

**Table S1.** List reporting species or genus name, name code and the mean value ( $\pm$ s.e.) of the total abundance of each species identified in the soils collected under four vegetation covers: herbaceous (H), holm oak (HO), black locust (BL) and tree of heaven (TH) at the Vesuvius National Park.

Name	Name code	H	HO	BL	TH
<i>Anurida tullbergi</i> (Schött, 1891)	<i>Anu_tul</i>	0	0.08 ( $\pm$ 0.08)	0.11 ( $\pm$ 0.11)	1.11 ( $\pm$ 0.61)
<i>Brachystomella parvula</i> (Schäffer, 1896)	<i>Bra_par</i>	0.28 ( $\pm$ 0.28)	0.08 ( $\pm$ 0.08)	0.44 ( $\pm$ 0.33)	1 ( $\pm$ 0.33)
<i>Entomobrya multifasciata</i> (Tullberg, 1871)	<i>Ent_mul</i>	0	0.08 ( $\pm$ 0.08)	0	0
<i>Folsomides angularis</i> (Axelson, 1905)	<i>Fol_ang</i>	0	0	0	0.33 ( $\pm$ 0.33)
<i>Hemistoma thermophila</i> (Axelson, 1900)	<i>Hem_the</i>	0	0.08 ( $\pm$ 0.08)	0.22 ( $\pm$ 0.22)	0.44 ( $\pm$ 0.24)
<i>Lepidocyrtus lignorum</i> (Bourlet, 1839)	<i>Lep_lig</i>	0	0.51 ( $\pm$ 0.19)	0	0
<i>Mesaphorura sp.</i> (Borner, 1901)	<i>Mes_x</i>	0	0.41 ( $\pm$ 0.19)	0.11 ( $\pm$ 0.11)	0
<i>Micranurida pygmaea</i> (Borner, 1901)	<i>Micr_pig</i>	0	0	0	0.55 ( $\pm$ 0.44)
<i>Micraphorura sp.</i> (Bagnall, 1949)	<i>Micr_x</i>	0	0.25 ( $\pm$ 0.17)	0	0
<i>Mucrosomia garretti</i> (Bagnall, 1949)	<i>Muc_gar</i>	0.28 ( $\pm$ 0.28)	0	0	0
<i>Neanura muscorum</i> (MacGillivray, 1893)	<i>Nea_mus</i>	0	0.16 ( $\pm$ 0.16)	0	0
<i>Paratullbergia callipygos</i> (Borner, 1901)	<i>Par_cal</i>	0	0.08 ( $\pm$ 0.08)	0.22 ( $\pm$ 0.22)	0
<i>Protaphorura armata</i> (Tullberg, 1869)	<i>Pro_arm</i>	0.57 ( $\pm$ 0.57)	0	0.55 ( $\pm$ 0.44)	0.55 ( $\pm$ 0.24)
<i>Proisotoma minuta</i> (Tuulberg, 1871)	<i>Pro_min</i>	0	0	0.11 ( $\pm$ 0.11)	0
<i>Schaefferia emucronata</i> (Deharveng & Gers, 1979)	<i>Sch_emu</i>	0.14 ( $\pm$ 0.14)	0	0	0
<i>Sminthurus viridis</i> (Linnaeus, 1758)	<i>Smi_vir</i>	0	0.16 ( $\pm$ 0.16)	0	0

<i>Sphaeridia pumilis</i> (Krausbauer, 1898)	<i>Sph_pum</i>	0	0.25 (±0.18)	0.11 (±0.11)	0
<i>Tomocerus longicornis</i> (Müller, 1776)	<i>Tom_lon</i>	0	0.08 (±0.08)	0	0
<i>Willemia sp.</i> (Borner, 1901)	<i>Will_x</i>	0.14 (±0.14)	0.08 (±0.08)	0	0
<i>Xenylla acauda</i> (Gisin, 1947)	<i>Xen_aca</i>	0.42 (±0.42)	0	0	0

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