

## Dr. Emri Tamás tudományos publikációi:

1. **Emri, T.**, Bartók, G. and Szentirmai, A. (1994) Regulation of specific activity of glucose-6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase in *Penicillium chrysogenum*. *FEMS Microbiol. Lett.* **117**, 67–70. **Impakt faktor: 1,597**
2. **Emri, T.**, Pócsi, I. and Szentirmai, A. (1997) Glutathione metabolism and protection against oxidative stress caused by peroxides in *Penicillium chrysogenum*. (1997) *Free Radic. Biol. Med.* **23**, 809-814. **Impakt faktor: 3,528**
3. **Emri, T.**, Pócsi, I. and Szentirmai, A. (1997) Phenoxyacetic acid induces glutathione-dependent detoxification and depletes the glutathione pool in *Penicillium chrysogenum*. *J. Basic Microbiol.* **37**, 181-186. **Impakt faktor: 0,519**
4. **Emri, T.**, Pócsi, I. and Szentirmai, A. (1998) Changes in the glutathione (GSH) metabolism of *Penicillium chrysogenum* grown on different nitrogen, sulphur and carbon sources. *J. Basic Microbiol.* **38**, 3-8. **Impakt faktor: 0,505**
5. **Emri, T.**, Pócsi, I. and Szentirmai, A. (1999) Analysis of the oxidative stress response of *Penicillium chrysogenum* to menadione. *Free Radic. Res.* **30**, 125-132. **Impakt faktor: 2,270**
6. **Emri, T.**, Sági, L., Szentirmai, A. and Pócsi, I. (1999) Co-ordination of the nitrate and nitrite assimilation, the glutathione and free radical metabolisms, and the pentose phosphate pathway in *Penicillium chrysogenum*. *J. Basic Microbiol.* **39**, 109-115. **Impakt faktor: 0,753**
7. **Emri, T.**, Leiter, É. and Pócsi, I. (2000) Effect of phenoxyacetic acid on the glutathione metabolism of *Penicillium chrysogenum*. *J. Basic Microbiol.* **40**, 93-104. **Impakt faktor: 0,613**
8. **Emri, T.**, Leiter, É., Farkas, E. and Pócsi, I. (2001) Penicillin productivity and glutathione-dependent detoxification of phenylacetic and phenoxyacetic acids in *Penicillium chrysogenum*. *J. Basic Microbiol.* **41**, 67-73. **Impakt faktor: 0,421**
9. Leiter, É., **Emri, T.**, Gyémánt, Gy., Nagy, I., Pócsi, I., Winkelmann, G. and Pócsi, I. (2001) Penicillin V production by *Penicillium chrysogenum* in the presence of Fe(III) and in low-iron culture medium. *Folia Microbiol.* **46**, 127-132. **Impakt faktor: 0,776**
10. Pócsi, I., **Emri, T.**, Sági, L., Leiter É. and Szentirmai, A. (2001) The glutathione metabolism of the  $\beta$ -lactam producer filamentous fungus *Penicillium chrysogenum*. *Acta Microbiol. Immunol. Hung.* **48**, 393-411.
11. Sági, L., **Emri, T.** and Pócsi, I. (2001) Autolysis and ageing of *Penicillium chrysogenum* cultures under carbon starvation: glutathione metabolism and formation of reactive oxygen species. *Mycol. Res.* **105**, 1246-1250. **Impakt faktor: 1,346**
12. Sági, L., Pusztahelyi, T., **Emri, T.**, Varcza, Z., Fekete, A., Grallert, Á., Karányi, Z., Kiss, L. and Pócsi, I. (2001) Autolysis and ageing of *Penicillium chrysogenum* cultures under carbon starvation: chitinase production and antifungal effect of allosamidin. *J. Gen. Appl. Microbiol.* **47**, 201-211. **Impakt faktor: 0,512**
13. Würtz Jürgensen, C., Raun Jacobsen, N., **Emri, T.**, Eriksen, S.H. and Pócsi, I. (2001) Glutathione metabolism and dimorphism in *Aureobasidium pullulans*. *J. Basic Microbiol.* **41**, 131-137. **Impakt faktor: 0,421**
49. **Emri, T.**, Oláh, B., Sági, L., Molnár, Z., Nagy, M., Pusztahelyi, T. and Pócsi, I. (2002) Investigation of glutathione metabolism in filamentous fungi. *Acta Microbiol. Immunol. Hung.* **49**, 267-276.
