

Supplementary Table ST3. Dating constraints introduced for calibration. All ages are denoted in million years. Delineating taxa are given for most recent common ancestor (MRCA) identification of the dated node.

Constraint	Delineating nodes (MRCA)	Minimum age	Maximum age	Source
<i>Fungi-Animalia</i> split	<i>Caenorhabditis elegans</i> - <i>Aspergillus niger</i> ATCC 1015	875	1061	(Gueidan et al. 2011)
<i>Basidiomycetes-Ascomycetes</i> split	<i>Mixia osmundae</i> IAM 14324 – <i>Aspergillus niger</i> ATCC 1015	506	662	(Gueidan et al. 2011)
<i>Taphrinomycotinal/Ascomycotina</i> split	<i>Schizosaccharomyces pombe</i> 972h – <i>Aspergillus niger</i> ATCC 1015	462	612	(Gueidan et al. 2011)
<i>Orbiliomycetes-Leotiomyceta</i> split	<i>Arthrobotrys oligospora</i> ATCC 24927 – <i>Aspergillus niger</i> ATCC 1015	396	516	(Gueidan et al. 2011)
<i>Pezizomycetes-Leotiomyceta</i> split	<i>Tuber melanosporum</i> Mel28 – <i>Aspergillus niger</i> ATCC 1015	386	498	(Gueidan et al. 2011)
<i>Hypocreales</i> clade origin	<i>Nectria haematococca</i> MPVI – <i>Beauveria bassiana</i> ARSEF 2860	150	213	(Sung et al. 2008)
<i>Hypocreaceae-Clavicipitaceae</i> split	<i>Trichoderma atroviride</i> IMI 206040 – <i>Beauveria bassiana</i> ARSEF 2860	146	206	(Sung et al. 2008)
<i>Fusarium solani</i> clade origin	<i>Nectria haematococca</i> MPVI – <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> 4287	32	108	(O’Donnell et al. 2013)
<i>Dothideomycetes</i> clade origin	<i>Baudoinia compniacensis</i> UAMH 10762 – <i>Cochliobolus heterostrophus</i> ATCC 48331	248	354	(Gueidan et al. 2011)
<i>Mycosphaerellaceae</i> clade origin	<i>Dothistroma septosporum</i> NZE10 – <i>Zymoseptoria tritici</i> IPO323	87	117	(Ohm et al. 2012)
<i>Pleosporaceae</i> clade origin	<i>Pyrenophora teres</i> f. <i>teres</i> 0-1 – <i>Cochliobolus heterostrophus</i> ATCC 48331	17	23	(Ohm et al. 2012)
<i>Eurotiomycetes</i> clade origin	<i>Exophiala dermatitidis</i> NIH/UT8656 – <i>Aspergillus niger</i> ATCC 1015	293	391	(Gueidan et al. 2011)

References:

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