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<p>DILDIRA AGIYOTTA & LAMINA ABAROVA A checklist of powdery mildews (Erysiphaceae, Ascomycota) known from Azerbaijan..... 1</p> <p>MÓNICA I. MICHEL-VÁZQUEZ, DIEGO SERRANO, ROSA E. PÉREZ-PÉREZ & GERBERTO OCAMPO Lichenized fungi of the acid zones of central Mexico: new records for the country and the state of Aguascalientes..... 15</p> <p>MARTIN HASSAN PÉREZ-MARTÍN, LUIS A. LARA-PÉREZ, BRUNO TORO-CORTI, XICHENI MARQUEZ-VIVERA & ANTONIO ANDRÉS-TARRÉS Glomerosporota in Mexico, a country with very high richness... 23</p> <p>PETER P.G. VAN DEN BOM & ESTYVE L.J.P. <i>Bacidina celtica</i> (Bacidiales), a new lichen species from western Europe..... 65</p> <p>PAULA RIVERO-BLANO, ANDREA ACÚA-FONTECILLA, INÉS MARLENE ROSALES & LILIANA GONZ Non-conventional yeasts as biocontrol agents against fungal pathogens related to postharvest diseases..... 71</p> <p>SANJEET KUMAR VERMA, SANJAY YADAV, GANESH SENGU & RAJENDRAN SENGI <i>Pseudocercospora cypripodici</i>, a new <i>Stigmata</i>-like <i>Pseudocercospora</i> species on <i>Acer cappadocicum</i> from India..... 79</p> <p>MASOUD MAZARIERI THERANI, MEHDI NASH ESTAFANI, AMIR MOHAMMAD, FOROOSH MONTAZAMBEHRAN & MOHAMMAD HOSSEIN AZIZ Morphogenetic characteristics and response of novel <i>Isia</i> hybrids to root rot disease caused by <i>Fusarium oxysporum</i> f. sp. <i>glaberrim</i>..... 93</p> <p>ZANNA ZOLFAGHARY, MEHDI NASH ESTAFANI, KAMRANOD NOURI-LAMI & HAMID AKBARBEHRAN Genetic diversity and virulence of <i>Drepanis Bipolaris aso-bisiana</i> isolates causing common foot rot disease of wheat... 107</p> <p>EMINE İKİZİM & SERRA İLHAN Diversity of Monilicaceous Fungi in Çarşılı Saltren, İzmir, Turkey..... 121</p> <p>GERTIN SAGINA Scanning electron microscopic and energy dispersive X-ray spectroscopic studies of <i>Drechslera consociata</i>, an endoparasitic dematiaceous fungus..... 133</p> <p>JUNSEI CHOI, HAFIZ SOBHAN AHMED SAIEB, KOREN SCYHO ACUTE, FEIYING YANG, XIANG WU, XIANGFENG XU, LIANG WANG, MARK S. GOETTEL, MINGMING YOU & GEORGY M. GUSEV Drivers of the taxonomic and functional diversity, and functional composition of fungal endophyte communities in citrus..... 143</p> <p>SUNYA PANDAY V., SUNITA JANDAKI, SUNITA CHANDOL, SAJESH KUMAR, RAJENDRAN DASAR, RAJENDRAN SINGH JARIAL & KAMLESH JARIAL Evaluation of agroforestry waste for cultivation of wood ear mushroom (<i>Auricularia polytricha</i>) and its anticancer activity..... 153</p> <p>PETER DOMBROVA, ARNEKLO BENSCHLEN, JAN ECKSTEIN & ANDRIS GROSS <i>Helianthium euroniforme</i> Rehm (Helotiales), a highly specialized helianthoid ascomycete on Orthotrichaceae and <i>Leucodon</i>... 163</p> <p>STEVEN L. STEPHENSON & YURI K. NOVOSHELOV Coprophilous trypoxystoites associated with herbivore dung in the northern Rocky Mountains..... 175</p> <p>STEVE SWANSTEIN, KAREENA SYNGE, JAMES K. DOUGL, RICHARD M. ROBINSON & TOM W. MAY "The Moldy Marshmallow" <i>Asmarodon carpalococcus</i> (Thelephorales, Basidiomycota) – the first stipitate species in the genus <i>Asmarodon</i>..... 181</p>	<p>RENÉE LIBERT, ALINA V. ALEXANDROVA, AGUSTIN CERRA-MENDOZA, MIKE ANDERSON CORRALES-GUAYN, GLADSTONE ALVES DA SILVA, ANA MARIA DE LA SOUZA-RICHES, BELINTI DIMA, VARESILO PYSY-SOULL, MICHAEL GUILAS, JUAN CARLOS GUERRERO-ARAU, YVES LAPOURTEUX, JACQUES LANDRY, ANDRE MILIC, OLGA V. MOROSOVA, MACHIEL ERNST NOORDHOFF, FRIEDRICH OBERL, ANDRE PAUL, THI HA GIANG PHAM, ELIAS POLEKOS, VIVIANE MONIQUE SANTOS, TATIANA YU. SYVESHINA, ZORAN TRALČIĆ, ANELA VALLEJÓN-TAPALLERA, JORGE VILA, GEORGE I. ZETINAKI, HANS-OTTO BAKAL, TATIANA BULBOVSKAYA, LYUVIMELA KALININA, IRENEADO KIRIAN-GRELLERUSA, EKATERINA MALYSHEVA, JOHAN MUYSEK, KAME PARTI, MARIA PERONANE, JOFFREY K. SWALLMAN & DANNY HALLGREN Fungal Systematics and Evolution: FUSE 8..... 