

CONTRIBUTION OF HUNGARY TO COST ACTIONS 812, 819 & 850

PUBLICATIONS

(IF = Impact Factor; Cit: number of citation in May 2003)

1. **Marokházi J**, Koczán G, Hudecz F, Graf L, Fodor A, Venekei I. (2004). Enzymic characterization with progress curve analysis of a collagen peptidase from an entomopathogenic bacterium, *Photorhabdus luminescens*. *Biochem J.* **379**: 633-640.
2. **Marokházi, J.**, Lengyel, K., Pekár, Sz., Felföldi, G., Gráf, L., Fodor A. and Venekei, I. (2004). Comparison of proteolytic activities produced by *Photorhabdus* bacteria: a strain and phase variant specific composition and activity of four enzymes. *Appl. Env. Microbiol.* **In press.** (IF: 3.389).
3. **Marokházi, J.**, Waterberg, N., Legoff, G., Fei, E., Stabler, R., F. & Fodor, A., French-Constant, R. (2003). Using a DNA microarray to investigate the distribution of insect virulence factors in strains of *Photorhabdus* bacteria. *J. Bacteriol.* **185**: 4648-56. IF: 3.984
4. **Szállás, E.**, Pukall, R., Pamjav, H., Kovács, G., Buzás, Z., Fodor, A., & Stackebrandt, E. (2001). Passengers who missed the train: comparative sequence analysis, PhastSystem PAGE PCR-RFLP and automated RiboPrint phenotypes of *Photorhabdus* strains. In: Griffin, C.T., A.M. Burnell, M.J., Downes & R. Mulder (Eds). *Developments in entomopathogenic nematode / bacterial research*. European Commission Publications, Luxemburg. pp.:36-53 IF: 0.5 (Cit: 2).
5. **Völgyi, A.**, Fodor, A. and Forst, S. (2000). Inactivation of a novel gene produces phenotypic variant cells and affects symbiotic behavior in *Xenorhabdus nematophilus* *Appl. Env. Microbiol.* **66**: 1622-1628. IF: 3.389 (Cit: 2 + 1 In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).
6. **Pamjav, H.** Triga D. Buzás Zs. Vellai T., Lucskai, A., Adams, B., Reid A. P., Burnell, A., Griffin, C., Glazer, I., Klein M.G., and **Fodor, A.** (1999). Novel application of PhastSystem polyacrylamide gel electrophoresis using restriction fragment length polymorphism - internal patterns of individual for molecular identification of entomopathogenic nematodes. *Electrophoresis*, **20**: 1266-1273. IF: 3.447 (Cit: 1 + 1 In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).
7. **Triga D.**, Pamjav, D., Vellai T., Fodor, A., and Buzás Zs. (1999). Gel electrophoretic restriction fragment length polymorphism analysis of DNA derived from individual nematodes using the PhastSystem. *Electrophoresis*, **20**: 1274-1279. IF: 3.447 (Cit: 2).
8. **Vellai, T.**, Molnár, A., Lakatos, L., Bánfalvi, Z., Fodor, A. and Sáringer, Gy. (1999). Transgenic nematodes carrying a cloned stress resistant gene from yeast. In: Glaser, I., Richardson, P., Boemare, N., and Coudert, F. (eds.) *Survival of Entomopathogenic Nematodes*. European Commission Publications, Luxemburg, pp. 105-119. IF: 0.5 (Cit:1; In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).

