

Dr. Pócsi István mikotoxinokkal és mikotoxinokat termelő gombákkal kapcsolatos tudományos közleményei

Könyvfejezetek:

1. **Emri**, T., Zalka, A. and **Pócsi, I.** (2017) Detection of transcriptionally active mycotoxin gene clusters: DNA microarray. *Mycotoxigenic Fungi: Methods and Protocols* (Moretti, A. and Susca, A., Eds.), Springer Science+Business Media, New York, pp. 345-365.
2. Pusztahelyi, T., Holb, I.J. and **Pócsi, I.** (2017) Plant-fungal interactions: special secondary metabolites of the biotrophic, necrotrophic, and other specific interactions. *Fungal Metabolites* (Mérillon, J.M. and Ramawat, K.G., Eds.), Springer International Publishing Switzerland, pp. 133-190.

Tudományos cikkek:

1. Tóth, V., Nagy, T.Cs., Miskei, M., **Pócsi, I.** and **Emri**, T. (2011) Polyphasic characterization of “*Aspergillus nidulans* var. *roseus*” ATCC 58397. *Folia Microbiol.* **56**, 381-388. **Impact factor: 0,677**
2. Tóth, V., Nagy, C.T., **Pócsi, I.** and **Emri**, T. (2012) The echinocandin B producer fungus *Aspergillus nidulans* var. *roseus* ATCC 58397 does not possess innate resistance against its lipopeptide antimycotic. *Appl. Microbiol. Biotechnol.* **95**, 113-122. **Impact factor: 3,689**
3. Yin, W.B., Reinke, A.W., Szilágyi, M., Emri, T., Chiang, Y.M., Keating, A.E., **Pócsi, I.**, Wang, C.C.C. and Keller, N.P. (2013) bZIP transcription factors affecting secondary metabolism, sexual development and stress responses in *Aspergillus nidulans*. *Microbiology – SGM* **159**, 77-88. **Impact factor: 2,835**
4. Szilágyi, M., Miskei, M., Karányi, Z., Lenkey, B., **Pócsi, I.** and Emri, T. (2013) Transcriptome changes initiated by carbon starvation in *Aspergillus nidulans*. *Microbiology – SGM* **159**, 176-190. **Impact factor: 2,835**
5. Nagygyörgy, E.D., Kovács, B., Leiter, É., Miskei, M., **Pócsi, I.**, **Hornok**, L. and Ádám, A.L. (2014) Toxicity of abiotic stressors to *Fusarium* species: differences in hydrogen peroxide and fungicide tolerance. *Acta Microbiol. Immunol. Hung.* **61**, 189-208. **Impact factor: 0,778**
6. Pfliegler, W.P., Pusztahelyi, T. and **Pócsi, I.** (2015) Mycotoxins – prevention and decontamination by yeasts. *J. Basic Microbiol.* **55**, 805-818. **Impact factor 1,585**
7. **Emri**, T., Szarvas, V., Orosz, E., Antal, K., Park, H.S., Han, K.H., Yu, J.H. and **Pócsi, I.** (2015) Core oxidative stress response in *Aspergillus nidulans*. *BMC Genomics* **16**, Article No.: 478. **Impact factor 3,867**
8. Pusztahelyi, T., Holb, I.J. and **Pócsi, I.** (2015) Secondary metabolites in fungus-plant interactions. *Front. Plant Sci.* **6**, Article No.: 573. **Impact factor 4,495**