193</p> <p>REGA HEAL, MEHDI NASH ESTAFANI, MOHITH MALIK & ERIZAPILLAI SIDDAGATTAR Comparative analysis of putative pathogenesis-related gene expression in potato associated with defense responses to <i>Rhizoctonia solani</i>..... 251</p> <p>RICARDO TAMAYO-CIVALLER & XAVIER ALVAREZ-MONTERO A preliminary checklist of lignicolous maritine fungi from Ecuador and South America..... 263</p> <p>ROBARTO GREGORIO-COPIRANO, ERICAN DE LUNA & DOLORES GONZALEZ An assay for the quantification of pathogenicity and virulence of two strains of <i>Podophthora juruensis</i> (Erysiphaceae) on different hosts from digital images..... 277</p> <p>NABEH ALIYAN MARMAGHANI, HOSSEIN KAREMI, MOHAMMAD JAVAN-NOURI, SOPEH DE ROUFINA, ELISA PANTO, MAURO TOROJILA Endophytic <i>Cephalotrichum</i> spp. from <i>Solanum tuberosum</i> (potato) in Iran – a polyphasic analysis..... 287</p> <p>MAREJA GOMES DA SILVA SANTOS, MAREJA DE HOLANDA CEREALCANTI MACIEL, MIKELLI ALBUQUERQUE SOUSA, ALINE GLEICE JULIAO BONDIM, JADSON DIOGO PEREIRA BEZERRA, ADALBERTO PEREIRA JUNIOR & CRISTINA MARIA DE SOUZA-MOTA Characterization and partial purification of L-asparaginase produced by endophytic fungi from citrus <i>Citrus aurantium</i>... 303</p> <p>TYNEN T.H. DO, DU H. NGUYEN, SYLVIN L. SIEPENSCH & HANG T.M. TRAN Antioxidant and antiproliferative activities of intracellular polysaccharides extracted from plasmodia of <i>Physarum polycephalum</i> and <i>Physarum oblongum</i>..... 315</p> <p>RAMINDER GOUD ARSOLA, PINKY KUMAR PILLERA, NEERAJA CHEKKUPILLA, RAHA KISHINA KANGHA, PANDHARAJ SETHAK, ARELLAY S. SARRA, VENKATESHWARA RAO KRISHNAN & DAMIRENTHA REITH VYDOR Identification of ergosterol peroxide in the endophytic fungus <i>Pyralotriopsis microspora</i> and evaluation of its efficacy in overcoming cancer drug resistance..... 327</p> <p>MAARTEN LUISERS, GERT E.M. LAMERS, ANDRE DE KIESEL, OLDŘICH NEJEDL, MENNO SCHULTZSTEIN & DANNY HALLGREN Bacterial biofilms on thalli of <i>Laobolobesiales</i>: a co-occurrence uncovered..... 335</p> <p>SHEBA BAGHERABADI & DOUSTMOJIB ZAFARI <i>Kilwardia variipora</i>, a fungal pathogen newly associated with decline of walnut trees in Iran..... 343</p> <p>Taxonomic novelties in Sydowia 74, 2022..... II</p>
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A preliminary checklist of lignicolous marine fungi from Ecuador and South America

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Tamayo-Cevallos R. & Álvarez-Montero X. (2021) A preliminary checklist of lignicolous marine fungi from Ecuador and

South America. – Sydowia 74: 263–275.

This paper presents a checklist on marine fungi from South America and Ecuador based on field collections during 2008–2009

and 2019–2020 in two mangrove ecosystems of the Ecuadorian coasts and an exhaustive review of relevant literature on marine

fungi in South America. The present checklist contains updated names of the species reported for this part of the world and host,

substrate, and collection site. One hundred twenty-three species are reported for South America: the Microascales and Pleosporales

were the most dominant orders, with 69 species distributed in ten families. For Ecuador, 42 species are registered based on

literature and our collections. Multivariate analysis revealed that the two mangrove ecosystems are not similar,

corroborating the
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Netzwerktest. The biodiversity of marine fungi for Ecuador is 3.572 and 9.257 for the Shannon and Margalef
Index, respectively.

The biodiversity of marine fungi in South America is similar to that reported in other tropical and temperate zones.
Keywords: Fungal biodiversity, mangrove ecosystem, host, driftwood, Ascomycota, Basidiomycota, marine
ecosystems.



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