**Table S1.** Details on taxa used in the molecular analyses.

|  |  |  |
| --- | --- | --- |
| Nematode species |  | GenBank cccession Nno. |
| Species name | Isolate name | Geographic origin | ITS | 28S  |
| *S. abbasi* | - | Pakistan |  | EF469773 | - |
| *S. abbasi* | - | USA |  | AY248749 | - |
| *S. abbasi* | - | Oman |  | AY230158 | - |
| *S. abbasi* | - | Oman |  | AY230158 | - |
| *S. abbasi* | - | Oman |  | - | AF331890 |
| *S. abbasi* | CS30 | India |  | - | MG189971 |
| *S. abbasi* | CS39 | India |  | - | MN528022 |
| *S. bicornutum* | - | Yugoslavia |  | - | AF331904 |
| *S. bicornutum* | - | Yugoslavia |  | AY230163 | - |
| *S. bicornutum* | - | Serbia |  | - | GU569045 |
| *S. bicornutum* | - | Russia |  | AY171279 | - |
| *S. bicornutum* | Yugoslavia | USA |  | AF121048 | - |
| *S. biddulphi*  | SGI-246 | South Africa |  | KT373857 | KT580950 |
| *S. bifurcatum* | PAK.S.37 | Pakistan |  | JX989267 | JQ838179 |
| *S. ceratophorum* | - | China |  | AY230165 | - |
| *S. ceratophorum* | TB43-2 | Pakistan |  | - | OQ626162 |
| *S. ceratophorum* | - | China |  | - | AF331888 |
| *S. ceratophorum* | 64-2 | China |  | - | MW029452 |
| *S. goweni* | LPV474 | Venezuela |  | KR781038 | KR781039 |
| *S. kandii* | 157c | Benin |  | KY228997 | MG495399 |
| *S. kandii* | 168d | Benin |  | KY228996 | MG495398 |
| *S. nepalense* | UGDM 104194 | Nepal |  | HQ190044 | HQ190045 |
| *S. pakistanense* | PAK.S.S.50 | Pakistan |  | - | JX068822 |
| *S. pakistanense* | PAK.S.S.43 | Pakistan |  | - | JX068823 |
| *S. pakistanense* | PAK.S.S.44 | Pakistan |  | - | JX068824 |
| *S. pakistanense* | PAK.S.S.50 | Pakistan |  | - | JX144738 |
| *S. pakistanense* | - | USA |  | AY748449 | - |
| *S. pakistanense* | SSRK52 | India |  | GQ497270 | - |
| *S. papilatum* | 723 | Venezuela |  | - | KM229421 |
| *S. papilatum* | V6 | Venezuela |  | KJ913707 | KJ913708 |
| *S. ralatorei* | MTB | Mexico |  | KP036473 | KP036475 |
| *S. ralatorei* | P7 | Mexico |  | KP036472 | - |
| *S. ralatorei* | P9 | Mexico |  | KP036474 | - |
| *S. riobrave* | - | USA |  | DQ835613 | - |
| *S. riobrave* | - | USA |  | AY230182 | - |
| *S. riobrave* | Bartow | USA |  | GU174000 | GU177833 |
| *S. riobrave* | Lennon 4 | USA |  | GU174001 | GU177834 |
| *S. riobrave* | TX | USA |  | - | AF331893 |
| ***S. shori* n. sp.** | **NBAIRS80** | **India** |  | **OR194554** | **OR194555** |
| *S.* sp. | AX-1 | Mexico |  | - | EF100770 |
| *S. scapterisci* | - | China |  | - | GU395646 |
| *S. scapterisci* | - | Uruguay |  | AY230183 | - |
| *S. yirgalemense* | - | Ethiopia |  | AY748450 | AY748451 |