9. **Leiter**, É., Park, H.S., Kwon, N.J., Emri, T., Oláh, V., Mészáros, I., Dienes, B., Vincze, J., Csernoch, L., Yum J.H. and **Pócsi, I.** (2016) Characterization of the *aodA*, *mnSOD*, *dnmA* and *pimA* genes in *Aspergillus nidulans*. *Sci. Rep.* **6**, Article No.: 20523. **Impact factor 4,259**
10. de Vries, R.P., Riley, R., Ad Wiebenga, A., Aguilar-Osorio, G., Amillis, S., Akemi Uchima, C., Anderluh, G., Asadollahi, M., Askin, M., Barry, K., Battaglia, E., Bayram, Ö., Benocci, T., Braus-Stromeyer, S.A., Caldana, C., Cánovas, D., Cerqueira, G.C., Chen, F., Chen, W., Choi, C., Clum, A., Corrêa dos Santos, R.A., de Lima Damásio, A.R., Diallinas, G., Emri, T., Fekete, E., Flipphi, M., Freyberg, S., Gallo, A., Gournas, C., Habgood, R., Hainaut, M., Harispe, M.L., Henrissat, B., Hildén, K.S., Hope, R., Hossain, A., Karabika, E., Karaffa, L., Karányi, Z., Kraševac, N., Kuo, A., Kusch, H., LaButti, K., Lagendijk, E.L., Lapidus, A., Levasseur, A., Lindquist, E., Lipzen, A., Logrieco, A.F., MacCabe, A., Mäkelä, M.R., Malavazi, I., Melin, P., Meyer, V., Mielnichuk, N., Miskei, M., Molnár, Á.P., Mulé, G., Ngan, C.Y., Orejas, M., Orosz, E., Ouedraogo, J.P., Overkamp, K.M., Park, H.S., Perrone, G., Piumi, F., Punt, P.J., Ram, A.F.J., Ramón, A., Rauscher, S., Record, E., Riaño-Pachón, D.M., Robert, V., Röhrig, J., Ruller, R., Salamov, A., Salih, N.S., Samson, R.A., Sándor, E., Sanguinetti, M., Schütze, T., Sepčić, K., Shelest, E., Sherlock, G., Sophianopoulou, V., Squina, F.M., Sun, H., Susca, A., Todd, R.B., Tsang, A., Unkles, S.E., van de Wiele, N., van Rossen-Uffink, D., Velasco de Castro Oliveira, J., Vesth, T.C., Visser, J., Yu, J.H., Zhou, M., Andersen, M.R., Archer, D.B., Baker, S.E., Benoit, I., Brakhage, A.A., Braus, G.H., Fischer, R., Frisvad, J.C., Goldman, G.H., Houbaken, J., Oakley, B., **Pócsi, I.**, Scazzocchio, C., Seiboth, B., vanKuyk, P.A., Wortman, J.R., Dyer, P.S. and Grigoriev, I.V. (2017) Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus *Aspergillus*. *Genome Biol.* **18**, Article No.: 28. **Impact factor: 13,214**
11. Pusztahelyi, T., Radócz, L., Gellért, C., Kovács, S., Szabó, Z., **Pócsi, I.** and Vad, A. (2017) Effect of preventive and curative fungicide treatment on *Fusarium proliferatum* infected maize – a field trial. *Acta Phytopathol. Entomol. Hung.* **52**, 29-38.
12. **Pócsi, I.**, Király, G. and Bánfalvi, G. (2018) Antineoplastic potential of mycotoxins. *Acta Microbiol. Immunol. Hung.* **65**, 267-307. **Impact factor: 1.079**

