

List of publications

22nd June 2011

Gábor M. Kovács *

BOOKS, BOOK CHAPTERS

Kottke, I., Kovács, G. M. 2012. Mycorrhizae – rhizosphere determinants of plant communities. *In*: Eshel, A., Breeckman, T. (eds): Plant Roots. The Hidden Half. CRC Press, Taylor & Francis Group (to be published: 2012)

Bóka, K., Kósa, A., Kovács, G. M., Preininger, É., Solymosi, K., Vági P. 2010. Plant Anatomy Practice – II. Nemzeti Tankönyv Kiadó, [university textbook in Hungarian, GMK's part: fungi pp 55-98]

ARTICLES:

2011

Kovács, G. M.*, Balázs, T. K., Calonge, F. D. Martín, M. P.: The diversity of *Terfezia* desert truffles: new species and a highly variable species complex with intrasporocarpic nrDNA ITS heterogeneity. *Mycologia* (in press)

Kovács, G. M.*, Trappe, J. M., Alsheikh, A. M., Hansen, K., Healy, R. A., Vági, P. 2011. *Terfezia* disappears from the American truffle mycota as two new genera and *Mattirolomyces* species emerge. *Mycologia* (in press)

Kovács, G. M., Jankovics, T., Kiss, L. 2011 Variation in the nrDNA ITS sequences of some powdery mildew species: Do routine molecular identification procedures hide valuable information? *European Journal of Plant Pathology* (in press)

Nagy, G. L., Petkovics, T., Kovács, G. M., Voigt, K., Vágvölgyi, Cs., Papp, T. 2011. Where is the unseen fungal diversity hidden? A study of *Mortierella* reveals a high contribution of reference collections to the identification of fungal environmental sequences. *New Phytologist* (in press)

Kiss, L., Pintye, A., Kovács, G. M., Jankovics, T., Fontaine, M. C., Harvey, N., Xu, X., Nicot, P. C., Bardin, B., Shykoff, J. A., Giraud, T. 2011. Temporal isolation explains host-related genetic differentiation in a group of widespread mycoparasitic fungi. *Molecular Ecology* (in press)

Seress, D., Kovács, G. M., Jakucs, E. 2011. *Cortinarius saturninus* (Fr.) Fr.+ *Salix alba* L. – *Descriptions of Ectomycorrhizae* (in press)

Bakonyi, J., Vajna, L., Szeredi, A., Tímár, E., Kovács, G. M., Csósz, M., Varga, A. 2011. First Report of *Sclerotium cepivorum* causing white rot of garlic in Hungary. *New Disease Reports* **23**: 5.

2010

Trappe, J. M., Kovács, G. M., Claridge, A. W. 2010. Comparative taxonomy of desert truffles of the Australian Outback and African Kalahari. *Mycological Progress* **9**: 131-143.

Trappe, J. M., Kovács, G. M., Claridge, A. W. 2010. Validation of the new combination *Mattirolomyces austroafricanus*. *Mycological Progress* **9**: 145.

Healy, R. A., Kovács, G. M.* 2010. Ultrastructural observations on the ascomata and ascospores of the truffle *Mattirolomyces terfezioides*. *Botany* **88**: 85-92.

Lőrincz, L., Preininger, É., Kósa, A., Pónyi, T., Nyitrai, P., Sarkadi, L., Kovács, G. M., Böddi, B., Gyurján I. 2010: Artificial tripartite symbiosis involving a green alga (*Chlamydomonas*), a bacterium (*Azotobacter*) and a fungus (*Alternaria*): morphological and physiological characterization. *Folia Microbiologica* **55**: 393-400.

Błaszczkowski, J., Kovács, G. M., Balázs, K. T., Orłowska, E., Sadravi, M., Wubet, T., Buscot, F. 2010: *Glomus africanum* and *G. iranicum*, two new species of arbuscular mycorrhizal fungi (Glomeromycota). *Mycologia* **102**: 1450-1462.

