Table S1. Results of morphological characters of the inflorescences, achenes and pollen of the eleven populations found in flower between March and May 2021

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<th>Locality code and valley name</th>
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<th>BLB01 Mistra</th>
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<th>BLB02 Ħżejjen</th>
<th>BLB03 Ħżejjen</th>
<th>BLB04 Arka</th>
<th>BLB04 Rihana</th>
<th>BLB05 Gnejna</th>
<th>BLB06 Sara</th>
<th>BLB07 Kapuċċini</th>
<th>BLB08 Cianti</th>
<th>BLB08 Ħżejjen</th>
<th>BLB09 Marsalforn</th>
<th>BLB09 Marsalforn valley</th>
<th>BLB10 Marsalforn shore</th>
<th>BLB11 Ramla</th>
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<td>Malta</td>
<td>Malta</td>
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<td>Malta</td>
<td>Malta</td>
<td>Malta</td>
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<tr>
<td>No. of sessile spikelets</td>
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<td>8 – 17</td>
<td>8 – 13</td>
<td>9 – 14</td>
<td>8 – 10</td>
<td>7 – 9</td>
<td>7 – 16</td>
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<td>7 – 9</td>
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<td>7 – 12</td>
<td>9 – 13</td>
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<td>5.3</td>
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<td>5.2</td>
<td>4.8</td>
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<tr>
<td>Length of rays (average, mm)</td>
<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
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<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
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<td>13.3 – 18.4</td>
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<td>13.3 – 18.4</td>
<td>13.3 – 18.4</td>
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Electronic Supplementary File 1. https://doi.org/10.7320/FIMedit32.053.1

Version of Record published online on 10 June 2022.
**ACHENES (n=55)**

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<td>×1.98</td>
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<td>×1.8–2.4</td>
<td>×1.7–2.2</td>
<td>×1.8–2.3</td>
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| POLLEN (n=153–183)**

| Pollen Length (range, µm) | 51.0–63.3 | 50.3–62.7 | 48.7–56.3 | 51.7–53.6 | 48.3–68.1 | 54–94.3 | 47.2–54.9 | 53.7–62.7 | 45.8–94.1 | 50.3–63.6 | 30.4–59.7 | 51.6–71.6 | 48.6–58.2 | 46.9–60.4 | 48.4–65.7 |
| Pollen Length (average, µm) | 56.9 | 56.4 | 53.5 | 52.7 | 58.9 | 58.9 | 51.8 | 58.8 | 55 | 56.9 | 54.6 | 62.4 | 54.1 | 56.9 | 58.2 |
| Pollen width (range, µm) | 29.5–38.3 | 32.2–39.4 | 27.6–33 | 29.9–31.5 | 26.9–34 | 28.7–36.3 | 27.5–33.8 | 30.6–37.8 | 26–40.3 | 29.7–36.9 | 27.4–34.1 | 27.7–32.2 | 27.8–34.2 | 26.3–41.4 | 28.4–39.8 |
| Pollen width (average, µm) | 32.9 | 36.9 | 30.2 | 30.7 | 32.2 | 32.1 | 30.4 | 33.7 | 32.2 | 32.9 | 30.9 | 31.9 | 33.9 | 33.9 |
| Pollen length/width ratio (range) | 1.6–2.0 | 1.3–1.9 | 1.6–2.0 | 1.3–2.2 | 1.6–2.1 | 1.6–1.9 | 1.5–1.9 | 1.5–2.0 | 1.5–1.9 | 1.5–2.0 | 1.5–2.4 | 1.5–2.0 | 1.5–2.0 | 1.5–2.1 |
| Pollen length/width ratio (average) | 1.7 | 1.6 | 1.8 | 1.7 | 1.9 | 1.6 | 1.7 | 1.8 | 1.7 | 1.6 | 1.9 | 1.6 | 1.7 | 1.8 |
Fig. S1. Hymenoptera visiting and harvesting pollen from population BLB11 on the 30th of May, 2021 (left: *Apis mellifera* s. l.; middle and right Halictidae species).

Fig. S2. Comparison of the mean length and width of pollen of *Bolboschoenus* populations from the Maltese Islands.

<table>
<thead>
<tr>
<th>Locality of Population</th>
<th>Pollen Length (average, µm)</th>
<th>Pollen width (average, µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wied-ta’llejien</td>
<td>30,2</td>
<td>32,2</td>
</tr>
<tr>
<td>Wied-ta’l-Akara</td>
<td>32,2</td>
<td>33,1</td>
</tr>
<tr>
<td>Wied Rihena</td>
<td>30,4</td>
<td>32,9</td>
</tr>
<tr>
<td>Wied-ta’l-Gnejna</td>
<td>32,9</td>
<td>35,9</td>
</tr>
<tr>
<td>Wied-ta’l-Mistra (valleys)</td>
<td>35,9</td>
<td>33,7</td>
</tr>
<tr>
<td>Wied Sara</td>
<td>32,2</td>
<td>32,2</td>
</tr>
<tr>
<td>Wied Kapuccini</td>
<td>30,9</td>
<td>32,9</td>
</tr>
<tr>
<td>Wied-ta’ Canti (valleys)</td>
<td>32,9</td>
<td>32,9</td>
</tr>
<tr>
<td>Marsalforn valley</td>
<td>30,8</td>
<td>33,9</td>
</tr>
<tr>
<td>Marsalforn shore</td>
<td>33,9</td>
<td>33,6</td>
</tr>
<tr>
<td>Wied Ta’ Ramla</td>
<td>32,9</td>
<td>32,2</td>
</tr>
</tbody>
</table>

Comparison of mean length and width of pollen.
Fig. S3. Comparison of pollen sizes of rayless and ray-bearing specimens (n=63) in three tested populations.