



Figure S1. Microscopic fungal spores' visualization under light microscopy.

Sequence data for the *tef-1 α* gene partial from 16 *Fusarium* strains isolated from onion bulb (*Allium cepa* L.)

>*Fusarium* isolate Fo1

TTTCTTCGATCGCGCGTCCTTTGCCCATCGATTTCCCCTACGACTCGAAACGTGCCCCGCTACCCCGCTCGAGACCAA
AAATTTTGCAATATGATCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTTGAGCGACGGGAGCGTTTGCCCTCTT
AACCATTCTCACAACCTCAATGAGTGCGTCGTACGTGTCAAGCAGTCACTAACCATTCAACAATAGGAAGCCGCT
GAGCTCGGTAAGGGTGCTTCAAGTAAAA

>*Fusarium* isolate Fo2

ATACTTCTCGATCGCGCGTCCTCTGCCCACCGATCCATCACCCGAATCCGTCTCACGACGACTGAATATGCGCCTGT
ACCCCGCTCGAGTACAAAATTTTGGGTTCAATCGTAATTTTTTGGTGGCGCTTCTACCCCGCTACTCGAGTGACAG
GTGTTTGCCCTTTCCACAAAATCATTTGCGCATCACGTGTCAAACAGTCACTAACCACCCGACAATAGGAAGCC
GCCGAGCTCGGTAAGGGTC

>*Fusarium* isolate Fo3

ATCATTGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAGCGACTAACCATTGACAATAGGAAGCCGCTG
AGCTCGGTAAGGGTTCCTTCAAGTAAAA

>*Fusarium* isolate Fo4

TTCAATTCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAACGACTAACCATTGACAATAGGAAGCCGCTG
AGCTCGGTAAGGGTCCCTTCAAGTAA

>*Fusarium* isolate Fo5

TTATTCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAAA
AATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTTT
CCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAACGACTAACCATTGACAATAGGAAGCCGCTGA
GCTCGGTAAGGGTCCCTTCAAGTAAAA

>*Fusarium* isolate Fo6

TTTCATCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAGCGACTAACCATTGACAATAGGAAGCCGCTG
AGCTCGGTAAGGGTCCCTTCAAGTAA

>*Fusarium* isolate Fo7

TTTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAGCGACTAACCATTGACAATAGGAAGCCGCTG
AGCTCGGTAAGTTCCTTCAAGTAAAAA

>*Fusarium* isolate Fo8

TTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAAA
AATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTTT
CCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAGCGACTAACCATTGACAATAGGAAGCCGCTGA
GCTCGGTAAGGGCCCTTCAAGTAAGA

>*Fusarium* isolate Fo9

TTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACTTGCGATTGAAACGTGCCTGCTACCCCGCTCGAGACCAAA
AATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCACTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTTT
CCTGTCCACAACCTCAATGAGCGCATTGTACGTGTCAAGCAGCGACTAACCATTGACAATAGGAAGCCGCTGA
GCTCGGTAAGGTGGATTCAAGTAAAA

>*Fusarium* isolate Fo10

TTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAACGACTAACCATTTCGACAATAGGAAGCCGCTG
AGCTCGGTAAGTTCCATTCAAGTAAA

>*Fusarium* isolate Fo11

TTATTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAAA
AATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
CCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTGA
GCTCGGTAAGGGCCCTTCAAGTAA

>*Fusarium* isolate Fo12

TTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTG
AGCTCGGTAAGGTCAATTCAAGTAAAGT

>*Fusarium* isolate Fo13

TTTCTTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTG
AGCTCGGTAAGGGTCCCTTCAAGTAA

>*Fusarium* isolate Fo14

TTATTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAAA
AATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
CCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTGA
GCTCGGTAAGGGTAACTTCAAGTAA

>*Fusarium* isolate Fo15

TTGTTTCGATCGCGCGTCCTCTGCCCACCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAA
AAATTTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTT
TCCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTG
AGCTCGGTAAGGGTCCCTTCAAGTAA

>*Fusarium* isolate Fo16

CTTTGATCGCGCGTCCTCTGCCCCGATTTCACCTTGCGATTTCGAAACGTGCCTGCTACCCCGCTCGAGACCAAAAAT
TTTGCGATATGACCGTAATTTTTTTGGTGGGGCATTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTTTCCT
GTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTTCGACAATAGGAAGCCGCTGAGCT
CGGTAAGGGTTCCTTCAAGTAA