· I have been using the name 'Gábor M. Kovács' in publications since 2000

* corresponding author

Knapp, G. D., Kovács, G. M. 2010. Study of root colonising endophytic fungi of *Medicago minima* in a semiarid sandy grassland area near Fülöpháza. *Mikológiai Közlemények – Clusiana* **49**: 67-77 [in Hungarian]

Seress, D., Kovács, G. M. 2010. Alien ectomycorrhizal fungi in a semiarid sandy grassland area near Fülöpháza. *Mikológiai Közlemények – Clusiana* **49**: 121-137 [in Hungarian]

2009

Kovács, G. M.*, Martín, M. P., Calonge F. D. 2009. First record of *Mattirolomyces terfezioides* from the Iberian Peninsula: its southern- and westernmost locality. *Mycotaxon* **110**: 235-330.

Błaszczkowski, J., Ryszka, P., Koegel, S., Wiemken, A., Oehl, F., Kovács, G. M., Redecker, D. 2009. *Glomus achrum* and *G. bistratum*, two new species of arbuscular mycorrhizal fungi (Glomeromycota). *Botany* **87**: 260-271.

Błaszczkowski, J., Kovács, G. M., Balázs, T. 2009. *Glomus perpusillum*, a new arbuscular mycorrhizal fungus. *Mycologia* **101**: 247-255

2008

Kovács, G. M.*, Trappe, J. M., Alsheikh, A. M., Bóka, K., Elliott, T. F. 2008. *Imaia*, a new truffle genus to accommodate *Terfezia gigantea*. *Mycologia* **100**: 930-939.

Kovács, G. M. 2008: Review of the mycorrhizal status data for the Hungarian flora. Why are these results important? *Kitaibelia* **13**: 62-73. [in Hungarian]

Erős-Honti Zs., Kovács, G. M., Szedlay, Gy., Jakucs, E. 2008. Morphological and molecular characterization of *Humaria* and *Genea* ectomycorrhizae from Hungarian deciduous forests. *Mycorrhiza* **18**: 133-143.

Erős-Honti Zs., Jakucs, E., Kovács, G. M. 2008. “*Helianthemirhiza ochraceobrunnescens*” + *Helianthemum canum* (L.) Baumg.. *Descriptions of Ectomycorrhizae* **11/12**: 71-75.

Kiss, L., Jankovics, T., Kovács, G. M., Daughtery, M. L. 2008. *Oidium longipes*, a new powdery mildew fungus on petunia in the USA: a potential threat to ornamental and vegetable solanaceous crops. *Plant Disease* **92**: 818-825.

Jankovics, T., Bai, Y., Kovács, G. M., Bardin, M., Nicot, P. C., Toyoda, H., Matsuda, Y., Nils R. E., Kiss, L. 2008. *Oidium neolycopersici*: Intra-specific variability inferred from AFLP analysis and relationship with closely related powdery mildew fungi infecting various plant species. *Phytopathology* **98**: 529-540.

2007

Kovács, G. M.*, Balázs, T., Péntes, Zs. 2007: Molecular study of the arbuscular mycorrhizal fungi colonizing the sporophyte of the eusporangiate rattlesnake fern (*Botrychium virginianum*, Ophioglossaceae). *Mycorrhiza* **17**: 597–605.

Kovács, G. M.*, Jakucs, E., Bagi, I. 2007. Identification of host plants and description of sclerotia of the truffle *Mattirolomyces terfezioides*. *Mycological Progress* **6**: 19-26.

Szomor, K. N., Dencs, Á., Tóth, G., Kovács, G. M., Saleh Ali, Y., Berencsi, G., Takács, M. 2007. Variability of the PreS1/PreS2/S regions of hepatitis B virus in Hungary. *Archives of Virology* **152**: 697-704.

Vági, P., Kovács, G. M., Kiss, L. 2007: Host range expansion in a powdery mildew fungus (*Golovinomyces* sp.) infecting *Arabidopsis thaliana*: *Torenia fournieri* as a new host. *European Journal of Plant Pathology* **117**: 89-93.

