**Supplementary Table 1 - Mahalanobis Distances.** Genetic distance of the samples to each pure subspecies of *A. mellifera* (*A. m. carnica, A. m. caucasica, A. m. iberiensis, A. m. intermissa, A. m. ligustica, A. m. mellifera* and *A. m. scutellata*). \* indicates the smallest genetic distances.

|  |  |  |
| --- | --- | --- |
| Bees Subespecies  | 07/03/2020 Sampling | 15/12/2020 Sampling |
|  | P18 | P19 | V16 | V151 | V152 | V16A | P19 | V1 | V16 | V16B |
| *A. m. carnica* | 7,052  | 6,186  | 7,092  | 5,470  | 7,403  | 6,484 | 4,946\* | 6,747 | 5,413\* | 6,267\* |
| *A. m. caucasica* | 5,558\* | 5,659\* | 5,564\* | 4,967\* | 6,152\* | 6,064\* | 5,414\* | 5,644\* | 6,609 | 5,871\* |
| *A. m. iberiensis* | 7,037 | 6,881  | 6,920 | 6,279 | 7,082 | 6,676 | 6,926 | 6,341 | 7,592 | 7,234 |
| *A. m intermissa* | 5,018\* | 5,925\* | 6,027\* | 4,461\* | 6,177\* | 6,029\* | 5,546\* | 6,065\* | 6,725 | 6,420\* |
| *A. m. ligustica* | 6,955 | 5,979\* | 6,895 | 5,476 | 6,976 | 6,691 | 5,179\* | 6,431 | 5,973\* | 6,456\* |
| *A. m. mellifera* | 5,896\* | 5,918\* | 6,519\* | 5,300 | 7,158 | 5,780\* | 6,174 | 6,353 | 6,851 | 6,775 |
| *A. m. scutellata* | 5,321\* | 6,322 | 7,109 | 4,596\* | 6,230\* | 6,824 | 6,063 | 6,382 | 7,496 | 6,816 |