14. Pesti, M., Gazdag, Z., **Emri, T.**, Farkas, N., Koósz, Z., Belágyi, J. and Pócsi, I. (2002) Chromate sensitivity in fission yeast is caused by increased glutathione reductase activity and peroxide overproduction. *J. Basic Microbiol.* **42**, 408-419. **Impakt faktor: 0,512**
15. Gulyás, G., **Emri, T.**, Simon, A. and Györgydeák, Z. (2002) *In vitro* antimicrobial activity of 3,4-dihydro-s-triazinobenzimidazole derivatives. *Folia Microbiol.* **47**, 29-31. **Impakt faktor: 0,979**
16. **Emri, T.**, Oláh, B., Sági, L. and Pócsi, I. (2003) Does the detoxification of penicillin side-chain precursors depend on microsomal monooxygenase and glutathione S-transferase in *Penicillium chrysogenum*? *J. Basic Microbiol.*, **43**, 287-300. **Impakt faktor: 0,839**
17. Gazdag, Z., Pócsi, I., Belágyi, J., **Emri, T.**, Blaskó, Á., Takács, K. and Pesti, M. (2003) Chromate tolerance caused by reduced hydroxyl radical production and decreased glutathione reductase activity in *Schizosaccharomyces pombe*. *J. Basic Microbiol.* **43**, 96-103. **Impakt faktor: 0,839**
18. Nagy, M.A., **Emri, T.**, Fekete, E., Sándor, E., Springael, J.Y., Penninckx, M.J. and Pócsi, I. (2003) Glutathione metabolism of *Acremonium chrysogenum* in relation to cephalosporin C production: Is  $\gamma$ -glutamyltranspeptidase in the center? *Folia Microbiol.* **48**, 149-156. **Impakt faktor: 0,857**
19. Pócsi, I., Pusztahelyi, T., Sági, L. and **Emri, T.** (2003) Autolysis of *Penicillium chrysogenum* - a holistic approach. *Ind. J. Biotechnol.*, **2**, 293-301.
20. Sági, L., Karaffa, L., **Emri, T.** and Pócsi, I. (2003) Autolysis and ageing of *Penicillium chrysogenum* under carbon starvation: respiration and glucose oxidase production. *Acta Microbiol. Immunol. Hung.* **50**, 67-76.

21. **Emri, T.**, Molnár, Zs., Pusztahelyi, T. and Pócsi, I. (2004) Physiological and morphological changes in autolyzing *Aspergillus nidulans* cultures. *Folia Microbiol.* **49**, 277-284. **Impakt faktor: 1,034**
22. **Emri, T.**, Molnár, Zs., Pusztahelyi, T., Rosén, S. and Pócsi, I. (2004) Effect of vitamin E on autolysis and sporulation of *Aspergillus nidulans*. *Appl. Biochem. Biotechnol.* **118**, 337- 348. **Impakt faktor: 0,907**
23. Molnár, Z., Mészáros, E., Szilágyi, Z., Rosén, S., **Emri, T.** and Pócsi, I. (2004) Influence of *fada*<sup>G203R</sup> and *AflbA* mutations on morphology and physiology of submerged *Aspergillus nidulans* cultures. *Appl. Biochem. Biotechnol.* **118**, 349-360. **Impakt faktor: 0,907**
24. **Emri, T.**, Molnár, Zs. and Pócsi, I. (2005) The appearances of autolytic and apoptotic markers are concomitant but differently regulated in carbon-starving *Aspergillus nidulans* cultures. *FEMS Microbiol. Lett.* **251**, 297-303. **Impakt faktor: 2,057**
25. **Emri, T.**, Molnár, Zs., Pusztahelyi, T., Varcza, Z. and Pócsi, I. (2005) The FluG-BrlA pathway contributes to the initialisation of autolysis in submerged *Aspergillus nidulans* cultures. *Mycol. Res.* **109**, 757-763. **Impakt faktor: 1,572**
26. Leiter, É., Szappanos, H., Oberparleiter, C., Kaiserer, L., Csernoch, L., Pusztahelyi, T., **Emri, T.**, Pócsi, I., Salvenmoser, W. and Marx, F. (2005) The antifungal protein PAF severely affects the integrity of the plasma membrane of *Aspergillus nidulans* and induces an apoptosis-like phenotype. *Antimicrob. Agents Chemother.* **49**, 2445-2453. **Impakt faktor: 4,379**