Liang, C., Yang, J., Kovács, G. M., Szentiványi, O., Li, B., Xu, X. M., Kiss, L. 2007: High genetic diversity of *Ampelomyces* mycoparasites isolated from different powdery mildew fungi in China. *Fungal Diversity* **24**: 225-240.

2006

Kovács, G. M.*, Jakucs, E. 2006: Morphological and molecular comparison of white truffle ectomycorrhizae. *Mycorrhiza* **16**: 567-574.

2005

Jakucs, E., Kovács, G. M., Szedlay, Gy., Erős-Honti Zs. 2005: Morphological and molecular diversity and abundance of tomentelloid ectomycorrhizae in broad-leaved forests of the Hungarian Plain. *Mycorrhiza* **15**: 459-470.

Jakucs, E., Kovács, G. M., Agerer, R., Romsics, Cs., Erős-Honti Zs. 2005: Morphological-anatomical characterization and molecular identification of *Tomentella stuposa* ectomycorrhizae and related anatomotypes. *Mycorrhiza* **15**: 247-258.

Kovács, G. M.*, Harrach, B., Zakhartchouk, A. N., Davison, A. J. 2005: The complete genome sequence of simian adenovirus 1 – an Old World monkey adenovirus with two fiber genes. *Journal of General Virology* **86**: 1681-1686.

Szentiványi, O., Kiss, L., Russell, J. C., Kovács, G. M., Varga, K., Jankovics, T., Lesemann, S., Xu, X-M., Jeffries, P. 2005: Ampelomyces mycoparasites from apple powdery mildew are identified as a distinct group based on single-stranded conformation polymorphism analysis of the rDNA ITS region. *Mycological Research* **109**: 429-438.

2004

Kovács, G. M.*, Davison, A. J., Zakhartchouk, A. N., Harrach, B. 2004: Analysis of the first complete genome sequence of an Old World monkey adenovirus reveals a lineage distinct from the six human adenovirus species. *Journal of General Virology* **85**: 2799-2807.

2003

Kovács, G. M.*, Kottke, I., Oberwinkler, F. 2003: Light and electron microscopic study on the mycorrhizae of sporophytes of *Botrychium virginianum* – arbuscular structures resembling fossil forms. *Plant Biology* **5**: 574-580.

Kovács, G. M.*, LaPatra, S. E., D'Halluin, J. C., Benkő, M. 2003: Phylogenetic analysis of the hexon and protease genes of a fish adenovirus isolated from white sturgeon (*Acipenser transmontanus*) supports the proposal for a new adenovirus genus. *Virus research* **98**: 27-34.

Kovács, G. M.*, Vágvölgyi, Cs., Oberwinkler, F. 2003. *In vitro* interaction of the truffle *Terfezia terfezioides* with *Robinia pseudoacacia* and *Helianthemum ovatum*. *Folia Microbiologica* **48**: 369-378.

Élő, P., Farkas, Sz. L., Dán, Á., Kovács, G. M. 2003: The p32K structural protein of the atadenovirus might have bacterial relatives. *Journal of Molecular Evolution* **56**: 175-180.

2002

Kovács, G. M.*, Szigetvári, Cs. 2002: Mycorrhizae and other root-associated fungal structures of the plants of a sandy grassland on the Great Hungarian Plain. *Phyton – Annales Rei Botanicae* **42**: 211-223.

Kovács, G. M.*, Jakucs, E., Manjón, J. L., Esteve-Raventós, F., Díez, J. 2002: *Cortinarius hinnuleus* Fr. + *Betula celtiberica* Rothm. et Vasc. *Descriptions of Ectomycorrhizae* **6**: 7-11.

Pénzes, Zs., Csanádi, Gy., Kovács, G. M., Beer, Zs. 2002: Molecular markers in ecology. *Tiscia* **33**: 9-30.