13. Orosz, E., van de Wiele, N., Emri, T., Zhou, M., Robert, V., de Vries, R.P. and **Pócsi, I.** (2018) Fungal Stress Database (FSD) – a repository of fungal stress physiological data. *Database* **2018**, Article ID: bay009.
Impact factor 3.683
14. Kozák, L., Szilágyi, Z., Vágó, B., Kakuk, A., Tóth, L., Molnár, I. and **Pócsi, I.** (2018) Inactivation of the indole-diterpene biosynthetic gene cluster of *Claviceps paspali* by *Agrobacterium*-mediated gene replacement. *Appl. Microbiol. Biotechnol.* **102**, 3255-3266.
Impact factor 3.670
15. Emri, T., Antal, K., Riley, R., Karányi, Zs., Miskei, M., Orosz, E., Baker, S.E., Wiebenga, A., de Vries, R.P. and **Pócsi, I.** (2018) Duplications and losses of genes encoding known elements of the stress defense system of the Aspergilli contribute to the evolution of these filamentous fungi but do not directly influence their environmental stress tolerance. *Stud. Mycol.* **91**, 23-36.
Impact factor 9.206
16. Kozák, L., Szilágyi, Z., Tóth, L., **Pócsi, I.** and Molnár, I. (2019) Tremorgenic and neurotoxic paspaline-derived indole-diterpenes: biosynthetic diversity, threats and applications. *Appl. Microbiol. Biotechnol.* **103**, 1599-1616.
Impact factor 3.530
17. Peles, F., Sipos, P., Győri, Z., Pfliegler, W.P., Giacometti, F., Serraino, A., Pagliuca, G., Gazzotti, T. and **Pócsi, I.** (2019) Adverse effects, transformation and channeling of aflatoxins into food raw materials in livestock. *Front. Microbiol.* **10**, Article No.: 2861.
Impact factor 4.235
18. Ráduly, Zs., Szabó, L., Madar, A., **Pócsi, I.** and Csernoch, L. (2020) Toxicological and medical aspects of *Aspergillus*-derived mycotoxins entering the feed and food chain. *Front. Microbiol.* **10**, Article No.: 2908.
Impact factor 5.640
19. Pfliegler, V.P., **Pócsi, I.**, Győri, Z. and Pusztahelyi, T. (2020) The Aspergilli and their mycotoxins: interactions with plants and the soil biota. *Front. Microbiol.* **10**, Article No.: 2921.
Impact factor 5.640
20. Kozák, L., Szilágyi, Z., Tóth, L., **Pócsi, I.** and Molnár, I. (2020) Functional characterization of the *idtF* and *idtP* genes in the *Claviceps paspali* indole diterpene biosynthetic gene cluster. *Folia Microbiol.* **65**, 605-613.
Impact factor 2.099
21. Király, A., Hámori, Cs., Gyémánt, Gy., Kövér, K.E., **Pócsi, I.** and Leiter, É. (2020) Characterization of *gfdB*, putatively encoding a glycerol 3-phosphate dehydrogenase in *Aspergillus nidulans*. *Fung. Biol.* **124**, 352-360.
Impact factor 3.099
22. Antal, K., Gila, Cs.B., **Pócsi, I.** and Emri, T. (2020) General stress response or adaptation to rapid growth in *Aspergillus nidulans*? *Fung. Biol.* **124**, 376-386.
Impact factor 3.099
23. Szabó, Zs., Pákozdi, K., Murvai, K., Pusztahelyi, T., Kecskeméti, Á., Gáspár, A., Logrieco, A.F., Emri, T., Ádám, A.L., Leiter, É., **Hornok, L.** and **Pócsi, I.** (2020) *FvatfA* regulates growth, stress tolerance as well as mycotoxin and pigment productions in *Fusarium verticillioides*. *Appl. Microbiol. Biotechnol.* **104**, 7879-7899.
Impact factor 4.813
24. Kecskeméti, Á., Nagy, C., Biró, P., Szabó, Zs., **Pócsi, I.**, Bartók, T. and Gáspár, A. (2020) Analysis of fumonisin mycotoxins with capillary electrophoresis – mass spectrometry. *Food Addit. Contam. Part A* **37**, 1553-1563.
Impact factor 3.057
25. **Pócsi, I.**, Giacometti, F., Ambrus, Á. and Logrieco, A.F. (2020) Editorial: *Aspergillus*-derived mycotoxins in the feed and food chain. *Front. Microbiol.* **11**, Article No.: 606108.
Impact factor 5.640
26. Szabó, Zs., Pákozdi, K., Murvai, K., Kecskeméti, Á., Oláh, V., Logrieco, A.F., Madar, A., Dienes, B., Csernoch, L., Emri, T., **Hornok, L.**, **Pócsi, I.** and Leiter, É. (2020) *FvmnSOD* is involved in oxidative stress defence, mitochondrial stability and apoptosis prevention in *Fusarium verticillioides*. *J. Basic Microbiol.* **60**, 994-1003.
Impact factor 2.281
27. Dövényi-Nagy, T., Rácz, Cs., Molnár, K., Bakó, K., Szláma, Sz., Józwiak, J., Farkas, Zs., **Pócsi, I.** and Dobos, A.Cs. (2020) Pre-harvest modelling and mitigation of aflatoxins in maize in a changing climatic environment – a review. *Toxins* **12**, Article No.: 768.
Impact factor 4.546
28. Peles, F., Sipos, P., Kovács, Sz., Győri, Z., **Pócsi, I.** and Pusztahelyi, T. (2021) Biological control and mitigation of aflatoxin contamination in commodities. *Toxins* **13**, Article No.: 104.
Impact factor 4.546
29. Gila, B., Moon, H., Antal, K., Hajdu, M., Kovács, R., Jónás, A., Pusztahelyi, T., Ju, J.H., **Pócsi, I.** and Emri, T. (2021) DUG pathway governs degradation of intracellular glutathione in *Aspergillus nidulans*. *Appl. Environ. Microbiol.* **87**, Article No.: e01321-20.
Impact factor 4.792
30. Sipos, P., Peles, F., Brassó, D.L., Béri, B., Pusztahelyi, T., **Pócsi, I.** and Győri, Z. (2021) Physical and chemical methods for reduction of aflatoxin content of feed and food. *Toxins* **13**, Article No.: 204.
Impact factor 4.546
31. **Leiter, É.**, Emri, T., Pákozdi, K., **Hornok, L.** and **Pócsi, I.** (2021) Impact of bZIP Atf1 ortholog global regulators in fungi. *Appl. Microbiol. Biotechnol.* **105**, 5769-5783.
Impact factor 4.813
32. Bárány, B., Yin, W.B., Dienes, B., Nagy, T., Leiter, É., Emri, T., Keller, N.P. and **Pócsi, I.** (2021) Study on the bZIP-type transcription factors NapA and RsmA in the regulation of intracellular reactive species levels

