**Table** – Host/substrate, geographical origin, collection codes and sequence GenBank accession numbers of *Fusarium* spp. reference strains from *Fusarium fujikuroi* (FFSC)species complex used for phylogenetic analysis

| **Species** | **Host/Substrate** | **Origin** | **Collectiona** | ***GenBank accessionb*** | | | | | **References** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***EF-1α*** | ***TUB2*** | ***ITS*** | ***CAL*** | ***RPB2*** |
| *F. acutatum* | Unknown | India | **NRRL 13309** | KR071754 | - | - | - | - | (Al-Hatmi et al. 2016c); |
| *F. agapanthi* | *Agapanthus praecox* | Australia | **NRRL 54463** | KU900630 | KU900635 | - | KU900611 | KU900625 | (Edwards et al. 2016) |
| *F. ananatum* | *Ananas comosus* | South Africa | **CBS 118516** | LT996091 | LT996112 | - | LT996175 | LT996137 | (Sandoval-Denis et al. 2018b) |
| *F. andiyazi* | *Sorghum bicolor* | South Africa | **NRRL 53928** | KR071718 | - | - | - | - | (Al-Hatmi et al. 2016c); |
| *F. anthophilum* | *Hippeastrum* sp. | Germany | NRRL 13602 | AF160292 | U61541 | KU604033 | LT996177 | LT996139 | (O’Donnell et al. 1998, 2000; Sandoval-Denis et al. 2018b); (Al-Hatmi et al., unpublished) |
| *F. awaxy* | *Zea mays* | Brazil | **LGMF1930** | MG839004 | MG839013 | MH252922 | MK766940 | MK766941 | (Crous et al. 2019) |
|  | *Zea mays* | Brazil | LGMF1661 | MG838954 | MG839011 | MH252921 | MK766939 | - | (Crous et al. 2019) |
|  | *Zea mays* | South Africa | MRC115 (ATCC 38016) | AB674285 | AB587056 | AB587008 | - | - | (Watanabe et al. 2011) |
|  | *Zea mays* | Argentina | 1.1 | MG857113 | - | - | - | - | (Martinez et al., unpublished) |
|  | *Zea mays* | Brazil | RV23-2 | KP336408 | - | - | - | - | (Faria et al. 2012) |
|  | *Zea mays* | South Korea | OS15 | JX867945 | - | - | - | - | (Kim et al. 2012) |
|  | *Zea mays* | China | Fs\_hap3 | KT716223 | - | - | - | - | (Zhang et al. 2016) |
|  | *Sorghum bicolor* | USA | M03S-C1-1 | KX681493 | - | - | - | - | (Funnell-Harris et al. 2017) |
| *F. bactridioides* | *Cronartium conigenum* | USA | **NRRL 20476** | AF160290 | U34434 | U34576 | AF158343 | - | (O’Donnell and Cigelnik 1997; O’Donnell et al. 2000) |
| *F. begoniae* | *Begonia elatior* | Germany | **NRRL 25300** | AF160293 | U61543 | U61673 | AF158346 | LT996140 | (O’Donnell et al. 1998, 2000; Sandoval-Denis et al. 2018b) |
| *F. brevicatenulatum* | *Striga asiatica* | Madagascar | **NRRL 25446** | AF160265 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. bulbicola* | *Nerine bowdenii* | Netherlands | **NRRL 13618** | AF160294 | U61546 | U61676 | KF466327 | KF466404 | (O’Donnell et al. 1998, 2000; Proctor et al. 2013) |
| *F. circinatum* | *Pinus radiata* | USA | **NRRL 25331** | AF160295 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. coicis* | *Coix gasteenii* | Australia | **NRRL 66233** | KP083251 | LT996115 | - | - | - | (Laurence et al. 2016; Sandoval-Denis et al. 2018b) |
| *F. concentricum* | *Musa sapientum* | Costa Rica | **NRRL 25181** | AF160282 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. denticulatum* | *Ipomoea batatas* | USA | NRRL 25302 | AF160269 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. dlaminii* | *Zea mays* (Field soil) | South Africa | **NRRL 13164** | AF160277 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. ficicrescens* | *Ficus carica* | Iran | **CBS 125178** | KP662899 | KP662896 |  |  |  | (Al-Hatmi et al. 2016b) |
| *F. fracticaudum* | *Pinus maximinoi* | Colombia | **CBS 137233** | KJ541059 | - | - | - | - | (Herron et al. 2015) |
| *F. fractiflexum* | *Cymbidium* sp. | Japan | **NRRL 28852** | AF160288 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. fredikrugeri* | *Melhania acuminata* rhizophere | South Africa | **CBS 144209** | LT996097 | - | - | - | - | (Sandoval-Denis et al. 2018b) |
| *F. fujikuroi* | *Oryza sativa* | Taiwan | **NRRL 13998** | KR071741 | - | - | - | - | (Al-Hatmi et al. 2016c) |
