Supplementary table 1.Endosymbionts composition of whitefly *Bemisia tabaci* Mediterranean (MED) species collected in São Paulo and Paraná State, Brazil, between 2017 and 2019. Middle East-Asia Minor 1 (MEAM1) species was not tested for endosymbionts.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Location** | **Host plant** | **% species** | **Endosymbionts** |
| **MEAM1a** | **MED** | **H** | **R** | **W** | **C** | **F** | **A** |
| 1 | Bandeirantes/PR | *Cucumis sativus (GH)* |  | 100 | 9/10 (GenBank MK967465) | 0/10 | 0/10 | 0/10 | 0/10 | 0/10 |
| 2 | Cambara/PR | *Cucumis sativus (GH)* |  | 100 | 8/10 | 0/10 | 0/10 | 0/10 | 0/10 | 0/10 |
| 3 | São Pedro do Turvo/SP | *Cucumis sativus (GH)* |  | 100 | 7/10 | 2/10 | 10/10 | 0/10 | 0/10 | 0/10 |
| 4 | São Pedro do Turvo/SP | *Cucumis sativus (GH)* |  | 100 | -\* | - | - | - | - | - |
| 5 | Óleo/SP | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 6 | Óleo/SP | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 7 | Pirajuí/SP | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 8 | Bandeirantes/PR | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 9 | Bandeirantes/PR | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 10 | São Pedro do Turvo/SP | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 11 | São Pedro do Turvo/SP | *Cucumis sativus (GH)* |  | 100 | - | - | - | - | - | - |
| 12 | Óleo/SP | *Cucumis sativus (GH)* |  | 100 |  |  |  |  |  |  |
| 13 | São Miguel Arcanjo/SP | *Solanum lycopersicum (GH)* |  | 100 | 8/10 | 0/10 | 10/10 | 0/10 | 0/10 | 0/10 |
| 14 | Bandeirantes/PR | *Solanum lycopersicum (GH)* | 10 | 90 | - | - | - | - | - | - |
| 15 | Cambara/PR | *Solanum lycopersicum (GH)* | 20 | 80 | 8/8 | 8/8 | 0/8 | 0/8 | 0/8 | 0/8 |
| 16 | Santa Cruz do Rio Pardo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 17 | São Pedro do Turvo/SP | *Solanum lycopersicum (GH)* | 10 | 90 | - | - | - | - | - | - |
| 18 | Óleo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 19 | Óleo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 20 | Óleo/SP | *Solanum lycopersicum (GH)* |  | 100 | 10/10 (GenBank MK967466) | 0/10 | 0/10 | 0/10 | 0/10 | 0/10 |
| 21 | Óleo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 22 | São Miguel Arcanjo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 23 | São Miguel Arcanjo/SP | *Solanum lycopersicum (GH)* |  | 100 | - | - | - | - | - | - |
| 24 | Sumaré/SP | *Solanum lycopersicum (OF)* | 50 | 50 | 0/5 | 5/5 (GenBank MK967462) | 2/5 | 0/5 | 0/5 | 1/5 (GenBank MK967802) |
| 25 | Monte Mor/SP | *Solanum lycopersicum (OF)* | 70 | 30 | 0/3 | 3/3 | 2/3 | 0/3 | 0/3 | 1/3 |
| 26 | Sumaré/SP | *Solanum lycopersicum (OF)* | 40 | 60 | - | - | - | - | - | - |
| 27 | Sumaré/SP | *Solanum lycopersicum (OF)* | 80 | 20 | - | - | - | - | - | - |
| 28 | São Miguel Arcanjo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 29 | São Miguel Arcanjo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 30 | Bragança Paulista/SP | *Capsicum annuum (GH)* |  | *100* | *-* | - | - | - | - | - |
| 31 | Elias Fausto/SP | *Capsicum annuum (OF)* |  | 100 | 2/10 | 8/10  | 10/10 | 0/10 | 0/10 | 1/10 |
| 32 | Elias Fausto/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 33 | Vitoriana/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 34 | São Miguel Arcanjo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 35 | Itápolis/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 36 | Itápolis/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 37 | Bauru/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 38 | São Miguel Arcanjo/SP | *Capsicum annuum (GH)* |  | 100 | 8/10 | 3/10 (GenBank MK967463) | 0/10 | 0/10 | 0/10 | 0/10 |
| 39 | São Miguel Arcanjo/SP | *Capsicum annuum (GH)* |  | 100 |  |  |  |  |  |  |
| 40 | Bandeirantes/PR | *Capsicum annuum (GH)* |  | 100 | 8/10 | 0/10 | 0/10 | 0/10 | 0/10 | 0/10 |
| 41 | Cambara/PR | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 42 | Cambara/PR | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 43 | Santa Cruz do Rio Pardo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 44 | São Pedro do Turvo/SP | *Capsicum annuum (GH)* |  | 100 | 8/10 (GenBank MK967467) | 0/10 | 10/10 (GenBank MK967968) | 0/10 | 0/10 | 0/10 |
| 45 | São Pedro do Turvo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 46 | São Pedro do Turvo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 47 | Bernardino do Campo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 48 | Bernardino do Campo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 49 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 50 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 51 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 52 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 53 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 54 | Óleo/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 55 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 56 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 57 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 58 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 59 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 60 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 61 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 62 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 63 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | 9/10 (GenBank MK967468) | 0/10 | 0/10 | 0/10 | 0/10 | 0/10 |
| 64 | Pirajuí/SP | *Capsicum annuum (GH)* |  | 100 | - | - | - | - | - | - |
| 65 | Itápolis/SP | *Solanum melongena (OF)* | 40 | 60 | - | - | - | - | - | - |
| 66 | Elias Fausto/SP | *Solanum melongena (OF)* |  | 100 | 0/10 | 10/10 (GenBank MK967464) | 10/10 (GenBank MK967969) | 0/10 | 0/10 | 10/10 |
| 67 | Pirajuí/SP | *Solanum melongena (OF)* |  | 100 | - | - | - | - | - | - |
| 68 | Pirajuí/SP | *Amaranthus sp. (GH)* |  | 100 | - | - | - | - | - | - |
| 69 | Pirajuí/SP | *Bidens pilosa* *(GH)* |  | 100 | - | - | - | - | - | - |
| 70 | Pirajuí/SP | *Conyza* sp. *(GH)* |  | 100 | - | - | - | - | - | - |
| 71 | Óleo/SP | *Artemisia absinthium (GH)* |  | 100 | - | - | - | - | - | - |
| 72 | Óleo/SP | *Emilia fosbergii (GH)* |  | 100 | - | - | - | - | - | - |
| 73 | Óleo/SP | *Chamaesyce* sp. *(GH)* |  | 100 | - | - | - | - | - | - |
| 74 | Mogi Mirim/SP | Weed *(GH)* |  | 100 | - | - | - | - | - | - |

\*Populations of whitefly not tested for endosymbionts; a Insects of MEAM1 species were not tested for endosymbionts; (H) *Hamiltonella*, (R) *Rickettsia*, (W) *Wolbachia,* (C) *Cardinium,* (F) *Fristchea* and (A) *Arsenophonus*.