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Supplementary material

Natural substances as biocides in the fungi treatment on artistic products to protect the environment and health of restoration workers

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Supplementary Table 1S - Major fungal species and genera recorded on art works matrices. The names are those used by the original publications and do not follow the current Index Fungorum nomenclature (Modified from: Schmidt 2012).

Matrices	Species
Painting	<i>Aspergillus</i> (<i>A. flavus</i> , <i>A. niger</i> , <i>A. sydowii</i> , <i>A. versicolor</i>) - <i>Aureobasidium pullulans</i> - <i>Candida</i> spp. - <i>Chaetomium funicola</i> - <i>Cladosporium</i> (<i>C. herbarum</i> , <i>C. cladosporioides</i>) - <i>Eurotium</i> (<i>E. chevalieri</i> , <i>E. rubrum</i>) - <i>Fusarium</i> spp. - <i>Lipomyces starkeyi</i> - <i>Mucor</i> spp. - <i>Penicillium</i> (<i>P. chrysogenum</i> , <i>P. citrinum</i> , <i>P. decumbens</i>)
Paper, textile fibres (wool, silk, cotton, linen, jute, hemp)	<i>Acremonium</i> spp. - <i>Alternaria</i> spp. - <i>Aspergillus</i> (<i>A. clavatus</i> , <i>A. flavus</i> , <i>A. glaucus</i> , <i>A. terreus</i> , <i>A. repens</i> , <i>A. ruber</i> , <i>A. fumigatus</i> , <i>A. ochraceus</i> , <i>A. nidulans</i> , <i>A. niger</i>) - <i>Aureobasidium pullulans</i> - <i>Botrytis cinerea</i> - <i>Candida</i> spp. - <i>Chaetomium</i> (<i>C. globosum</i> , <i>C. elatum</i> , <i>C. indicum</i>) - <i>Cladosporium herbarum</i> - <i>Coniophora puteana</i> - <i>Coriolus versicolor</i> - <i>Epicoccum</i> spp. - <i>Eurotium amstelodami</i> - <i>Fusarium</i> spp. - <i>Heterobasidium annosum</i> - <i>Lipomyces starkeyi</i> - <i>Myrothecium verrucaria</i> - <i>Mucor</i> spp. - <i>Paecilomyces variotii</i> - <i>Penicillium</i> (<i>P. chrysogenum</i> , <i>P. funiculosum</i> , <i>P. purpurogenum</i> , <i>P. rubrum</i> , <i>P. variabile</i> , <i>P. spinulosum</i> , <i>P. vellutatum</i> , <i>P. frequentans</i> , <i>P. citrinum</i>) - <i>Phialocephala humicola</i> - <i>Pichia guilliermondi</i> - <i>Phoma medicaginis</i> - <i>Rhizopus oryzae</i> - <i>Stachybotrys chartarum</i> - <i>Toxicocladosporium irritans</i> - <i>Trichoderma</i> (<i>T. harzianum</i> , <i>T. viride</i>) - <i>Stemphilium</i> spp. - <i>Ulocladium</i> spp.
Parchment	<i>Acremonium</i> spp. - <i>Aspergillus</i> spp. - <i>Aureobasidium pullulans</i> - <i>Chaetomium</i> (<i>C. globosum</i> , <i>C. elatum</i> , <i>C. indicum</i>) - <i>Cladosporium cladosporioides</i> - <i>Epicoccum nigrum</i> - <i>Gymnoascus</i> - <i>Phlebiopsis gigantea</i> - <i>Penicillium chrysogenum</i> - <i>Thanatephorus cucumeris</i> - <i>Trichoderma</i> spp.
Keratinous substrates (leather, wool, feathers, fur, hair)	<i>Absidia</i> (<i>A. glauca</i> , <i>A. cylindrospora</i> , <i>A. spinosa</i>) - <i>Acremonium</i> spp. - <i>Alternaria alternata</i> - <i>Aspergillus</i> (<i>A. sydowii</i> , <i>A. candidus</i> , <i>A. clavatus</i> , <i>A. carneus</i> , <i>A. foetidus</i> , <i>A. flavus</i> , <i>A. fumigatus</i>) - <i>Arthroderma</i> spp. - <i>Aureobasidium pullulans</i> - <i>Chaetomium globosum</i> - <i>Chrysosporium</i> spp. - <i>Coniosporium</i> spp. - <i>Cladosporium cladosporioides</i> - <i>Cunninghamella echinulata</i> - <i>Epicoccum nigrum</i> - <i>Emericella</i> spp. - <i>Geotrichum candidum</i> - <i>Hortaea werneckii</i> - <i>Mucor</i> spp. - <i>Penicillium</i> (<i>P. brevicompactum</i> , <i>P. chrysogenum</i>) - <i>Phoma medicaginis</i> - <i>Scopulaiopsis</i> spp. - <i>Stachybotrys chartarum</i> - <i>Trichophyton</i> spp. - <i>Trichoderma</i> spp. - <i>Rhizopus</i> spp.
Stone material, fresco, malta, plaster, wood	<i>Alternaria alternata</i> - <i>Aureobasidium pullulans</i> - <i>Aspergillus</i> spp. (in particular <i>A. sulphureus</i>) - <i>Capnobotryella isiloglui</i> - <i>Cladosporium</i> spp. (in particular <i>C. herbarum</i>) - <i>Coniosporium</i> (<i>C. perforans</i> , <i>C. apollinis</i>) - <i>Epicoccum</i> spp. - <i>Exophiala</i> spp. - <i>Fusarium</i> spp. - <i>Hortaea werneckii</i> - <i>Myrothecium</i> spp. - <i>Knufia</i> spp. - <i>Penicillium</i> spp. - <i>Phoma medicaginis</i> - <i>Sarcinomyces petricola</i> - <i>Trimmatostroma</i> spp. - <i>Ulocladium</i> spp.

References

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