and sterigmatocystin production of *Aspergillus nidulans*. *Int. J. Mol. Sci.* **22**, Article No.: 11577.

Impact factor 5.923

33. Ráduly, Zs., Price, R.G., Dockrell, M.E.C., Csernoch, L. and Pócsi, I. (2021) Urinary biomarkers of mycotoxin induced nephrotoxicity – current status and expected future trends. *Toxins* **13**, Article No.: 848.

Impact factor 4.546

34. Papp, L.A., Horváth, E., Peles, F., Pócsi, I. and Miklós, I. (2021) Insight into the yeast-mycotoxin relations. *Agriculture* **11**, Article No.: 1291.

Impact factor 2.925

35. Gila, B.Cs., Antal, K., Birkó, Zs., Keserű, J. Zs., Pócsi, I. and Emri, T. (2022) Strategies shaping the transcription of carbohydrate-active enzyme genes in *Aspergillus nidulans*. *J. Fungi* **8**, Article No.: 79.

Impact factor 5.816

36. Farkas, Zs., Országh, E., Engelhardt, T., Csorba, Sz., Kerekes, K., Zentai, A., Süth, M., Nagy, A., Miklós, G., Molnár, K., Rác, Cs., Dövényi-Nagy, T., Ambrus, Á., Győri, Z., Dobos, A.Cs., Pusztahelyi, T., Pócsi I. and Józwiak, Á. (2022) A systematic review of the efficacy of interventions to control aflatoxins in dairy production chain – feed production and animal feeding interventions. *Toxins* **14**, Article No.: 115.

Impact factor 4.546

37. Adácsi, C., Kovács, Sz., Pócsi, I., Győri, Z., Dombrádi, Zs. and Pusztahelyi, T. (2022) Microbiological and toxicological evaluation of fermented forages. *Agriculture* **12**, Article No.: 421.

Impact factor 2.925