| *F. globosum* | *Zea mays* | South Africa | **NRRL 26131** | AF160285 | KF466439 | - | - | - | (O’Donnell et al. 2000; Proctor et al. 2013) |
| *F. guttiforme* | *Ananas comosus* | Brazil | **MRC 7539** | DQ282165 | - | - | HM204762 | - | (Jacobs et al. 2010); (Jacobs *et al.,* unpublished) |
| *F. konzum* | *Sorghastrum nuttans* | USA | **CBS 119849** | LT996098 | LT996118 | - | LT996182 | LT996148 | (Sandoval-Denis et al. 2018b) |
| *F. lactis* | *Ficus carica* | USA | **NRRL 25200** | AF160272 |  | - | - | - | (O’Donnell et al. 2000) |
| *F. lumajangense* | *Musa sp. var. Pisang Raja Nangka* | Indonesia | **InaCC F872** | LS479441 | LS479433 | - | - | - | (Maryani et al. 2019) |
| *F. mangiferae* | *Mangifera indica* | India | NRRL 25226 | AF160281 |  | - | - | - | (O’Donnell et al. 2000) |
| *F. marasasianum* | *Pinus patula* | Colombia | **CBS 137238** | KJ541063 | KJ541054 | - | - | - | (Herron et al. 2015) |
| *F. mexicanum* | *Mangifera indica* | Mexico | **NRRL 53147** | GU737282 | GU737494 | MG838062 | GU737389 | - | (Otero-Colina et al. 2010; Santillán-Mendoza et al. 2018) |
| *F. mundagurra* | Soil | Australia | **NRRL 66235** | KP083256 | - | - | - | - | (Laurence et al. 2016) |
| *F. musae* | *Musa sapientum* | Honduras | **NRRL 25059** | FN552086 | - | - | - | - | (Van Hove et al. 2011) |
| *F. napiforme* | *Pennisetum typhoides* | South Africa | **NRRL 13604** | AF160266 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. nygamai* | *Sorghum bicolor* | Australia | **NRRL 13488** | AF160273 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. parvisorum* | *Pinus patula* | Colombia | **CBS 137236** | KJ541060 | KJ541055 | - | LT996183 | LT996150 | (Herron et al. 2015; Sandoval-Denis et al. 2018b) |
| *F. phyllophilum* | *Dracaena deremensis* | Italy | **NRRL 13617** | AF160274 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. pininemorale* | *Pinus tecunumanii* | Colombia | **CBS 137240** | KJ541064 | KJ541049 | - | - | - | (Herron et al. 2015) |
| *F. proliferatum* | *Cattleya* sp. | Germany | NRRL 22944 | AF160280 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. pseudoanthophilum* | *Zea mays* | Zimbabwe | NRRL 25206 | AF160264 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. pseudocircinatum* | *Solanum* sp. | Ghana | **NRRL 22946** | AF160271 | - | - | - | - | (O’Donnell *et al.*, 2000b) |
| *F. pseudonygamai* | *Pennisetum typhoides* | Nigeria | **NRRL 13592** | AF160263 | - | - | - | - | (O’Donnell *et al.*, 2000b) |
| *F. ramigenum* | *Ficus carica* | USA | **NRRL 25208** | AF160267 | - | - | - | - | (O’Donnell et al. 2000) |
| *F. sacchari* | *Saccharum officinarum* | India | NRRL 13999 | AF160278 | - | - | - | - | (O’Donnell *et al.*, 2000b) |
| *F. secorum* | *Beta vulgaris* | USA | **NRRL 62593** | KJ189225 | - | - | - | - | (Secor et al. 2014) |
| *F. siculi* | *Citrus sinensis* | Italy | **CBS 142422** | LT746214 | LT746346 | - | - | - | (Sandoval-Denis et al. 2018a) |
| *F. sororula* | *Pinus patula* | Colombia | **CBS 137242** | KJ541067 | KJ541057 | - | LT996184 | LT996153 | (Herron et al. 2015; Sandoval-Denis et al. 2018b) |
| *F. sterilihyphosum* | *Mangifera indica* | South Africa | **NRRL 25623** | AF160300 | AF160316 | AF158305 | AF158353 | - | (O’Donnell et al. 2000) |
| *F. subglutinans* | *Zea mays* | USA | **NRRL 22016** | AF160289 | U34417 | U34559 | AF158342 | JX171599 | (O’Donnell and Cigelnik 1997; O’Donnell et al. 2000, 2013) |
|  | *Zea mays* | Belgium | MUCL 52468 | HM067691 | HM067699 | - | - | - | (Scauflaire et al. 2011) |
|  | *Zea mays* | South Africa | NRRL 53904 | KR071769 | KU603892 | KR071624 | KU603983 | KU604281 | (Al-Hatmi et al. 2016c); (Al-Hatmi *et al.*, unpublished) |
|  | Human blood | Italy | NRRL 54158 | KR071770 | KU603893 | KR071625 | KU603982 | KU604282 | (Al-Hatmi et al. 2016c); (Al-Hatmi *et al.*, unpublished) |
| *F. succisae* | *Succisa pratensis* | Germany | NRRL 13613 | AF160291 | U34419 | U34561 | AF158344 | LT996154 | (O’Donnell and Cigelnik 1997; O’Donnell et al. 2000; Sandoval-Denis et al. 2018b) |
