**S3 Table.** Origins of *Suillus* collections, cultures and spore prints used in this study. Cultures (tissue isolates) were isolated from fresh fruit bodies on MMN media (same media used for maintaining and storing cultures). For each *Suillus-Pinus* species pair examined (Fig. 1B), spore prints from three sporocarps (fruit bodies) were pooled and used to inoculate *Pinus* seedlings. Voucher collections of each species are deposited with the Duke University fungal herbarium (DUKE).

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| --- | --- | --- | --- | --- | --- |
| Fungal species | Sample type | Fungal strain ID | collection date | Host | Location |
| *S. americanus* | Culture | EM31 | 10 09 2012 | *P. strobus* | Coatesville, PA |
| *S. americanus* | Culture | EM29 | 10 09 2012 | *P. strobus* | Coatesville, PA |
| *S. americanus* | Culture | EM32 | 10 09 2012 | *P. strobus* | Coatesville, PA |
| *S. granulatus* | Culture | EM37 | 07 19 2013 | *P. strobus* | Coatesville, PA |
| *S. spraguei* | Culture | EM27 | 09 26 2012 | *P. strobus* | Durham, NC |
| *S. americanus* | basidiospore | SA0005 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. americanus* | basidiospore | SA0010 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. americanus* | basidiospore | SA0011 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. granulatus* | basidiospore | SG0004 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. granulatus* | basidiospore | SG0009 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. granulatus* | basidiospore | SG0014 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. spraguei* | basidiospore | SS0006 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. spraguei* | basidiospore | SS0012 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. spraguei* | basidiospore | SS0013 | 09 22 2012 | *P. strobus* | Little Switzerland, NC |
| *S. decipiens* | basidiospore | SD0002 | 08 24 2012 | *P. taeda* | Hillsborough, NC |
| *S. decipiens* | basidiospore | SD0003 | 08 24 2012 | *P. taeda* | Hillsborough, NC |
| *S. decipiens* | basidiospore | SD0008 | 08 24 2012 | *P. taeda* | Hillsborough, NC |
| *S. hirtellus* | basidiospore | SH0007 | 08 24 2012 | *P. taeda* | Hillsborough, NC |
| *S. hirtellus* | basidiospore | SH0015 | 08 24 2012 | *P. taeda* | Hillsborough, NC |
| *S. hirtellus* | basidiospore | SH0016 | 08 24 2012 | *P. taeda* | Hillsborough, NC |