Supplementary material

From Environment to Hive: Plasticizer and bisphenols contamination in Algerian honey

Federica Litrenta[1†], Nadra Rechidi-Sidhoum[2†], Angela Giorgia Potortì[1], Ambrogina Albergamo[1*], Vincenzo Lo Turco[1], Roberto Sturniolo[1], Meki Boutaiba Benklaouz[3], Qada Benameur[4], Giuseppa Di Bella[1]

[1] Department of Biomedical, Dental and Morphological and Functional Imaging Sciences (BIOMORF), University of Messina, 98168 Messina, Italy; felitrenta@unime.it (F.L.); angela.potorti@unime.it (A.G.P.); aalbergamo@unime.it (A.A.); vloturco@unime.it (V.L.T.) Roberto sturniolo (R.S.); gdibella@unime.it (G.D.B.).

[2] Département des Sciences Alimentaires, Faculté des Sciences de la Nature et de la Vie, Université Abdelhamid Ibn Badis de Mostaganem, Algeria; nadra.sidhoum@univ-mosta.dz (N.R.S.).

[3] Laboratory of Hygiene and Animal Pathology, Veterinary Sciences Institute, University of Tiaret, 14000 Tiaret, Algeria; meki1327@yahoo.com (M.B.B.).

[4] Département d'Agronomie, Faculté des Sciences de la Nature et de la Vie, Université Abdelhamid Ibn Badis de Mostaganem, Algeria; qada.benameur@univ-mosta.dz (Q.B.)

[5] Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (CHIBIOFARAM), University of Messina, 98166, Messina, Italy; irene.spano@studenti.unime.it (I.M.S.); felitrenta@unime.it (F.L.).

† The authors contribute equally.

* Correspondence: aalbergamo@unime.it (A.A.).

Figure S1. Representative GC-MS (TIC) chromatogram of phthalate and non-phthalate plasticizers (PAEs and NPPs) revealed in Algerian honey samples (i.e, HS-14, multifloral honeys from Djelfa). In the chromatogram, PAEs, such as DMP, DEP, DBP and DEHP, and NPPs, such as DEHT and DEA, are indicated along with the used internal standards (DBP-d4 and DEHP-d4) and their retention times (RT).

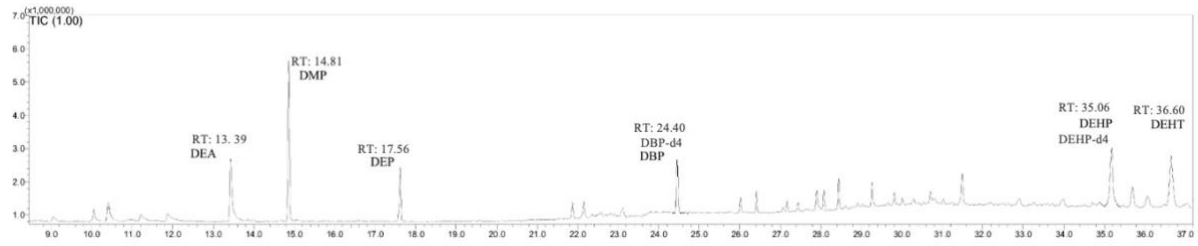


Figure S2. Representative HPLC-MS/MS (TIC) chromatogram of bisphenols (BPs) revealed in Algerian honey samples (i.e., HS-23, multifloral honeys from Mostaganem). In the chromatogram, BPA, its internal standard ($^{13}C_{12}$-BPA), and their retention times are indicated.