| *F. sudanense* | *Striga hermonthica* | Sudan | **NRRL 26793** | KU711697 | KU603909 | - | - | - | (Moussa et al. 2017) |
| *F. temperatum* | *Zea mays* | Belgium | **MUCL 52450** | HM067687 | HM067695 | - | - | - | (Scauflaire et al. 2011); |
|  | *Zea mays* | South Africa | NRRL 25622 | AF160301 | AF160317 | AF158306 | AF158354 | LT970765 | (O’Donnell et al. 2000); (Sandoval-Denis *et al.*, unpublished) |
| *F. terricola* | Desert soil | Australia | **NRRL 36490** | KU711698 | - | - | - | - | (Moussa et al. 2017) |
| *F. thapsinum* | *Sorghum bicolor* | South Africa | NRRL 22045 | AF160270 | - | - | - | - | (O’Donnell *et al.*, 2000b) |
| *F. tjaetaba* | *Sorghum interjectum* | Australia | **NRRL 66243** | KP083263 | - | - | - | - | (Laurence et al. 2016) |
| *F. tupiense* | *Mangifera indica* | Brazil | **NRRL 53984** | DQ452859 | DQ445781 | - | GU737377 | - | (Otero-Colina et al. 2010; Lima et al. 2012) |
| *F. udum* | Unknown | Germany | NRRL 22949 | AF160275 | - | - | - | - | (O’Donnell *et al.*, 2000b) |
| *F. verticillioides* | *Zea mays* | Germany | NRRL 22172 | AF160262 | - | - | - | - | ( O’Donnell *et al.*, 2000b) |
| *F. werrikimbe* | *Sorghum leiocladium* | Australia | **CBS 125535** | EF107131 | EF107133 | MH863588 | - | - | (Walsh et al. 2010; Vu et al. 2019) |
| *F. xylarioides* | *Coffea* sp. | Ivory Coast | **NRRL 25486** | AY707136 | - | - | - | - | (Geiser et al. 2005) |
| *Fusarium* sp. | *Sorghum bicolor* | Tanzania | NRRL 26064 | AF160302 | - | - | - | - | (O’Donnell et al. 2000) |
|  | *Zea mays* | Zimbabwe | NRRL 25221 | AF160268 | - | - | - | - | (O’Donnell et al. 2000) |
|  | *Oryza sativa* | Nigeria | NRRL 25615 | AF160304 | - | - | - | - | (O’Donnell et al. 2000) |
|  | Soil | Australia | NRRL 25807 | AF160305 | U61542 | U61672 | AF158358 | - | (O’Donnell et al. 1998, 2000) |
|  | Wood | Venezuela | NRRL 25195 | AF160298 | U61558 | U61688 | AF158351 | - | (O’Donnell et al. 1998, 2000) |
|  | *Ipomoea batatas* | Peru | NRRL 25346 | AF160296 | U61564 | U61694 | AF158349 | - | (O’Donnell et al. 1998, 2000) |
|  | Ornamental grass | South Africa | NRRL 26756 | AF160307 | AF160322 | AF158310 | AF158360 | - | (O’Donnell et al. 2000) |
|  | Ornamental reed | South Africa | NRRL 26757 | AF160308 | AF160323 | AF158311 | AF158361 | - | (O’Donnell et al. 2000) |
|  | Palm | Venezuela | NRRL 25204 | AF160299 | U61559 | U61689 | AF158352 | - | (O’Donnell et al. 1998, 2000) |
|  | *Bidens pilosa* | USA | NRRL 29124 | AF160311 | AF160326 | AF158314 | AF158364 | - | (O’Donnell et al. 2000) |
|  | *Triticum aestivum* | Japan | NRRL 25309 | AF160284 | - | - | - | - | (O’Donnell et al. 2000) |
|  | *Oryza sativa* | Japan | NRRL 25303 | AF160283 | - | - | - | - | (O’Donnell et al. 2000) |
|  | Soil | Papua New Guinea | NRRL 26427 | AF160286 | AF160313 | - | - | - | (O’Donnell et al. 2000) |

aCollection - Type strains included in analysis are indicated in **bold.** Culture collection abbreviations: ATCC = American Type Culture Collection, Virginia, USA; CBS = Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands; CPC = Collection of Pedro W. Crous, held at the Westerdijk Fungal Biodiversity Institute; InaCC = Indonesian Culture Collection, Research Center for Biology, Indonesian Institute of Sciences (LIPI) Cibinong, Indonesia; LGMF = Laboratório de Genética de Microrganismos, Universidade Federal do Paraná, Paraná, Brazil; MRC = Medical Research Council, Tygerberg, Cape Town, South Africa; MUCL = Mycothèque de l’Université Catholique de Louvain, Louvain-la-Neuve, Belgium; NRRL= National Center for Agricultural Utilization Research, Peoria, Illinois, USA.

bGenBank – CAL: calmodulin gene; EF*-1α*: Translation elongation factor 1-alpha gene; *ITS*: internal transcribed spacer region of the rDNA; *RPB2*: RNA polymerase second largest subunit gene; *TUB2*: Beta-tubulin gene; - : Information or sequence not available or not applicable to the present study

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