9. **Völgyi, A.**, Fodor, A., Szentirmai, A., Forst. S. (1998). Phase variation in *Xenorhabdus nematophilus*. *Appl. Env. Microbiol.* **64**: 1188-1199. **IF: 3.336** (Cit: 8 + 1 In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).
10. **Wiard, A.C.M.**, van der Burgt, B., Budai, Cs., Fodor, A., & Lucskai A. (1998). Parasitism of western corn rootworm adults by *Steinernema* spp. and *Heterorhabditis* spp. *Proc. Exp. & Appl. Entomol.*, N.E.V.) **9**:165-170. **IF: 0.5**
11. **Szállás, E.**, Koch, C., Fodor, A., Burghardt, J., Buss, O., Szentirmai, A. Nealson, K. H., Stackebrandt, E. (1997). Phylogenetic evidence for the taxonomic heterogeneity of *Photorhabdus luminescens*. *Int. J. Syst. Bacteriol.* **47**: 402-407. **IF: 3.724** (Cit: 15; + 1 In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).
12. **Fodor, E.**, Szállás E., Kiss Z, Fodor, A., Horvath L. I., Chitwood D. J., and Farkas T., (1997). Composition and biophysical properties of lipids in *Xenorhabdus nematophilus* and *Photorhabdus luminescens*, symbiotic bacteria associated with entomopathogenic nematodes. *Appl. Env. Microbiol.* **63**: 2826-2831. **IF: 3.336** (Cit: 3).
13. **Fodor, A.**, Vellai, T., and Klein, M. G. (1997). Isolation of EPN homologues of *C. elegans*. In: Abad, P., A. Burnell, C. Laumond, N. Boemare, F. Coubert (Eds). *Genetic and molecular biology of entomopathogenic nematodes*. European Commission Publications, Brussels, pp. 59-74. **IF = 0.5**. (Cit: 1).
14. **Sáringer, Gy.** Nádasy, M., Lucskai A., Fodor, A., Budai, Cs. & Klein, M.G. (1997). New possibilities of controlling larvae of Melolonthidae and Noctuidae using entomopathogenic nematodes. Zbornik predavanj in referatov s 3. Slovnséga posvetovanja o varstvu rastlin pp. 215-223. **IF: 0.5**
15. **Fodor, A.** (1996). Genetic analysis of *Photorhabdus* and *Xenorhabdus*. In: N. Boemare, R.U. Ehlers, A. Fodor and A. Szentirmai (eds.) *Symbiosis and Pathogenicity of Nematode – Bacteria Complexes*. European Commission Publications, Brussels, pp. 93-108. (**IF: 0.5**) (Cit: 1).
16. **Fodor, A.**, (1994). Genetic and molecular aspects of dauerlarva formation and recovery. In: Burnell A.M., R-U Ehlers, and J.P. Masson (Eds), *Genetics of Entomopathogenic Nematode Bacterium Complexes* European Commission Publications, Luxemburg, pp. 23-40.**IF:0.5** (Cit: 1).
17. **Fodor, A.**, Márton, P., Szállás, E., Vellai, T. (1994). Prospects for The genetic improvement/analysis of entomopathogenic nematodes In: Burnell A.M., R-U Ehlers and Masson J.P. (Eds), *Genetics of Entomopathogenic Nematode Bacterium Complexes* COST 812 Biotechnology European Commission Publications, Luxemburg, pp. 101-119. **IF: 0.5** (Cit: 1).
18. **Fodor, A.**, Dey, I., G., Farkas, T. and Chitwood, D. J. (1994). Effects of temperature and dietary lipids on phospholipid fatty acids and membrane fluidity in *Steinernema carpocapsae*. *J. Nematol.* **26**: 278-285. **IF: 0.585** (Cit: 14).
19. **Sztaricskai, F.**, Dinya, Z., Bata, Gy. Szállás, E., Szentirmai, A., and Fodor, A. (1992). Anthraquinones produced by enterobacters and nematodes. *Acta Chim. Hung.* **129**: 697-707. **IF: 0.282** (Cit: 4 + 1 In: R. Gaugler (Ed). *Entomopathogenic Nematology*. CABI Publishing, New York.).
20. **Fodor, A.** Vecseri G. Farkas, T. (1990). *C. elegans*, as a model for studying entomopathogenic nematodes. pp. 285-300. In: R. Gaugler and H. Kaya (eds.) *Entomopathogenic Nematodes in Biological Control*. CRC Press, Boca Raton **IF: 1.0** (Cit: 110).

21. **Fodor, A.**, Tímár, T (1989). Effect of precocene analogues on the nematodes *Caenorhabditis remanei*. II. *Gen. Comp. Endocrinol.***74**: 32-44. **IF: 1.852** (Cit: 2).
22. **Fodor, A.** Tímár, T., Kiss, I., Hosztafi, S., Varga, É., Soós, J. Sebök, P. (1989). Effect of precocene analogues on the nematodes *Caenorhabditis remanei*. I. *Gen. Comp. Endocrinol.* **74**: 18-31. **IF: 1.852** (Cit: 3*t*).
23. **Fodor, A.**, & Deák, P. (1985). The isolation and genetic analysis of a *Caenorhabditis elegans* translocation (szT1) strain bearing an X-chromosome balancer *J. Genet.* **64**: 143-167. **IF: 0.0** (Cit: 28).
24. **Fodor, A.**, Riddle, D. L., Nelson, F.K., Golden, J.W. (1983). Comparison of a new wild-type *Caenorhabditis briggsae* with laboratory strains of *C. elegans* and *C. briggsae*. *Nematologica* **29**: 203-207. **IF: 0.290 1** (Cit: 22).
25. Deák, P., **Fodor, A.**, (1982). Isolation and phenocritical period-analysis of conditional and non-conditional developmental mutants in *Caenorhabditis elegans*. *Acta Biologica Hung.*, **32**: 229-239. **IF: 0.208** (Cit:3).

