



DNA barcoding Finnish bees

Juho Paukkunen

Finnish Museum of Natural History
LUOMUS

University of Helsinki

Overview

- DNA barcoding of Finnish bees started in 2011.
- Barcodes have been produced via FinBOL and the Finnish Museum of Natural History (Genomic Resources Collection).
- So far more than 900 sequences are available for 228 species.
- Over 500 bp sequences are available for 730 specimens and 223 species (94% of the 239 bee species recorded in Finland).
- Data available at BOLD (project ACUFI) (197 species) and GenBank (LUOMUS GRC) (150 species).

Some results

- BIN sharing (13 species):
Sphecodes ferruginatus /
hyalinatus, *Hylaeus pfankuchi* /
rinki, *Stelis minima* / *minuta*,
Nomada alboguttata / *baccata*,
Nomada ferruginata /
leucophthalma / *panzeri*, *Nomada*
roberjeotiana / *tormentillae*.
- BIN divergence (4 species):
Dasypoda hirtipes (3 BINs),
Andrena fulvida (2 BINs), *Heriades*
truncorum (2 BINs), *Megachile*
willughbiella (2 BINs).

