



WG-6 Estimation of breeding values

Sreten Andonov
sandonov@fzhn.ukim.edu.mk

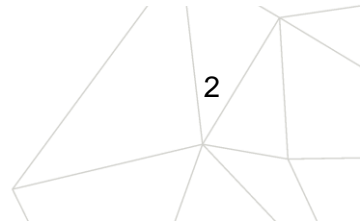
Meetings - online

Kick of meeting, Dec 2013

Breeding in BSF, Marco Meneguz, Feb. 2024

Breeding in mealworm, Kety Paul, Mar. 2024

Breeding and EBV in honeybee, Jernej Bubnič/Tristan Kistler, Apr, 2024



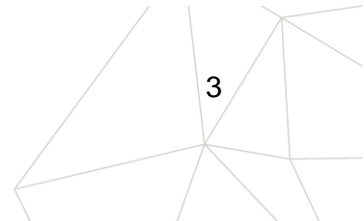
4 presentations:

Laura Hansen - House fly breeding values estimation

Andreas Hoppe - Honeybee specificities in Breeding values estimation

Sreten Andonov - BLUP in honeybee

Richard Bernstein - The new concept – Genomic selection in honeybees



Lessons learned

Specificities in insect biology is a challenge

Trait definition, phenotypes and relationship records are challenges

Progress in other WGs =(WG4 and WG5) are essential

A non-uniform approach in EBV, more complexed than supposed

Experience/approach applied in other species can be beneficial

Different current status in EBVs in different species (BSF, mealworms, house flies, crickets and honey bees)

Next steps

1. White paper describing EBV in insects (initial steps autumn 2024)
2. Software for accounting honey bee relationships with various options to become an integrated part of BLUPf90 package
 - Richard Bernstein made software adaptations and prepare tutorials
 - Initial discussions and provisional setup with UGA group

