**[Supplementary Table 1](#sutab_accession). List of species include in the *in silico* mock community, with associated Kingdom and NCBI**

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| --- | --- | --- |
| Species | Kingdom | NCBI Accession |
| *Actinidia chinensis* | Plantae | CM009654.1 |
| *Ananas comosus* | Plantae | CM003813.1 |
| *Arabidopsis thaliana* | Plantae | CP002684.1 |
| *Brassica nigra* | Plantae | CM004491.1 |
| *Camelina sativa* | Plantae | CM002729.1 |
| *Citrus sinensis* | Plantae | CM001701.1 |
| *Dioscorea rotundata* | Plantae | BDMI01000001.1 |
| *Eutrema salsugineum* | Plantae | CM001778.1 |
| *Gossypioides kirkii* | Plantae | CM008980.1 |
| *Leersia perrieri* | Plantae | CM002476.1 |
| *Malus domestica* | Plantae | CM007867.1 |
| *Micromonas sp.* | Plantae | CP001574.1 |
| *Panicum hallii* | Plantae | CM008046.2 |
| *Raphanus sativus* | Plantae | CM007999.1 |
| *Rosa chinensis* | Plantae | CM009582.1 |
| *Setaria italica* | Plantae | CM004364.1 |
| *Solanum lycopersicum* | Plantae | CM001064.3 |
| *Sorghum bicolor* | Plantae | CM000760.3 |
| *Theobroma cacao* | Plantae | LT594788.1 |
| *Trifolium pratense* | Plantae | LT555306.1 |
| *Amphiprion percula* | Animalia | CM009708.1 |
| *Bos indicus* | Animalia | CM003021.1 |
| *Capra hircus* | Animalia | CM001710.2 |
| *Chrysemys picta* | Animalia | CM002655.1 |
| *Columba livia* | Animalia | CM007525.1 |
| *Cyprinus carpio* | Animalia | LN590701.1 |
| *Drosophila busckii* | Animalia | CP012523.1 |
| *Equus caballus* | Animalia | CM000377.2 |
| *Falco peregrinus* | Animalia | CM007505.1 |
| *Homo sapiens* | Animalia | CM004593.1 |
| *Lycaon pictus* | Animalia | CM007565.1 |
| *Macaca mulatta* | Animalia | CM000308.1 |
| *Microcebus murinus* | Animalia | CM007661.1 |
| *Mus musculus* | Animalia | CM004154.1 |
| *Oncorhynchus tshawytscha* | Animalia | CM009202.1 |
| *Oryctolagus cuniculus* | Animalia | CM000790.1 |
| *Ovis aries* | Animalia | CM008472.1 |
| *Takifugu rubripes* | Animalia | HE602535.1 |
| *Timema cristinae* | Animalia | CM007794.2 |
| *Xiphophorus maculatus* | Animalia | CM008938.1 |
| *Agaricus bisporus* | Fungi | CP015470.1 |
| *Alternaria solani* | Fungi | CP022024.1 |
| *Colletotrichum higginsianum* | Fungi | CM004455.1 |
| *Cryptococcus gattii* | Fungi | CP025759.1 |
| *Debaryomyces hansenii* | Fungi | CR382133.2 |
| *Eremothecium sinecaudum* | Fungi | CP014242.1 |
| *Flammulina velutipes* | Fungi | CM002695.1 |
| *Fusarium verticillioides* | Fungi | CM000578.1 |
| *Kluyveromyces lactis* | Fungi | CR382121.1 |
| *Komagataella phaffii* | Fungi | LT962476.1 |
| *Lachancea nothofagi* | Fungi | LT598449.1 |
| *Malassezia sympodialis* | Fungi | LT671813.1 |
| *Millerozyma farinosa* | Fungi | FO082059.1 |
| *Ogataea parapolymorpha* | Fungi | CM002300.1 |
| *Saccharomyces cerevisiae* | Fungi | BK006935.2 |
| *Sporisorium scitamineum* | Fungi | CP010913.1 |
| *Trichoderma reesei* | Fungi | CP016232.1 |
| *Valsa mali* | Fungi | CM003098.1 |
| *Yarrowia lipolytica* | Fungi | HG934059.1 |
| *Zygosaccharomyces rouxii* | Fungi | CU928173.1 |
| *Acidithiobacillus ferrivorans* | Bacteria | LT841305.1 |
| *Bacillus thuringiensis* | Bacteria | CP015250.1 |
| *Bacillus velezensis* | Bacteria | CP025939.1 |
| *Bifidobacterium longum* | Bacteria | CP013673.1 |
| *Bordetella bronchiseptica* | Bacteria | CM002881.1 |
| *Brucella melitensis* | Bacteria | CP018494.1 |
| *Campylobacter jejuni* | Bacteria | CP012689.1 |
| *Caulobacter crescentus* | Bacteria | AE005673.1 |
| *Cellvibrio japonicus* | Bacteria | CP000934.1 |
| *Escherichia albertii* | Bacteria | AP014855.1 |
| *Gordonibacter sp.* | Bacteria | LT827128.1 |
| *Klebsiella pneumoniae* | Bacteria | CP025088.1 |
| *Mycobacterium tuberculosis* | Bacteria | CP023640.1 |
| *Ornithobacterium rhinotracheale* | Bacteria | CP006828.1 |
| *Pseudomonas arsenicoxydans* | Bacteria | LT629705.1 |
| *Salmonella enterica* | Bacteria | CP007400.2 |
| *Serratia symbiotica* | Bacteria | LN890288.1 |
| *Staphylococcus aureus* | Bacteria | CP012974.1 |
| *Treponema pallidum* | Bacteria | CP020366.1 |
| *Vibrio cholerae* | Bacteria | LT907989.1 |