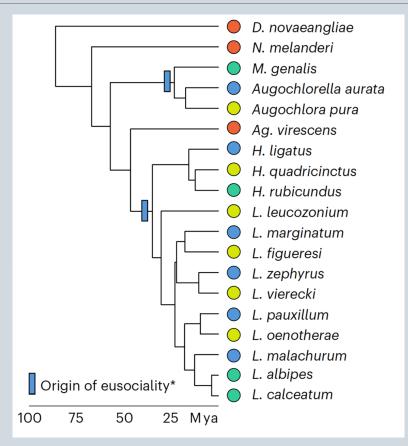
# Pipeline Example

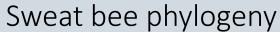
ANDREW WEBB

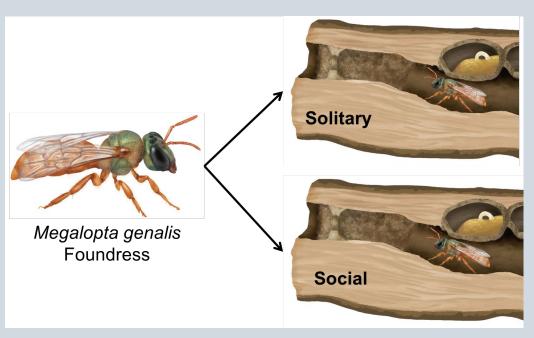


Sociality and Population structure of Megalopta genalis

### Sociality of Megalopta genalis

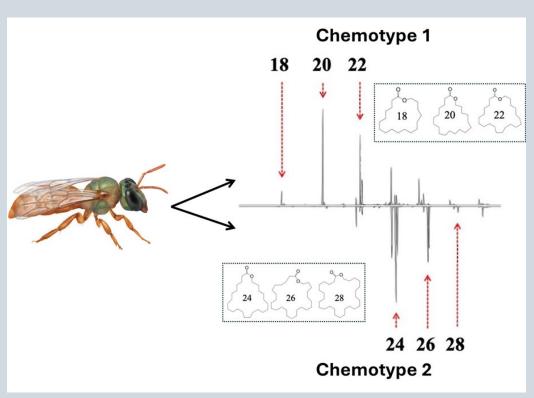




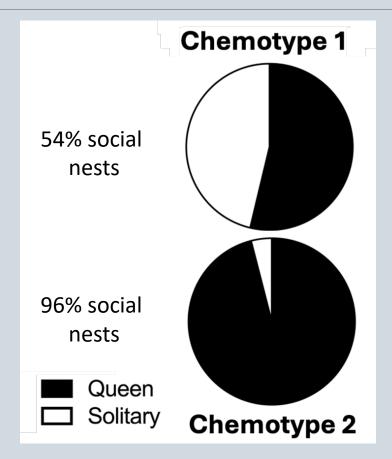


Nest Establishment

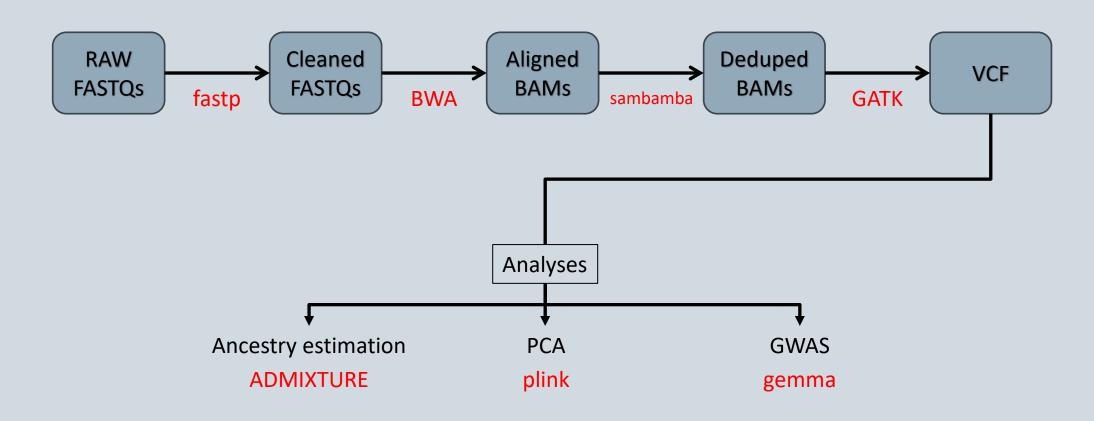
### Sociality of Megalopta genalis



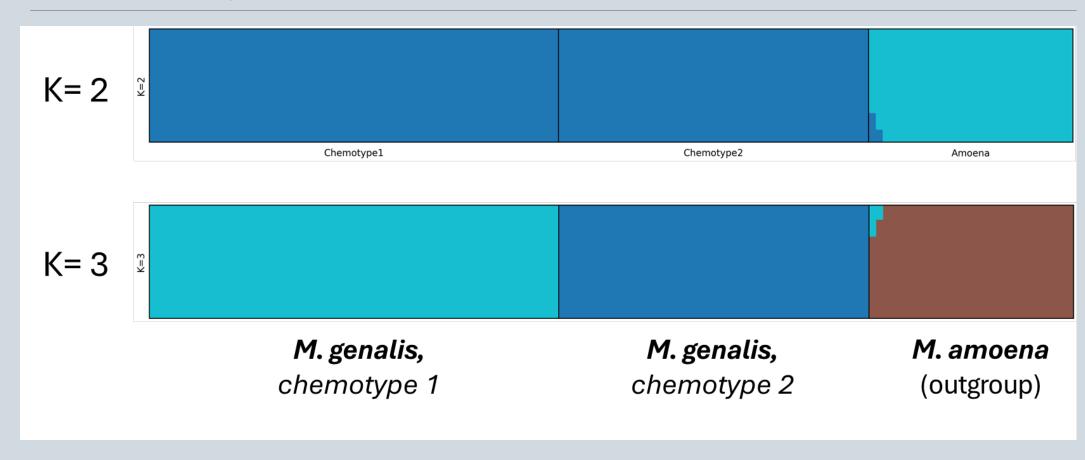
GC-MS Chromatograms of macrocyclic lactones