2001

Kovács, G. M.*, Jakucs, E. 2001: “*Helianthemirhiza hirsuta*” + *Helianthemum ovatum* (Viv.) Dun.. *Descriptions of Ectomycorrhizae* **5**: 49-53.

Kovács, G. M.*, Rudnóy, Sz., Vágvölgyi, Cs., Lásztity, D., Rácz, I., Bratek, Z. 2001: Intraspecific invariability of the ITS region of rDNA of *Terfezia terfezioides* in Europe. *Folia Microbiologica* **46**: 423-426.

Kovács, G. M.*, Bagi, I. 2001: Mycorrhizal status of a mixed deciduous forest from the Great Hungarian Plain with special emphasis on the potential mycorrhizal partners of *Terfezia terfezioides* (Matt.) Trappe. *Phyton – Annales Rei Botanicae* **41**: 161-168.

2000

Díez, J, Manjón, J.L., Kovács, G. M., Celestino, C., Toribio, M. 2000: Mycorrhization of vitroplants raised from somatic embryos of cork oak (*Quercus suber* L.). *Applied Soil Ecology* **15**: 119-123.

Kovács, M. G. 2000: Anatomical study of the mycorrhizae of the sporophyte of *Botrychium virginianum* (L.) Sw. *Mikológiai Közlemények- Clusiana* **39**: 7-14. [in Hungarian]

1999

Précsényi, I., Kovács, G., Bagi, I. 1999-2000: Information theoretical study of the vegetation maps. I. Motivation and illustration. *Botanikai Közlemények* **86-87**: 51-56. [in Hungarian]

1998

Bagi, I., Kovács, G. 1998: Distribution of plant nutrients in the seeds and shoots of *Chenopodium rubrum* L. var. *pusillum* Hausskn. along an environmental gradient. *Acta Biologica Szegediensis* **43**: 49-61.

Bagi, I., Kovács, G. 1998: Distribution of plant nutrients in the seeds and shoots of *Chenopodium rubrum* L. var. *pusillum* Hausskn. along an environmental gradient. *Acta Biologica Szegediensis* **43**: 49-61.

Bagi, I., Kovács, G., Székely, Á. 1998: The occurrence of *Crocus reticulatus* Stev. in the "holdrutás" forest by Kunfehértó. *Kitaibelia* **3** (2): 231-233. [in Hungarian]

Kovács, G. 1998: The spore size analysis of *Coprinus micaceus* /Bull.:Fr./ Fr. *Mikológiai Közlemények - Clusiana* **37**(1-3): 29-40. [in Hungarian]

1997

Kovács, G. 1997: The study of the change of the spore size and shape during the ripening in the case of the shaggy ink cap (*Coprinus comatus* /Müll.:Fr./ S. F. Gray). *Mikológiai Közlemények - Clusiana* **36**(2-3): 5-12. [in Hungarian]

PROCEEDINGS:

Kovács, G. M., Kottke, I., Oberwinkler, F. 2006. Light and electron microscopic study on the mycorrhizae of mature sporophytes of *Botrychium virginianum*. XII. Hungarian Plant Anatomical Symposium. Proceedings. JATE Press, Szeged, pp: 163-168. [lecture; in Hungarian, with English summary]

Harrach, B., Kovács, G. M., Farkas, S. L., Élő, P., Angyal, O., Davison, A. J., Zakhartchouk, A., Kidd, A., Benkő, M. 2003: Molecular evolution of adenoviruses. Proceedings of the 6th International Congress of Veterinary Virology, Saint Malo, Franciaország, p. 160 [lecture]

Kovács, G. M., Bagi, I., Vágvolgyi, Cs., Kottke, I., Oberwinkler, F. 2002: Studies on the root associations of the truffle *Terfezia terfezioides*. 2nd. Hungarian Conference of Mycology, Szeged, *Acta Microbiologica et Immunologica Hungarica*, **49**: 207-213. [lecture]