Interested in a project in bee genomics?

Matthew Webster's lab at Uppsala University uses next generation sequencing to study evolution, population genetics, functional genomics and conservation of biodiversity in bees. We are currently mainly funded by Vetenskaprådet, Formas and Naturvårdsverket.

A number of possible projects for master's students are available which would be suitable for students interested in bioinformatics, lab work, and/or field work. Some potential projects are:

1) Analysis of intraspecific genetic variation in common and threatened wild bee species to infer historical changes in population size (see link).

2) Identification of genes that control sex determination in a wild bee species (see link).

3) Control and evolution of recombination rate in social insects.

4) Description of a new cryptic bumble bee species discovered by the group in the Rocky Mountains USA.

5) Development of methods to detect somatic mutations using next-generation sequencing in order to understand ageing though insect models.

We are very interested to hear from motivated students interested in a project on these topics.

For more details, please contact matthew.webster@imbim.uu.se