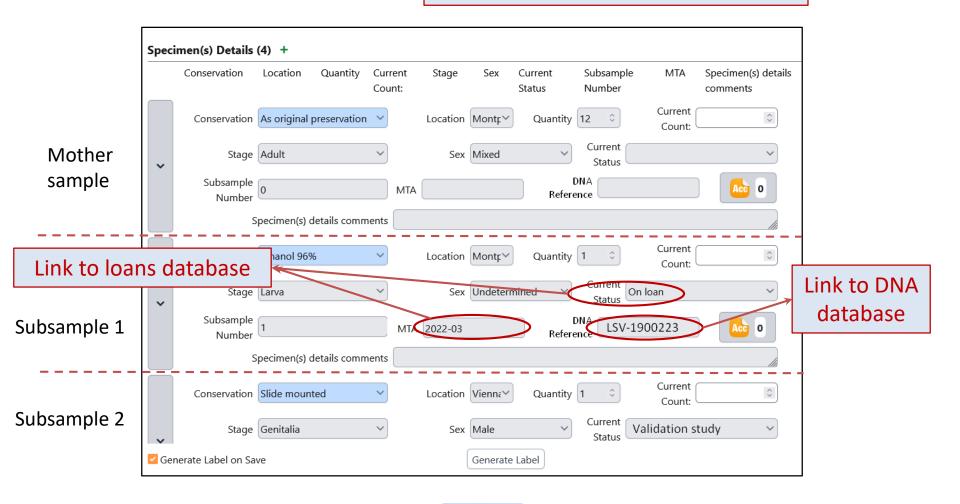




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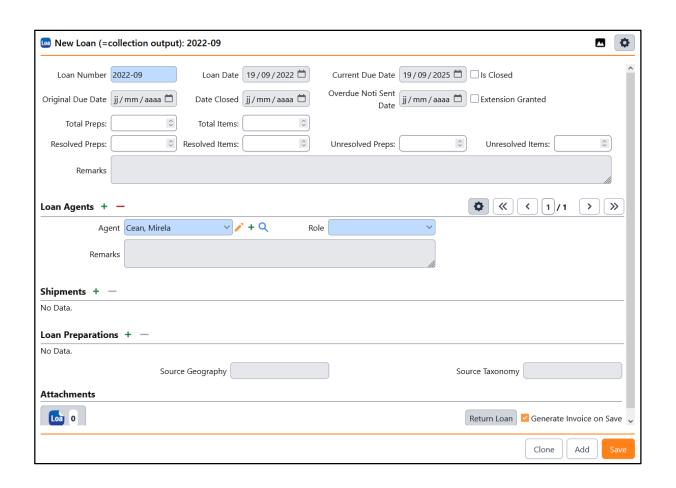
4. Object detailed content

Splitable into subsamples of different stages, conservation, location...



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The loans database

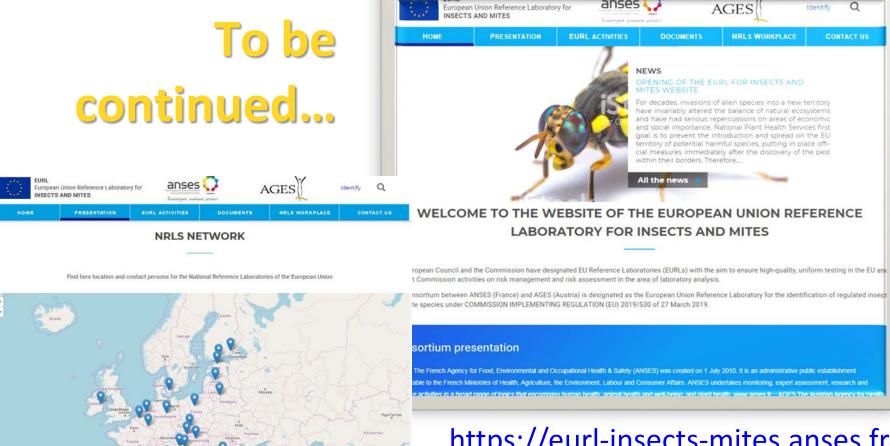




The DNA database







https://eurl-insects-mites.anses.fr

Thanks for your attention!