Ph. D DISSERTATIONS - DEFENDED

26. **Deák, Peter** (1979). Isolation and characterization of an X-chromosome balancer Bal-X-1 (szT1) in the nematode *Caenorhabditis elegans*. [A Bal-X-1 (szT1) balanszer kromoszoma izolalasa es jellemzese *Caenorhabditis elegans* fonalferegben.]. pp. 1-39. In Hungarian. Jozsef Attila University Szeged, Hungary. Supervisor: **Fodor** András.
27. **Triga, Dimitra** (1999). Molecular Approach to the Phylogeny of Entomopathogenic *Steinernema / Xenorhabdus* symbiotic associations by using the PhastSystem PAGE PCR-RFLP analysis. Ph. D. Thesis, Eötvös University, Budapest, Hungary, 1999. pp. 1-61. Tutors: **Fodor** András & **Buzás** Zsuzsanna
28. **Pamjav, Horolma** (1999). PhastSystem PAGE PCR-RFLP Analysis of Entomopathogenic Nematode / Bacterium Complexes. Ph. D. Theses, Eötvös University, Budapest, Hungary. 1999. pp. 1-70. In English. Tutors: **Fodor** András & **Buzás** Zsuzsanna.
29. **Vellai, Tibor.** (1999). Transgenic nematodes, as rough material for evolution. [Transzgénikus nematodák, mint evolúciós nyersanyag]. Ph. D. Theses. In Hungarian, Eötvös University, Budapest, Hungary 1999. Supervisors: **Fodor** András & **Vida** Gábor.
30. **Völgyi, Antonia.** (2000). Genetic analysis of the related pleiotropic phenotypes to the symbiotic behavior in the entomopathogenic bacterium *Xenorhabdus nematophilus*. Ph. D. Dissertation, Eötvös University, Budapest, Hungary. 1-116 pp. In English. Supervisors: **Fodor** András & **Steven Forst**.

DISSERTATION SUBMITTED:

31. **Szállás, Emilia** (2004). [A *Photorhabdus* nemzetség filogenetikai es taxonomiai elemzése]. Ph. D. Theses. In Hungarian, Eötvös University, Budapest, Hungary 2004. Supervisor: **Fodor** András.

SOME SELECTED MEETING ABSTRACTS

32. **Fodor, A.** (2003). EPN Genomics: suggestion for and prospects of a genome-wide analysis of EPN dauer regulatory genes by using tools of the molecular genetics elaborated in *C. elegans*. Pp. 68-69. In: Abstracts for the 36th Annual Meeting of Society for Invertebrate Pathology, July 26-30, 2003, Burlington, Vermont, USA.
33. **Fodor, A.** (2003). Molecular and gnotobiological approach to EPN/EPB co-speciation. Pp. 8-9. In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA.
34. Lakatos, T., **Fodor, A.** (2003). Perspectives and problems of the use of EPN / EPB as biological control agents in the Hungarian horticulture. p. 22. In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA.
35. Mathe, A., **Fodor, A.**, Hevesi, M., Ersek, T., Marokhazi, J., French-Constant, R., Anderson, B., Klein, M. G., and C. Krause (2003). EMC: a new *Xenorhabdus* isolate of some unusual phenotype. p 35 In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA
36. **Fodor, A.**, Szentirmai, A., Sztaricskai, F., Hevesi, M., Mathe, A., Foldes, L., Kormany, A., Pekar, Sz., Klein, M. G. and Inantsy, F. (2003). pp. 35-36. Antibiotic substances produced by new *Xenorhabdus* isolates: an option to control *Erwinia amylovora*, the bacterium pathogen causing fire blight. In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA
37. **Fodor, A.**, Máthe, A., and Klein, M. G. (2003). HU86: a *Heterorhabditis* strain highly pathogenic for several scarabs, including *Melolontha melolontha*. p.41. In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA.
38. Virágh, E. Fodor, E., Farkas, T., **Fodor, A.**, Furgani, G., and Chitwood, D. J. (2003). An analysis of the role of polar (phospholipid) membranes, polyunsaturated fatty acids and sterols in the thermo-adaptation of entomopathogenic nematode *Steinernema* species. Pp. 54-55. . In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA.
39. **Fodor, A.**, Grewal, P., and Klein, M. G. (2003). Prospects of a genome-wide analysis of EPN for dauer regulatory and other genes using tools of *C. elegans* molecular genetics. P. 56. In: Abstracts of the 3rd International Symposium on Entomopathogenic Nematodes and Symbiotic Bacteria, September 4-7, 2003, OARDC, Wooster, Ohio, USA.
40. Völgyi, A., **Fodor, A.** and S. Forst. (1999). A novel protein involved in formation of phase variant cells in *Xenorhabdus nematophilus*. In Abstracts of the 99th- Annual Meeting of the American Society of Microbiology. Chicago, IL. 1999. p. 796.
41. Völgyi, A., **Fodor A.** and Forst S., (1999). Genetic analysis of nematode-bacterium symbiotic complexes from bacterial side. In Abstracts of the 12th International *C. elegans* Meeting. Madison, WI, 1999. p. 877.

