

**Table S4, Supporting information** Prior and posterior parameter distributions for ABCtoolbox analyses together with associated marginal densities and the parameter called “obsPvalues” which reflects the fit of the estimated model to observed data (if very low, the model used to generate simulations is likely inadequate). Graphical representations of the scenarios are given in Figure S5, Supporting information.

	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563
ThetaN mode (posterior HDI95)	1.14782 (0.35206- 1.5604)	1.35541 (0.66485- 1.55608)	1.14782 (0.31379- 1.55608)	1.35541 (0.36483- 1.55608)	1,07862 (0.29670- 1.54623)	1,12014 (0.29670- 1.54713)	0,995586 (0.29670- 1.54731)	1,47996 (0.29670- 1.55608)	1,46612 (0.40623- 1.55608)	0.303617 (0.33560- 1.55608)	0.954067 (0.27262- 1.45418)	1.47996 (0.37571- 7-1.5284)	1.30005 (0.36165- 1.55608)

all times are given in numbers of years/generations,

\* : this model needed to add a time for migration to stop - prior was 20-130 000 and posterior with a mode = 28888.9 (HDI95=21667-12311),

**migration matrice 0** allows no migration; **migration matrice 1** allows migration between Alps-Carpathians and Carpathians-North;

**migration matrice 2** allows migration between Alps-Carpathians, Carpathians-North and North-Alps; **migration matrice 3** allows migration between Alps-Carpathians and North-Alps; **migration matrice 4** allows migration between Alps-Carpathians; **migration matrice 5** allows migration between Alps-North and Carpathians-North

**TDecN**: Time of northern population size decrease, **TDecCarp**: Time of Carpathian population size decrease, **TExpN**: time of northern population growth, **TExpCarp**: time of Carpathian population growth,

**TDivOE**: Divergence time of population from the Alps and the Carpathians,

**TDivNS**: Divergence time of population from the North and the Carpathians,

**Tmigr** : timing of gene flow following the migration matrix given for each scenario,

**gmigr**: intensity of gene flow when existing,

**ThetaA**, **ThetaC**, **ThetaN**: nucleotide diversity given for the COI marker in the Alpine, the Carpathian and the northern populations, respectively.