

➤ **Books:**

1. **Rosane Curtis**, Forest Robinson and Roland Perry. (2010) Hatch and Host Location In: Perry, R.N., Moens, M. and Starr, J. (eds). *Root-Knot Nematodes*. CAB International, Wallingford, UK, pp. 139-162. Published October 2009. <http://bookshop.cabi.org/Uploads/Books/PDF/9781845934927/9781845934927.pdf>
2. Aaron Maule & **Rosane Curtis**. (2011). Parallels between plant and animal parasitic nematodes. In *Genomics and molecular genetics of plant-nematode interactions*. J. Jones, G. Gheysen & C. Fenoll, eds, 221-251. Springer, Dordrecht. http://dx.doi.org/10.1007/978-94-007-0434-3_11.
3. **Rosane Curtis**, John Jones, Keith Davies, Edna Sharon & Yitzhak Spiegel. (2011). Plant nematode surfaces. In *Biological control of plant-parasitic nematodes: building coherence between microbial ecology and molecular mechanisms*. K. G. Davies & Y. Spiegel, eds. Springer, Dordrecht.
4. Roland Perry & **Rosane Curtis**. (2012). Behaviour and Sensory Perception. In: Plant Nematology. Perry, R.N. and Moens, M. (Eds). CABI.

➤ **Patents:**

Research showing that blocking amphidial secretions interfere with nematode behaviour and infection of plants and collaborative research showing that fruit cysteine proteinases have a significant nematocidal effect, resulted in two patent fillings in the UK (GB 46082) and in the USA (WO2008087555), respectively.

1. GB Patent Filing 46082. The use of monoclonal antibodies and single chain antibody fragments suitable for controlling parasitic nematodes
2. USPTO tracking number 60/885,169. Nematicidal effects of cysteine proteinases against sedentary plant parasitic nematodes.

➤ **Refeered Scientific Publication:**

1. **Cunha**, R.H., Chaves, J., Irulegui, I. & Vaz, C.A.C. (1981). Activation of the alternative pathway of Complement by promastigotes of *Leishmania donovani*. *Rev. Inst. Med. Trop.* 23: 161-166.
2. Mariano, O.N., **Cunha**, R.H., Silva, A.A., Vaz, C.A.C. & Chaves, J. (1982). Immunocomplexes in Canine Visceral Leishmaniasis. *Rev. Inst. Med. Trop.* 24: 125-131
3. Doenhoff, M.J., Modha, J., **Curtis**, R.H.C. and Adeoye, G.O. (1988). Immunological identification of *Schistosoma mansoni* peptidases. *Molecular and Biochemical Parasitology*, 31: 233-240. Lambertucci, J.R., Modha, J., **Curtis**, R.H.C. and Doenhoff, M.J. (1989). The association of steroids and schistosomicides in the treatment of experimental schistosomiasis. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 83: 354-357.
4. Doenhoff, M.J., **Curtis**, R.H.C., Ngaiza, J. and Modha, J. (1990). Proteases in the schistosome life-cycle: a paradigm for tumour metastasis. *Cancer and Metastasis Review*, 9: 381-392.
5. **Curtis**, R.H.C., Davies, K.G., Evans, K. and Robinson, M.P. (1992). Immunoassays to quantify plant parasitic nematodes in roots and soil extracts. *Nematologica*, 38:405.
6. Robinson, M.P., Butcher, G., **Curtis**, R.H.C., Davies, K.D. and Evans, K. (1993). Characterisation of a 34kD protein from potato cyst nematodes, using monoclonal antibodies with potential for species diagnosis. *Annals of Applied Biology*, 123:337-347.

