

LIST OF PUBLICATIONS:

1. Mráček Z. (1977): *Steinernema kraussei*, a parasite of the body cavity of the sawfly, *Cephalcia abietis*, in Czechoslovakia. *J. Invertebr. Pathol.* 30: 87-94.
2. Mráček Z. & Weiser J. (1979): The head papillae of the Steinernematidae. *J. Invertebr. Pathol.* 34: 310-311.
3. Mráček Z. (1980): The use of *Galleria* traps for obtaining nematodes parasite of insects in Czechoslovakia (Lepidoptera:Nematoda, Steinernematidae). *Acta Entomol. Bohemoslov.* 77: 378-382.
4. Mráček Z., Weiser J.& Gerdin S. (1981): Head and cuticular structures of some species in the family Steinernematidae (Nematoda). *Nematologica* 27: 443-448.
5. Mráček Z. (1982): The role of nematodes in biological pest control for environment protection (in Czech). Studijní informace UVTIZ Press, Praha: 51 pp.
6. Mráček Z. (1982): Horizontal distribution in soil, and seasonal dynamics of nematode *Steinernema kraussei*, a parasite of insect *Cephaleia abietis*. *Zeitschr. angew. Entomol.* 94: 110-112.
7. Mráček Z. (1982): Estimate of the number of infective larvae of *Neoaplectana carpocapsae* (Nematoda: Steinernematidae) in soil samples. *Nematologica* 28: 303-306.
8. Mráček Z., Gut J.& Gerdin S. (1982): *Neoaplectana bibionis* Bovien, 1937, an obligate parasite insects isolated from forest soil in Czechoslovakia. *Folia Parasitol.* 29 : 139-145.
9. Wouts W.M., Mráček Z., Gerdin S. & Bedding R.A. (1982): *Neoaplectana* Steiner, 1929 a junior synonym of *Steinernema* Travassos, 1927 (Nematoda, Rhabditida). *Syst. Parasitol.* 4: 147-154.
10. Mráček Z. & Spitzer K. (1983): Interaction of the predators and parasitoid of the sawfly, *Cephaleia abietis* (Pamphilidae: Hymenoptera) with its nematode *Steinernema kraussei*. *J.Invertebr. Pathol.* 42: 397-399.
11. Mráček Z. & Weiser J. (1983): Pathogenicity of *Neoaplectana carpocapsae* (Nematoda) for the flea, *Xenopsylla cheopis*. *J. Invertebr. Pathol.* 42: 133-144.
12. Arteaga E. & Mráček Z. (1984): *Heterorhabditis heliothidis*, a parasite of insect pest in Cuba. *Folia Parasitol.* 31: 11-17.
13. Mařha V. & Mráček Z. (1984): Changes in haemocyte counts in *Galleria mellonella* (L.) (Lepidoptera: Galleriidae) larvae infected with *Steinernema* sp. (Nematoda: Steinernematidae). *Nematologica* 30: 86-89.
14. Mráček Z., Weiser J.& Arteaga E. (1984): Scanning electron microscope study of *Heterorhabditis heliothidis* (Nematoda: Heterorhabditidae). *Nematologica* 3 : 112-114.
15. Bednarek A., Mráček Z. (1986): The incidence of nematodes of the family Steinernematidae in *Cephaleia falleni* Dalm. (Hymenoptera: Pamphilidae) habitat after an outbreak of the pest. *Zeitschr. angew. Entomol.* 102: 527-530.
16. Mráček Z. (1986): Nematodes and other factors controlling the sawfly, *Cephaleia abietis* (Pamphilidae: Hymenoptera), in Czechoslovakia. *Forest Ecol.Manag.* 15: 75-79.
17. Mráček Z. & David L. (1986): Preliminary field control of *Cephaleia abietis* L. (Hymenoptera, Pamphilidae) larvae with steinernematid nematodes in Czechoslovakia. *Zeitschr. angew. Entomol.* 102: 260-263.

