**Supplementary Table 1. Microbial strains and primers used in this study.**

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| **STRAIN** | **CHARACTERISTICS** | **SOURCE** |
| **BACTERIAL STRAINS** |  |  |
| ***Streptomyces strains*** |  |  |
| *Streptomyces* A20 | Rice rhizosphere isolate | This study |
| *Streptomyces* 5.1 | Rice rhizosphere isolate | This study |
| *Streptomyces* 7.1 | Rice rhizosphere isolate | This study |
| **BACTERIAL STRAINS FOR ANTIMICROBIAL ASSAYS** |  |  |
| *Acidovorax avenae* 4008-2 | Rice pathogen | CIAT (Unpublished) |
| *Acinetobacter baumannii* ATCC 19606 | Human pathogen | ATCC |
| *Bacillus* sp*. C636* |  Native strain | IBUN strain collection |
| *Bacillus subtilis* ATCC 21556 | Commercial strain | ATCC |
| *Burkholderia glumae* 320012 | Phytopathogen | CIAT (Unpublished) |
| *Burkholderia. glumae* CIAT 4026 | Phytopathogen | CIAT (Unpublished) |
| *Burkholderia glumae* AU6208 | Clinical isolate | (Weinberg et al., 2007) |
| *Burkholderia gladioli* CIAT 3704-1 | Rice pathogen | CIAT (Unpublished) |
| *B. gladioli* CIAT 3962 | Rice pathogen | CIAT (Unpublished) |
| *Chromobacterium violaceum* ATCC 31532 | Commercial strain | ATCC |
| *Enterobacter aerogenes* 7ARG | Commercial strain | IBUN strain collection  |
| *Escherichia coli DH5α* | Commercial strain | GIBCO-BBL Life Technologies |
| *Escherichia coli* ATCC 23724 | Commercial strain | ATCC |
| *Escherichia coli* ATCC 25922 | Commercial strain | ATCC |
| *Klebsiella pneumoniae* ATCC 700603 | Multi-resistant strain | ATCC |
| *Pseudomonas putida* F117 pKRC12 |  QS-Biosensor strain | (Riedel et al., 2001) |
| *Pseudomonas aeruginosa* ATCC 27853 | Commercial strain | ATCC |
| *Pseudomonas fuscovaginae* CIAT 3638-19 | Phytopathogen | CIAT (Unpublished) |
| *Pseudomonas. fuscovaginae* CIAT 3668π3 | Phytopathogen | CIAT (Unpublished) |
| *Pseudomonas fuscovaginae* UPB0736 | Phytopathogen | (Mattiuzzo et al., 2010) |
| *Staphylococcus aureus* ATCC 25923 | Human pathogen | ATCC |
| **FUNGAL STRAINS** |  |  |
| *Colletotrichum* sp. *24C* (FIF024) | Yam pathogen  | Yam research group – IBUN |
| *Colletotrichum* sp. *26B* | Yam pathogen | Yam research group – IBUN |
| *Fusarium* sp*. DC9 (*FIF025) | Yam pathogen | Yam research group – IBUN |
| *Fusarium* sp. *DC 13B* | Yam pathogen | Yam research group – IBUN |
| *Fusarium oxysporum* | Clover pathogen | Group study plant metabolic activities.Department of Chemistry UNAL |
| *Gaeumannomyces* sp*.* (FPR010) | Rice pathogen | Yam research group – IBUN |
| *Penicillium janthinellum* FP010 | Native strain  | (Scervino et al., 2010) |
| *Phomopsis* sp*.*DC1B (FIF027) | Yam pathogen | Yam research group – IBUN |
| *Rhizoctonia solani* (FPR011) | Rice pathogen  | Yam research group – IBUN |
| *Ullocladium* sp*.* 29E (FIF023) | Yam pathogen | Yam research group – IBUN |
| **PLANT GROWTH PROMOTING STRAINS** |  |  |
| *Azospirillum brasilense* AZPP010 | Plant Growth Promoting Strain | (Moreno and Rojas, 2008) |
| *Azotobacter chroccoccum* AZFN010 | Growth Promoting Strain | (Moreno, 2011) |

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| **Locus** | **Primer** | **Sequence (5´🡪 3´)** | **Reference** |
| 16S | 16SA | CCGTCGACGAGCTCAGAGTTTGATCCTGGCTCAG | (Cui et al., 2001) |
| 16S | 16SB | CCCGGGTACCAAGCTTAAGGAGGTGATCCAGCCGCA |
| *gyrB* | gyrBPFgyrBPR | GAGGTCGTGCTGACCGTGCTGCACGCGGGCGGCAAGTTCGGC GTTGATGTGCTGGCCGTCGACGTCGGCGTCCGCCAT | (Guo et al., 2008) |
| *atpD* | atpDPFatpDPR | GTCGGCGACTTCACCAAGGGCAAGGTGTTCAACACCGTGAACTGCTTGGCGACGTGGGTGTTCTGGGACAGGAA |
| *recA* | recAPFrecAPR | CCGCRCTCGCACAGATTGAACGSCAATTC GCSAGGTCGGGGTTGTCCTTSAGGAAGTTGCG |
| *trpB* | trpBPF trpBPR | GCGCGAGGACCTGAACCACACCGGCTCACACAAGATCAACA TCGATGGCCGGGATGATGCCCTCGGTGCGCGACAGCAGGC |
| *rpoB* | rpoBPFrpoBPR | GAGCGCATGACCACCCAGGACGTCGAGGC CCTCGTAGTTGTGACCCTCCCACGGCATGA |

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