Table S. Sequences generated in current study

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| **Voucher** | **Species** | **Host** | **GenBank accession number** |
| **ITS** | **LSU** |
| IRAN 3906 | *Erysiphe aquilegiae* | *Thalictrum minus* | OP806831 | OP806872 |
| GUM 1859 | *Erysiphe aquilegiae* var*. aquilegiae* | *Ranunculaceae* | OP806832 | OP806873 |
| GUM 1868 | *Erysiphe betae* | *Beta vulgaris* | OM856016 | — |
| IRAN 15785 | *Erysiphe betae* | *Spinacia* sp*.* | OM856015 | OM978354 |
| IRAN 15782 | *Erysiphe betae* | *Beta vulgaris* | OM856014 | OM978353 |
| GUM 1838 | *Erysiphe buhrii* | *Mesostemma kotschyana* | OM856005 | OM978346 |
| IRAN 15064 | *Erysiphe caulicola* | *Astragalus polybotrys* | OP806838 | OP806880 |
| IRAN 10786 | *Erysiphe circaeae* | *Circaea lutetiana* | OM856013 | — |
| GUM 1842 | *Erysiphe convolvuli* var*. calystegiae* | *Convolvulus* sp*.* | OM855993 | — |
| GUM 1840 | *Erysiphe convolvuli* var*. convolvuli* | *Convolvulus arvensis* | OM855994 | — |
| IRAN 1157 | *Erysiphe cruchetiana* | *Ononis spinosa* | OP806845 | OP806885 |
| GUM 1831 | *Erysiphe cruciferarum s. lat.* | *Brassicaceae* | OM856026 | OM978337 |
| GUM 1830 | *Erysiphe cruciferarum s. lat.* | cf*. Brassica nigra* | OM856025 | OM978336 |
| GUM 1829 | *Erysiphe cruciferarum s. lat.* | *Brassicaceae* | OM856024 | — |
| GUM 1828 | *Erysiphe cruciferarum s. str.* | *Alyssum* sp*.* | OM855992 | — |
| GUM 1879 | *Erysiphe heraclei* | *Ammi majus* | OM856023 | — |
| GUM 1878 | *Erysiphe heraclei* | *Apiaceae* | OM856022 | — |
| GUM 1877 | *Erysiphe heraclei* | *Apiaceae* | OM856021 | — |
| GUM 1875 | *Erysiphe heraclei* | *Pimpinella saxifraga* | OM856020 | OM978333 |
| GUM 1874 | *Erysiphe heraclei* | *Apiaceae* | OM856019 | — |
| GUM 1873 | *Erysiphe heraclei* | *Apiaceae* | — | OM978332 |
| GUM 1714 | *Erysiphe howeana* | *Oenothera biennis* | OM856007 | OM978348 |
| GUM 1826 | *Erysiphe lycopsidis* | *Anchusa arvensis subsp. orientalis* | OM856006 | OM978347 |
| IRAN 13852 | *Erysiphe malvae* | *Malva sylvestris* | OM856003 | OM978345 |
| GUM 1848 | *Erysiphe malvae* | *Malva* sp*.* | OM856002 | OM978339 |
| GUM 1809 | *Erysiphe pisi* | *Pisum sativum* | OP806846 | OP806886 |
| GUM 1855 | *Erysiphe rumicicola* | *Rumex crispus* | OP326701 | OP326703 |
| IRAN 16527F | *Erysiphe rumicicola* **(Holotype)** | *Rumex crispus* | OP326702 | OP326704 |
| GUM 1847 | *Erysiphe sedi* | *Bryophyllum* sp*.* | OM856009 | OM978350 |
| GUM 1912 | *Erysiphe sedi* | *Kalanchoe* sp*.* | OQ352834 | OQ352848 |
| IRAN 16919 | *Erysiphe urticae* | *Urtica* sp*.* | OM856018 | — |