18. Mráček Z., Hanzal R. & Kodrik D. (1988): Sites of penetration of juvenile steinernematids and heterorhabditids (Nematoda) into the *Galleria mellonella* (Lepidoptera). *J. Invertebr. Pathol.* 52: 477-488.
19. Mráček Z., Jenser G. (1988): First report of entomogenous nematodes of the Steinernematidae and Heterorhabditidae from Hungary. *Acta Phytol. Entomol. Hungarica* 23: 153-156.
20. Poinar G.O.Jr., Mráček Z., Doucet M.M.A. (1988): A re-examination of *Neoaplectana rara* Doucet, 1986 (Steinernematidae: Rhabditida). *Revue Nematol.* 4 : 447-449.
21. Weiser J., Mráček Z. (1987): Parasitic nematodes of insect (in Czech). Academia Press, Praha: 250 pp.
22. Gereart E., Mráček Z., Sudhaus W. (1989): The facultative insect parasite *Pristionchus lheritieri* (syn. *P. pseudolheritieri*) (Nematoda: Diplogasterida). *Nematologica* 35: 133-141.
23. Kučera M. & Mráček Z. (1989): Proteolytic enzymes of the invasive larvae of entomopathogenic steinernematid nematodes. *Acta Entomol. Bohemoslov.* 86: 193-201.
24. Kučera M. & Mráček Z. (1989): Partial purification and properties of proteolytic enzymes of steinernematid nematodes pathogenic for *Galleria mellonella* larvae. *Acta Entomol. Bohemoslov.* 86: 342-348.
25. Mráček Z. (1989): Contribution a la connaissance des Lepidopteres diurnes de la Iakoutie. *Linneana Belgica* 4: 138-158.
26. Weiss D. & Mráček Z. (1989): A new species of the genus *Colias* (Lepidoptera, Pieridae) from Yakutia. *Nachr. Ent. Ver. Apollo, Frankfurt* 10: 281-290.
27. Mráček Z. & Ružička Z. (1990): Infectivity and development of *Steinernema* sp. strain *Hylobius* (Nematoda) in aphids and aphidophagous coccinellids. *Zeitschr. angew. Entomol.* 110: 92-95.
28. Mráček Z. & Schulte A. (1990): *Parnassius imperator luxuriosus* n.ssp., eine neue Unterart von *Paranassius imperator* Oberth. aus der Provinz Qinghai (China) (Lepidoptera, Papilionidae). *Nachr. Entomol. Ver. Apollo, Frankfurt, N.F.* 11: 11-14.
29. Mráček Z. & Schulte A. (1991): *Colias grumi burchana* nov. ssp., eine neue Unterart von *Colias grumi* Alpheraki aus der Provinz Qinghai (China) (Lepidoptera, Pieridae). *Nachr. Entomol. Ver. Apollo, Frankfurt, N.F.* 12: 163 -165.
30. Kahounová L. & Mráček Z. (1991): Larval mortality in *Synanthedon myopaeformis* (Lepidoptera) in apple trees sprayed with *Steinernema* sp. Nematoda, Steinernematidae), strain *Hylobius*. *Acta Entomol. Bohemoslov.* 88: 205-210.
31. Mráček Z. & Bednarek A. (1991): The morphology of lateral fields of infective juveniles of entomogenous nematodes of the family Steinernematidae (Rhabditida). *Nematologica* 37: 63-71.
32. Mráček Z. & Weyda F. (1991): A unique observation of an unidentified nematode penetrating *Campodea silvestrii* (Diplura, Insecta). *Folia Parasitol.* 38: 260-261.
33. Mráček Z., Weiser J., Bureš M. & Kahounová L. (1991): *Steinernema kraussei* (Steiner, 1923) (Nematoda: Rhabditida); rediscovery of its type locality in Germany. *Folia Parasitol.* 39: 181-182.
34. Mráček Z. (1991): Bioagents with entomogenous nematodes from the families Steinernematidae and Heterorhabditidae (in Czech). In I. Hrdý, Biopesticides in agriculture. Ministerium of Agriculture Press: 92-96.
35. Mráček Z., Bednarek A. (1992) Cuticular structures of J2 and J3 in Heterorhabditidae. *Nematologica* 38: 386-390.
36. Mráček Z., Jiskra K., Kahounová L. (1993): Efficiency of steinernematid nematodes

