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Authentication of honey based on a DNA method to differentiate *Apis mellifera* subspecies: Application to Sicilian honey bee (*A. m. siciliana*) and Iberian honey bee (*A. m. iberiensis*) honeys

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Authentication of honey based on a DNA method to differentiate Apis mellifera subspecies: 1 application to Sicilian honey bee (A. m. siciliana) and Iberian honey bee (A. m. iberiensis) 2 honeys 3 4 Valerio Joe Utzeri<sup>a</sup>, Anisa Ribani<sup>a</sup>, Luca Fontanesi<sup>a,\*</sup> 5 6 <sup>a</sup> Department of Agricultural and Food Sciences (DISTAL), Division of Animal Sciences, 7 8 University of Bologna, Viale Fanin 46, 40127 Bologna, Italy 9 10 \* Corresponding author: Tel: +39 051 2096535 11 Email: <u>luca.fontanesi@unibo.it</u> (L. Fontanesi) 12 13 Running title 14 Entomological authentication of honey by DNA analysis 15

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