



OneBAT Training on Bat Sanitary Surveillance

20-21 May 2026 | Padova (Italy)

Bat capture & sampling

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Bat capture & sampling

- Capture
- Sampling
- Field lab
- Sample storage



Bat capture

Mist-net

- Large surface
- Not always quick to take out bats
- Some bats groups can sense and avoid nets



Bat capture

Harp-trap

- Strings
- Bag under, bats fall in
- Bats can be taken out easily
- Even with sensitive sonar
- Smaller surface compared to mist-nets



Bat capture

Aluminium or carbon

Can be halved





Bat capture



Bat capture



Bat capture



Bat capture



Bat capture



Bat sampling

- Identification
- Measurements (forearm, weight)
- Faeces
- Oral swab
- Anal swab
- Ectoparasites
- Blood/serum
- (Organs)



Bat sampling

- Wing biopsy
- Dead bats
- Ultrasound
- Photographs



Bat sampling



Bat sampling



Bat sampling



Bat sampling

Gently

Take care of the teeth



Bat sampling



Bat sampling



Bat sampling

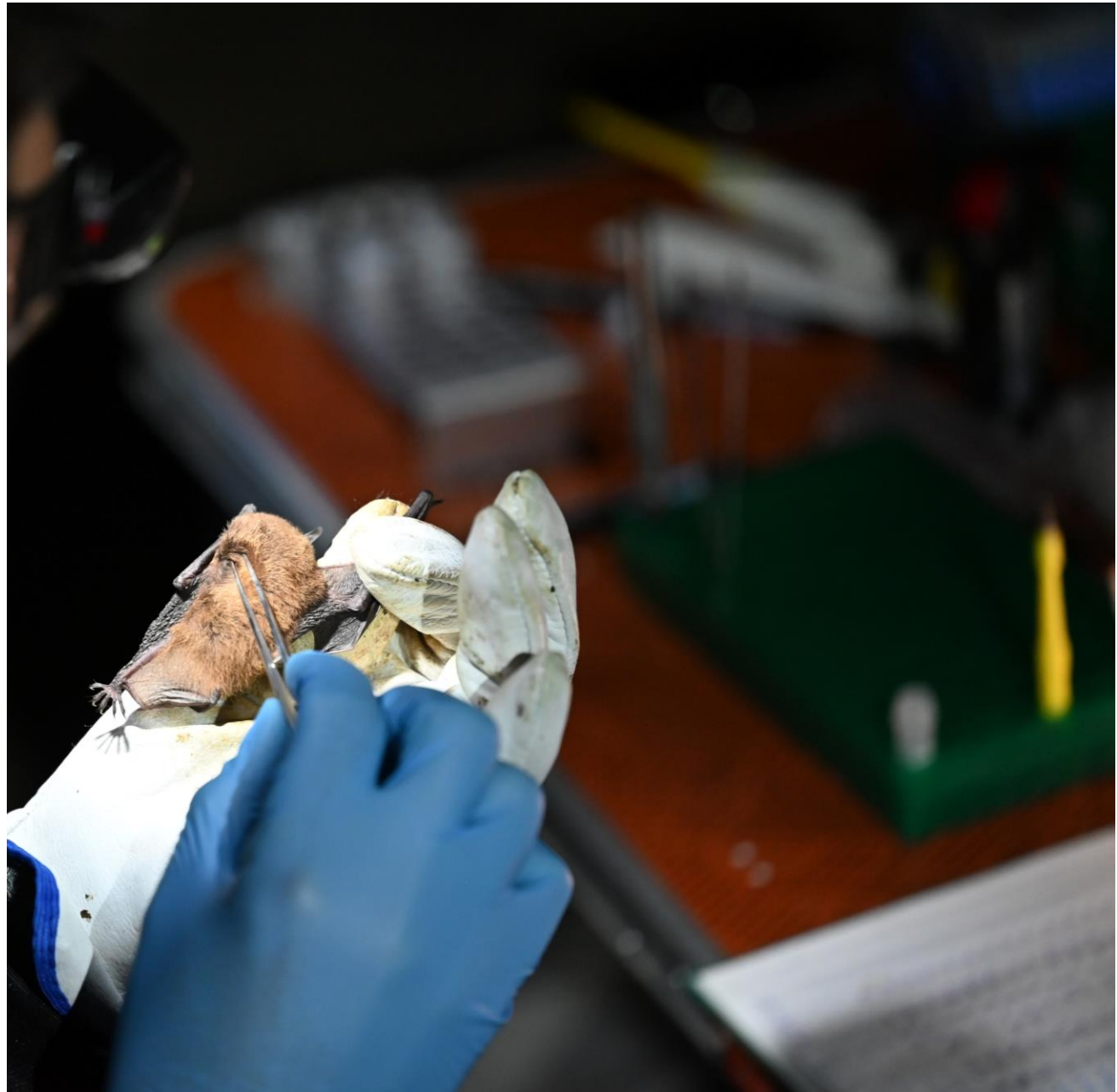


Bat sampling

Ectoparasite collection

Can be time consuming if there
are bat flies

Trade-off



Bat sampling



Bat sampling

Blood sampling

Minivette

Usually small volume (<50 μ l)

Temperature of the bats

Blood clotting creme



Bat sampling



Bat sampling



Bat sampling



Bat sampling



Field laboratory

Serum separation

RT-qPCR

Allows resampling and/or rapid investigation of epidemics





Bat sampling

Amplicon-based Nanopore sequencing
of viral genomes – on the field

- Lloviu
- Nipah
- Canine Distemper Virus
- etc

Storage



Storage





Thanks for your attention!



www.onebat.eu



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