42. Völgyi, A., **Fodor A.** and S. Forst. (1999). Genetic analysis of phase variation of *Xenorhabdus nematophilus* AN6/I. p. 107-108. In: Abstracts of the IV. Congress of Hungarian Geneticists [Magyar Genetikai Kongresszus], 1999. p. 107-108.
43. Völgyi, A., Farkas T., **Fodor A.** and Forst S. (1999). Phospholipid membrane fluidity and fatty acid profile in spontaneous phase variants, transposon induced -, deletion - and complemented phase variant mutant of the entomopathogenic bacterium *Xenorhabdus nematophilus*. p. 110-111, In Book of Abstracts of the 13th International Congress of the Hungarian Society for Microbiology, 1999.
44. Oravec, O., Szállás, E., Pamjav, H., **Fodor, A.**, Adams, B., and Stackebrandt, E. (1998). *Heterorhabditis* spp. and *Photorhabdus* spp. co-evolution and gnotobiology. In: Boemare, N., P. Richardson, F. Coubert (Eds). *Taxonomy, phylogeny and gnotobiological studies of entomopathogenic nematode bacterium complexes*. European Commission Publications, Luxemburg, pp. 97-98.
45. Völgyi, A., **Fodor, A.** and S. Forst. (1998). The generation of phase variant cells by Tn10 mutagenesis of *Xenorhabdus nematophilus*. In the 1998 annual Kenneth B. Paper Symposium. Madison, WI, 1998.
46. Völgyi, A., **A. Fodor** and S. Forst. (1997). Study of phase variation in the symbiotic- pathogenic bacterium, *Xenorhabdus nematophilus*. In the 1997 annual Kenneth B. Paper Symposium. Madison, WI, 1997.
47. Kiss, Zs. Ortutay, P. Cs., **Fodor, A.**, Rott, M., and Neelson, K.H. (1998). Towards toward the physical map of the genophor (chromosome) of *Photorhabdus luminescens*. In: Boemare, N., P. Richardson, F. Coubert, (Eds). *Taxonomy, phylogeny and gnotobiological studies of entomopathogenic nematode bacterium complexes*. European Commission Publications, Luxemburg, pp. 99.
48. Sáringer, Gy. **Fodor, A.**, Georgis, R., Lucskai, A. & Nádasy, M., (1996). Possibilities of biological control using entomopathogenic nematodes against *Leptinotarsa decemlineata* SAY and *Athalia rosae* L. larvae. 48th International Symposium, Gent, Belgium, pp. 103.
49. Székely, G., A. Völgyi and A. **Fodor**. (1995). Establishing genomic and cDNA libraries of the entomopathogenic nematode, *Steinernema carpocapsae*. In Abstracts of the 10th International *C. elegans* Meeting. Madison, WI, 1995. p. 502.
50. Sáringer, Gy. **Fodor, A.** Nádasy, M., & Lucskai A. (1986). The use of nematodes in biological control of Colorado potato beetle, *Leptinotarsa decemlineata* in Hungary. [A fonalférgek (Nematoda) szerepe a burgonyabogár elleni védekezésben Magyarországon]. Növényvédelmi Napok'96, Keszthely pp. 43. In Hungarian.

BOOK CHAPTERS AND REVIEWS

51. **Fodor, András**, Vecseri Gabriella, Farkas, Tibor. (1990). *C. elegans*, as a model for studying entomopathogenic nematodes. pp. 285-300. In: Randy: Gaugler and Harry K. Kaya (eds.) *Entomopathogenic Nematodes in Biological Control*. CRC Press, Boca Raton.