27. Pócsi, I., Miskei, M., Karányi, Z., **Emri, T.**, Ayoubi, P., Pusztahelyi, T., Balla, G. and Prade, R.A. (2005) Comparison of gene expression signatures of diamide, H<sub>2</sub>O<sub>2</sub> and MSB exposed *Aspergillus nidulans* cultures - linking genome-wide transcriptional changes to cellular physiology. *BMC Genomics* **6**, Article No: 182. **Impakt faktor: 4,092**
28. **Emri, T.**, Molnár, Zs., Veres, T., Pusztahelyi, T., Dudás, G. and Pócsi, I. (2006) Glucose-mediated repression of autolysis and conidiogenesis in *Emericella nidulans*. *Mycol. Res.* **110**, 1172-1178. **Impakt faktor: 1,860**
29. Gyetvai, Á., **Emri, T.**, Takács, K., Dergez, T., Fekete, A., Pesti, M., Pócsi, I. and Lenkey, B. (2006) Lovastatin possesses a fungistatic effect against *Candida albicans*, but does not trigger apoptosis in this opportunistic human pathogen. *FEMS Yeast Res.* **6**, 1140-1148. **Impakt faktor: 2,274**
30. Molnár, Zs., **Emri, T.**, Zavaczki, E., Pusztahelyi, T. and Pócsi, I. (2006) Effects of mutations in the GanB/RgsA G protein mediated signaling on the autolysis of *Aspergillus nidulans*. *J. Basic Microbiol.* **46**, 495-603. **Impakt faktor: 0,722**
31. Pusztahelyi, T., Molnár, Z., **Emri, T.**, Klement, É., Miskei, M., Kerékgyártó, J., Balla, J. and Pócsi, I. (2006) Comparative studies of differential expression of chitinolytic enzymes encoded by *chiA*, *chiB*, *chiC* and *nagA* genes in *Aspergillus nidulans*. *Folia Microbiol.* **51**, 547-554. **Impakt faktor: 0,963**
32. Varcza, Z., **Emri, T.**, Pusztahelyi, T. and Pócsi, I. (2006) A novel aspect of NADPH production in ageing *Penicillium chrysogenum*. *Acta Biol. Hung.* **57**, 115-121. **Impakt faktor: 0,688**
33. Fekete, A., **Emri, T.**, Gyetvai, Á., Gazdag, Z., Pesti, M., Varga, Z., Balla, J., Cserhádi, Cs., Emódy, L., Gergely, L. and Pócsi, I. (2007) Development of oxidative stress tolerance resulted in reduced ability to undergo morphologic transitions and decreased pathogenicity in a *t*-butylhydroperoxide-tolerant mutant of *Candida albicans*. *FEMS Yeast Res.* **7**, 834-847. **Impakt faktor: 2,812**
34. Gyetvai, Á., **Emri, T.**, Fekete, A., Varga, Z., Gazdag, Z., Pesti, M., Belágyi, J., Emódy, L., Pócsi, I. and Lenkey, B. (2007) High-dose methylprednisolone influences the physiology and virulence of *Candida albicans* ambiguously and enhances the candidacidal activity of the polyene antibiotic amphotericin B and the superoxide generating agent menadione. *FEMS Yeast Res.* **7**, 265-275. **Impakt faktor: 2,812**
35. Hegedűs, N., **Emri, T.**, Szilágyi, J., Karányi, Zs., Nagy, I., Penninckx, M.J. and Pócsi, I. (2007) Effect of heavy metals on the glutathione status in different ectomycorrhizal *Paxillus involutus* strains. *World J. Microbiol. Biotechnol.* **23**, 1339-1343. **Impakt faktor: 0,745**
36. Pócsi, I., Molnár, Zs., Pusztahelyi, T., Varcza, Z. and **Emri, T.** (2007) Yeast-like cell formation and glutathione metabolism in autolyzing cultures of *Penicillium chrysogenum*. *Acta Biol. Hung.* **58**, 431-440. **Impakt faktor: 0,447**
37. **Emri, T.**, Molnár, Zs., Szilágyi, M. and Pócsi, I. (2008) Regulation of autolysis in *Aspergillus nidulans*. *Appl. Biochem. Biotechnol.* **151**, 211-220. **Impakt faktor: 1,040**
38. **Emri, T.**, Szilágyi, M., Justyák, A. and Pócsi, I. (2008) Heterotrimeric G protein mediated regulation of proteinase production in *Aspergillus nidulans*. *Acta Microbiol. Immunol. Hung.* **55**, 111-117.