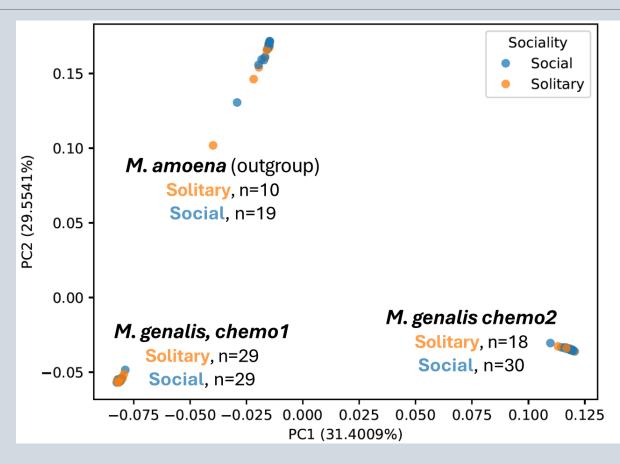
# Our pipeline



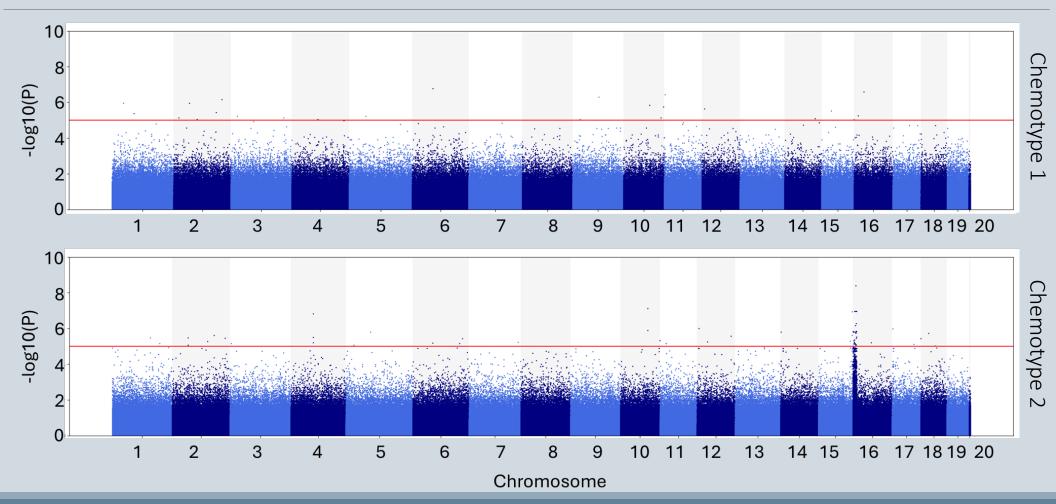
## Ancestry estimation



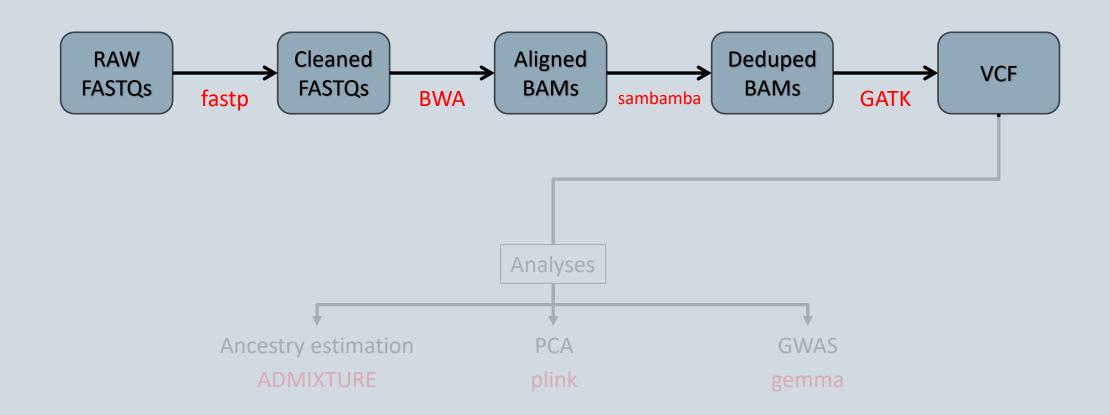
## Principal Component Analysis (PCA)



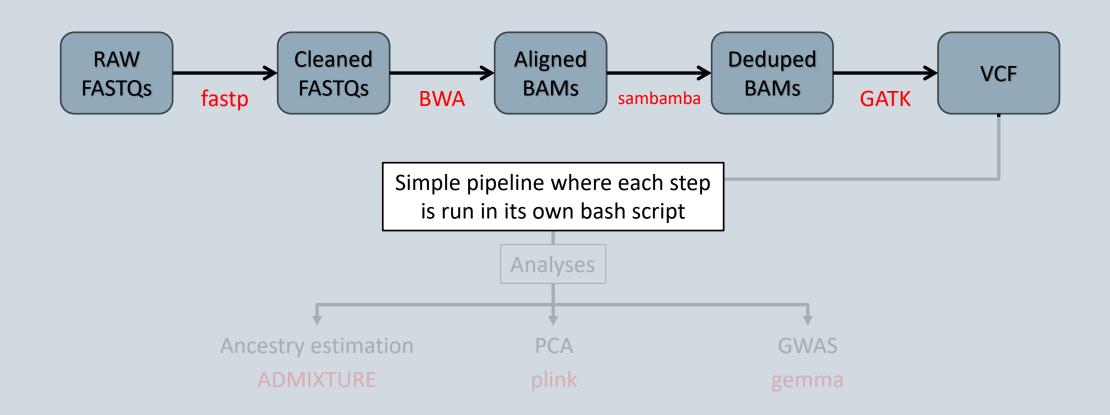
## Genome-Wide Association Study (GWAS)



#### Cluster demo



#### Cluster demo



#### **SLURM**

```
#!/bin/bash
#SBATCH --job-name=myserial-job
                                                # Name of the job
#SBATCH --output=myserial-job.%j.out
                                                # Name of the output file (with jobID %j)
#SBATCH --error=myserial-job.%j.err
                                                # Name of the error file (with jobID %j)
#SBATCH --nodes=1
                                                # Node count
                                                # Number of tasks across all nodes
#SBATCH --ntasks=1
#SBATCH --cpus-per-task=1
                                                # Cores per task (>1 if multi-threaded tasks)
                                                # Memory per core (4G is default)
#SBATCH --mem-per-cpu=4G
#SBATCH --time=00:01:00
                                                # Run time limit (HH:MM:SS)
#SBATCH --mail-type=all
                                                # Email on job start, end, and fault
#SBATCH --mail-user=<YourNetID>@princeton.edu
                                                # Email address
echo 'Hello world!'
```