- (Nematoda: Steinernematidae) in controlling larvae of the black vine weevil, *Otiorrhynchus sulcatus* (Coleoptera: Curculionidae) in laboratory and field experiments. *Eur. J. Entomol.* 90: 71-76.
37. Mráček Z. & Webster J. (1993): Survey of Heterorhabditidae and Steinernematidae (Rhabditida, Nematoda) in Western Canada. *J. Nematology* 25: 710-717.
 38. Mráček Z. (1994): *Steinernema kraussei* (Steiner, 1923) (Nematoda: Rhabditida: Steinernematidae), re-description of its topotype from Westphalen. *Folia Parasitol.* 41: 59-64.
 39. Mráček Z., Hernández E.A. & Boemare N.E. (1994): *Steinernema cubana* sp.n. (Nematoda: Rhabditida: Steinernematidae) and the preliminary characterization of its associated bacterium. *J. Invertebr. Pathol.* 64: 123-129.
 40. Kudrna O., Mráček Z. (1994): A new species of the genus *Melitaea* Fabricius, 1807, from Tibet (Lepidoptera: Nymphalidae). *Entomologist's Gazette* 45: 251-253.
 41. Luczkai A. & Mráček Z. (1996): Study on the distribution of the entomopathogenic nematode species of *Steinernema* and *Heterorhabditis* in Hungary. *Mededelingen Faculteit Land. Toeg. Biologische Wetenschappen Universiteit Gent* 61 (3B): 1007-1009.
 42. Mráček Z., Bečvář S., Řezáč P., Kindlmann P. & Webster J.M. (1997): Canadian steinernematid (Nematoda isolates and their cold activity to greater wax moth (*Galleria mellonella*) larvae. *Biological Control* 8: 160-164.
 43. Eculica J.F., Bečvář S., Mráček Z. & Kindlmann P. (1997): Laboratory control of the European corn borer, *Ostrinia nubilalis* (Hb.) by steinernematid nematodes at low temperature. *J. Appl. Entomol.* 121: 407-409.
 44. Hominick W.M., Briscoe B.R., del Pino F.G., Heng J., Hunt D.J., Kozodoy E., Mráček Z., Nguyen K.B., Reid A.P., Spiridonov S., Stock P., Sturhan D., Waturu C. & Yoshida M. (1997): Biosystematics of entomopathogenic nematodes: current status, protocols, and definition. *J. Helminthol.* 71: 271-298.
 45. Tomalak M. & Mráček Z. (1998): Scanning electron microscope study on morphological modifications of lateral fields in infective juveniles of mutant *Steinernema feltiae* (Filipjev) (Rhabditida: Steinernematidae). *Fundam. Appl. Nematol.* 21: 89-94.
 46. Mráček Z., Bečvář S., Kindlmann P. & Webster J.M. (1998): Infectivity and specificity of Canadian and Czech isolates of *Steinernema kraussei* (Steiner, 1923) to some insect pest at 4 and 7 °C in the laboratory. *Nematologica* 44: 437-448.
 47. Mráček Z., Bečvář S., Kindlmann P. & Webster J.M. (1999): Factors influencing the low temperature infectivity of a *Steinernema kraussei* (Nematoda: Steinernematidae) Canadian isolate in laboratory experiments. *J. Invertebr. Pathol.* 73: 243-247.
 48. Mráček Z., Bečvář S. & Kindlmann P. (1999): Survey of entomopathogenic nematodes from the families Steinernematidae and Heterorhabditidae (Nematoda: Rhabditida) in the Czech republic. *Folia Parasitol.* 46: 145-148.
 49. Fischer-Le Saux M., Arteaga Hernandez E., Mráček Z. & Boemare N. (1999): The bacterial symbiont *Xenorhabdus poinari* (Enterobacteriaceae) is harbored by two phylogenetic related nematodes: the entomopathogenic *Steinernema cubanum* and *S. glaseri* species (Nematoda: Steinernematidae). *FEMS Microbiology Ecology* 29: 149-157.
 50. Mráček Z., Sturhan D. Data sheets of the species of the family Steinernematidae. *S. kraussei*, *S. carpocapsae*, *S. cubanum*. W.M. Hominick editor, submitted to editor
 51. Stock P., Mráček Z., Webster J.M. (2000): Morphological variation among allopatric populations of *Steinernema kraussei* (Steiner, 1923) (Rhabditida: Steinernematidae). *Nematology* 2: 143-152.

52. Mráček Z. & Bečvář S. (2000): Insect aggregations and entomopathogenic nematodes occurrence. *Nematology* 2: 297-301.
53. Mráček Z. & Sturhan D. (2000): Epizootic of the entomopathogenic nematode, *Steinernema intermedium* (Poinar) in a nest of the bibionid fly, *Biblio marci* (L). *J.Invertebr.Pathol.* 76: 149-150.
54. Alena Kubátová¹, David Novotný², Karel Prášil¹ & Zdeněk Mráček³ (2000): Nematophagous micromycete *Esteya vermicola* associated with *Scolytus intricatus* found in the Czech Republic *Czech Mycology* 52: 227-235.
55. Mráček Z., Bečvář S. & Kindlmann P. Preference of insect hosts and habitats by steinernematid and heterorhabditid nematodes and factors influencing their isolation. Draft.
56. Mráček Z., Bečvář S. & Kindlmann P. Insect outbreaks and entomopathogenic nematodes epizootics. Draft
57. Sturhan D. & Mráček Z. (2000): Comparison of the *Galleria* baiting technique and a direct extraction method for recovering *Steinernema* infective-stage juveniles from soil. *Folia Parasitologica* 47: 315-318.
58. Sturhan D. & Mráček Z. New records of the *Steinernema glaseri* group for Europe, with notes on diagnostic characters of the infective juveniles. Draft.
59. Mráček Z. (2003): Use of entomopathogenic nematodes (EPNs) in biological control. In “Advances in microbial control of insect pests”. R.K. Upadhyay ed. Kluwer Academic Plenum Publishers, 235-264.
60. Mráček Z., Sturhan D. & Reid A. (2003): *Steinernema weiseri* sp.n. (Rhabditida: Steinernematidae), a new entomopathogenic nematode from Europe. *Syst. Parasitol.* 56: 37-47.
61. Triggiani O., Mráček Z. & Reid A. (2004): *Steinernema apuliae* sp. n. (Rhabditida: Steinernematidae), a new entomopathogenic nematode from southern Italy. *Zootaxa*, 460: 1-12.
- 6x. Sturhan D., Spiridonov S. & Mráček Z. *Steinernema silvaticum* sp.n.