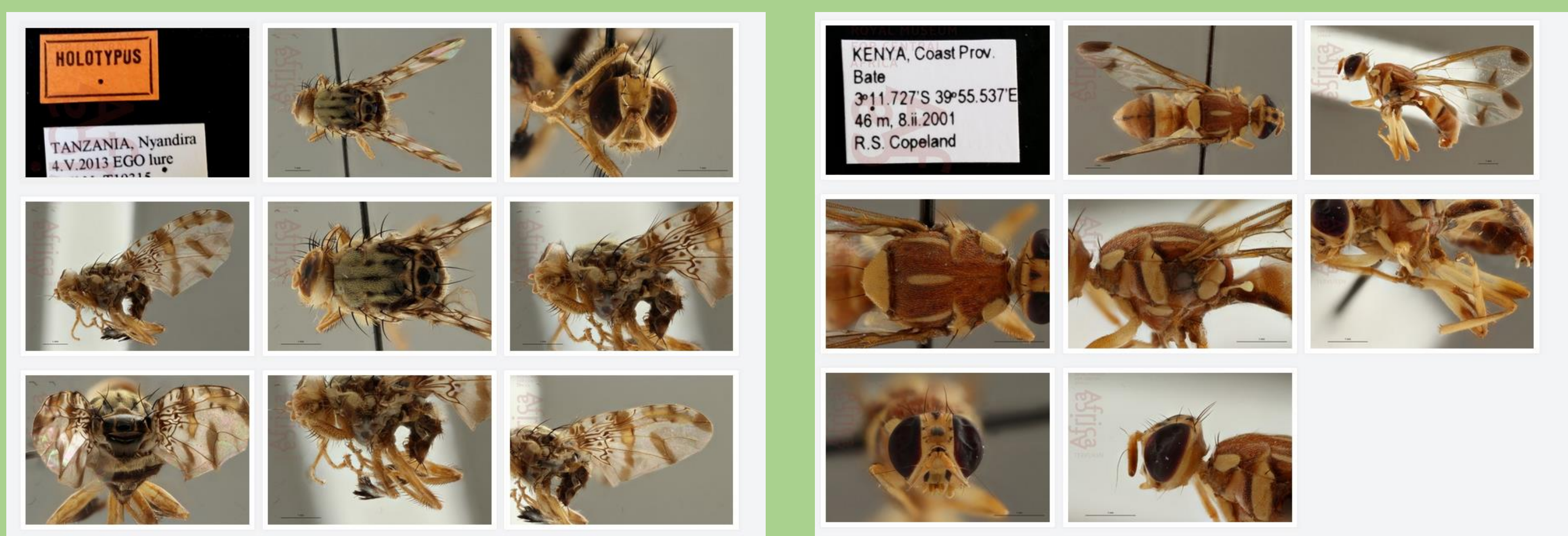


InsectMOoD Insect Museum Open -omic Database

Contact person: Massimiliano Virgilio

BUILDING THE GENOMIC COLLECTIONS

InsectMOoD is a BELSPO funded BRAIN-be 2.0 project which promotes the genotyping of Museum vouchers as a routine procedure to preserve and valorize the genomic information associated to collection specimens.



The project is coordinated by the Joint Experimental Molecular Unit (JEMU) and is providing a test-case for the creation of insect genomic collections as a complement of the already in place physical and digital collections.



Lore Esselens, InsectMOoD molecular biologist

A COST-EFFECTIVE APPROACH

We are building an open-access repository of genomic resources represented by Whole Genome Sequencing Data (WGS, 10x) from the RMCA collections of Syrphidae and Tephritidae (Diptera). InsectMOoD specifically targets samples with suboptimal DNA quality and quantity, but which can still be processed using cost-effective, customized protocols for genomic library preparation.



THE BIG PICTURE

All metadata (including digital images) of the “genomic vouchers” are being linked to GBIF and made available to the scientific community. In line and in synergy with the objectives of SYNTHESYS+, an EU Project by a consortium of European Natural History Institutions. This test case will allow developing a decision map to be used for the large scale and cost-effective genotyping of insect Museum collections.

AN ONLINE DATABASE RELYING ON DARWIN

thanks to the collaboration with the ICT of RMCA, Whole Genome Sequencing data from more than 400 insect vouchers have been linked to the corresponding metadata and digital images and are currently being uploaded in BEBIF/GBIF through the DARWIN platform.

