

Name	Counterpart	Title
Damayanti Buchori, Rosichon Ubaidillah (LIPI), Amanda Mawan, Rizky Nazarreta	Z02	Barcoding and photographic documentation of Ant (<i>Formicinae</i>) and Springtail (Collembola) collections from EFForTS core plots.

This ABS research project targeted parts of the canopy arthropod collection of Z02 (see page 33). Specifically, the objectives of this study were: (1) the establishment of barcodes for ants and springtails from the Z02 collection, (2) photographic documentation of the Z02 ant collection and (3) the merging of data from Z02 and B01 collections.

Amanda Mawan and Rizky Nazarreta came to work on this ABS project at facilities of the University of Göttingen from April until mid-July 2015. Regarding aim (1): DNA was extracted from about half of the 1200 ant specimen transferred to Göttingen, while roughly the other half was set aside for mounting and photography. For Collembola, prepared first barcodes of combined sequences of mitochondrial and ribosomal genes for 5 abundant Collembolan morphospecies. Molecular biological analyses of ants and springtails is currently on halt due to shortages in manpower. Regarding aim (2): Almost two thirds of the ant collection transferred to Göttingen have so far been mounted and photographed (Fig. 1–3), and both mounting and photographic documentation are still ongoing. Regarding aim (3): The merging of data from Z02 and B01 ant collections has not been achieved during this ABS measure. However, the re-identification of ant samples from B01 and the subsequent merging of datasets in a common database is currently in progress as a Bachelor thesis at the University of Göttingen. We expect to be able to merge and jointly analyze datasets of Z02, B01 and B09 ant collections until end 2016.

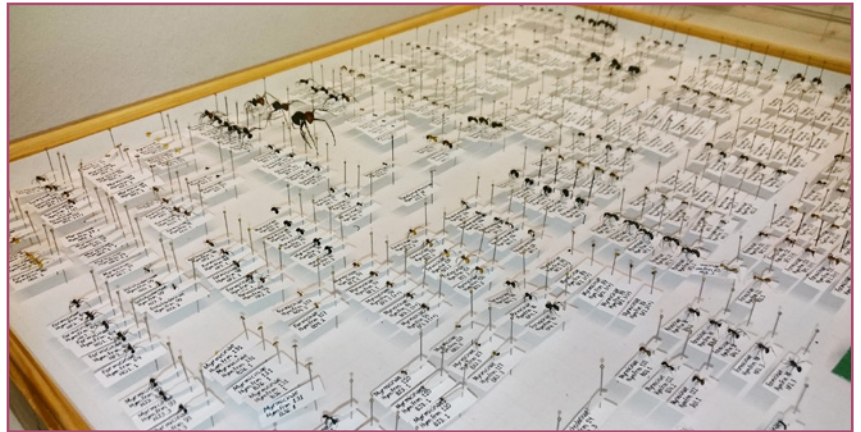


Figure 1. Mounted canopy ant specimen collection at the University of Göttingen.



Figure 2. *Vollenhovia* sp. (Formicidae:Myrmicinae) in lateral view. Note that due to the small size of the ant specimen, it had to be mounted directly on the tip of a needle.



Figure 3. *Anochetus graeffei* (Formicidae:Ponerinae) in lateral view. Note the large trap-jaw mandibles and the visible sting of this predatory ant.