39. Fekete, A., Pócsi, I., **Emri, T.**, Gyetvai, Á., Gazdag, Z., Pesti, M., Karányi, Zs., Majoros, L., Gergely, L. and Pócsi, I. (2008) Physiological and morphological characterization of *tert*-butylhydroperoxide tolerant *Candida albicans* mutants. *J. Basic Microbiol.* **48**, 480-487. **Impakt faktor: 1,051**
40. Pócsi, I., Jeney, V., Kertai, P., Pócsi, I., **Emri, T.**, Gyémánt, Gy., Fésüs, L., Balla, J. and Balla, Gy. (2008) Fungal siderophores function as protective agents of LDL oxidation and are promising anti-

- atherosclerotic metabolites in functional food. (2008) *Mol. Nutr. Food Res.* **52**, 1434-1447. **Impakt faktor: 3,308**
41. Tóth, V., Antal, K., Gyémánt, Gy., Miskei, M., Pócsi, I. and **Emri, T.** (2009) Regulation of coprogen production in *Neurospora crassa*. *Acta Biol. Hung.* **60**, 321-328. **Impakt faktor: 0,551**
42. Pócsi, I., Leiter, É., Kwon, N.J., Shin, K.S., Kwon, G.S., Pusztahelyi, T., **Emri, T.**, Abuknesha, R.A., Price, R.G. and Yu, J.H. (2009) Asexual sporulation signaling regulates autolysis of *Aspergillus nidulans* via modulating the chitinase ChiB production. *J. Appl. Microbiol.* **107**, 514-523. **Impakt faktor: 2,098**
43. **Emri, T.**, Szilágyi, M., László, K., Hamvas, M. and Pócsi, I. (2009) PepJ is a new extracellular proteinase of *Aspergillus nidulans*. *Folia Microbiol.* **54**, 105-109. **Impakt faktor: 0,978**
44. Szilágyi, M., Pócsi, I., Forgács, K. and **Emri, T.** (2010) MeaB dependent nutrition sensing regulates autolysis in carbon starving *Aspergillus nidulans* cultures. *Indian J. Microbiol.* **50**, 104-108. **Impakt faktor: 0,938**
45. Balázs, A., Pócsi, I., Hamari, Z., Leiter, É., **Emri, T.**, Miskei, M., Oláh, J., Tóth, V., Hegedűs, N., Prade, R.A., Molnár, M. and Pócsi, I. (2010) AtfA BZIP-type transcription factor regulates oxidative and osmotic stress responses in *Aspergillus nidulans*. *Mol. Genet. Genom.* **283**, 289-303. **Impakt faktor: 2,453**
46. Szilágyi, M., Kwon, N.J., Dorogi, C., Pócsi, I., Yu, J.H. and **Emri, T.** (2010) The extracellular  $\beta$ -1,3-endoglucanase EngA is involved in autolysis of *Aspergillus nidulans*. *J. Appl. Microbiol.* **109**, 1498-1508. **Impakt faktor: 2,365**
47. Pusztahelyi, T., Klement, É., Szajli, E., Klem, J., Miskei, M., Karányi, Z., **Emri, T.**, Kovács, S., Orosz, G., Kovács, K.L., Medzihradzky, K.F., Prade, R.A. and Pócsi, I. (2011) Comparison of transcriptional and translational changes caused by long-term menadione exposure in *Aspergillus nidulans*. *Fungal Genet. Biol.* **48**, 92-103. **Impakt faktor: 3,333**
48. Hegedűs, N., Leiter, É., Kovács, B., Tomori, V., Kwon, N.J., **Emri, T.**, Marx, F., Batta, Gy., Csernoch, L., Haas, H., Yu, J.H. and Pócsi, I. (2011) The small molecular mass antifungal protein of *Penicillium chrysogenum* – a mechanism of action oriented review. *J. Basic Microbiol.* **51**, 561-571. **Impakt faktor: 1,319**
49. Erdei, É., Molnár, M., Gyémánt, Gy., Antal, K., **Emri, T.**, Pócsi, I. and Nagy, J. (2011) Trehalose overproduction affects the stress tolerance of *Kluyveromyces marxianus* ambiguously. *Bioresour. Technol.* **102**, 7232-7235. **Impakt faktor: 4,365**
50. Szilágyi, M., Kwon, N.J., Bakti, F., M-Hamvas, M., Jámbrik, K., Park, H.S., Pócsi, I., Yu, J.H. and **Emri, T.** (2011) Extracellular proteinase formation in carbon starving *Aspergillus nidulans* cultures – physiological function and regulation. *J. Basic Microbiol.* **51**, 625-634. **Impakt faktor: 1,319**
51. Gazdag, Z., Fujs, S., Kőszegi, B., Kálmán, N., Papp, G., **Emri, T.**, Belágyi, J., Pócsi, I., Raspor, P. and Pesti, M. (2011) The *abc1/coq8* respiratory-deficient mutant of *Schizosaccharomyces pombe* suffers from glutathione underproduction and hyperaccumulates Cd<sup>2+</sup>. *Folia Microbiol.* **56**, 353-359. **Impakt faktor: 0,977**
52. 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. **Impakt faktor: 0,977**
53. Gonda, S., Tóth, L., Gyémánt, G., Braun, M., **Emri, T.** and Vasas, G. (2012) Effect of high relative humidity on dried *Plantago lanceolata* L. leaves during long-term storage: effects on chemical composition, colour and microbiological quality. *Phytochem. Anal.* **23**, 88-93. **Impakt faktor: 0,977**