7. Evans, K., **Curtis, R.H.C.**, Robinson, M.P. & Yeung, M. (1995). The use of monoclonal antibodies for the identification and quantification of potato cyst nematodes. *EPPO Bulletin*, 25: 357-365.
8. **Curtis, R.H.C.**, Fallon, P.G. & Doenhoff, M.J. (1996). Sm-480: a high molecular weight *Schistosoma mansoni* antigen associated with protective immunity. *Parasite Immunology*, 18: 149-157.
9. Davies, K., **Curtis, R.H.C.** & Evans, K. (1996) Serologically based and quantification tests for nematodes. *Pesticide Science*, 47: 81-87.
10. **Curtis, R.H.C.**, Bendezu, I. & Evans, K. (1996). Identification and localisation of a putative actin in the two species of potato cyst nematodes using a monoclonal antibody. *Fundamental and Applied Nematology*, 19: 41-426.
11. **Curtis, R.H.C.**, Segers, I. & Evans, K. (1996). The diagnostic proteins Gp-5.7 and Gr 5.9 are specific for the amphids of *Globodera* species. *Nematologica*, 42: 466-480.
12. Jones, J.T., **Curtis, R.H.C.**, Wightman, P.J. & Burrows, P.R. (1996). Isolation and characterisation of a putative collagen gene from the potato cyst nematode *Globodera pallida*. *Parasitology*, 113: 581-588.
13. **Curtis, R.H.C.** (1996). Identification and *in vitro* and *in vivo* characterisation of secreted proteins produced by plant parasitic nematodes. *Parasitology*, 113: 589-597.
14. **Curtis, R.H.C.**, Al-Hinai, M.S., Diggins, A.E.R. & Evans, K. (1997). Serological identification and quantification of *Heterodera avenae* from processed soil samples. *Nematologica*, 43: 199-213.
15. Darami, H.Y., **Curtis, R.H.C.**, McNeice, C., Price, H., Sayers, J.R. & Doenhoff, M.J. (1997). *Schistosoma mansoni*: anomalous immunogenic properties of a 27 kDa larval serine protease associated with protective immunity. *Parasitology* 115: 237-247.
16. **Curtis, R.H.C.**, Dunn, J., Yeung, M, Robinson, M. & Evans, K. (1998). Serological identification and quantification of potato cyst nematodes from clean cysts and processed soil samples. *Annals Applied Biology*, 133: 65-70.
17. Lopez, M., **Curtis, R.H.C.** & Gowen, S. (1999). Identification and characterisation of excreted-secreted products and surface coat antigens of animal and plant-parasitic nematodes. *Parasitology*, 118:397-405.
18. Lopez, M., Modha, J., Roberts, C., **Curtis, R.H.C.** & Kusel, J. (2000) Observations of the changes of the surface cuticle of parasitic nematode using fluorescent probes. *Parasitology*, 120: 203-209.
19. Gray, LJ, **Curtis, RHC** & Jones, J. (2001). Characterisation of a collagen gene subfamily from the potato cyst nematode *Globodera pallida*. *Gene*, 263:67-75.
20. Fioretti, L., **Curtis, R.H.C.**, Warry, A, Burrows, P. & Haydock, P. (2001). Identification and immunolocalisation of an annexin (Gp-nex) in *Globodera pallida*. *Nematology*, 3: 45-54.
21. Abrantes, I. & **Curtis, R.H.C.** (2002). Immunolocalisation of a putative cuticular collagen in several developmental stages of *Meloidogyne arenaria*, *Globodera rostochiensis* and *G. pallida*. *Journal of Helminthology*, 76: 1-6.
22. Sharon, E., Spiegel, Y., Solomon, R. & **Curtis, R.H.C.** (2002). Characterization of *Meloidogyne javanica* surface coat using antibodies and their effect on nematode behavior. *Parasitology*, 125: 177-185.
23. Lopez de Mendoza, ME & **Curtis, RHC.** (2002). *In vivo* immunolocalisation of surface antigens and excreted and secreted products of *Trichinella spiralis* L1. *International Journal of Nematology*, 12: 55-58.

24. Lopez de Mendoza, Me., Abrantes, I.M.O., Rowe, J., **Curtis, R.H.C. (2002).** Immunolocalisation *in planta* of secretions from parasitic stages of *Meloidogyne incognita* and *M. hispanica*. **International Journal of Nematology**, 12: 149-154.
25. Akhkha, A., Kusel, J., Kennedy, M. & **Curtis, R.H.C. (2002).** Effects of phytohormones on the surfaces of plant parasitic nematodes. **Parasitology**, 125: 165-175.
26. J. Keon, **R. Curtis**, H. Cabrera and J. Hargreaves. **(2002).** A genomics approach to crop pest and disease research. **Pesticide Management Science**, 59:143-148.
27. Fioretti, L. Porter, A., Haydock, P. & **Curtis, R.H.C. (2002).** Monoclonal antibodies reactive with secreted-excreted products from the amphids and the cuticle surface of *Globodera pallida* affect nematode movement and delay invasion of potato plants. **International Journal of Parasitology**, 32:1709-1718.
28. Doenhoff, M.J., Stanley, R., Price, D., **Curtis, R.H.C.**, Parry, H., Griffiths, K. & Jackson, C.L. (2003). Identification of a fibrinolytic enzyme in *Schistosoma mansoni* eggs and modulated fibrinogen metabolism in *S. mansoni* infected mice. *Parasitology*. 126, 231-234, 2003
29. Barros, L.M., **Curtis, R.H.C.**, Viana, A.M., Campos, L & Carneiro, M. (2003). Fused Ro1A protein enhances B-glucuronidase activity 50 -fold: implications for Ro1A mechanism of action. *Protein and Peptide Letters*, 10 (3): 303-311, 2003.
30. Guimaraes, P.M, Leal-Bertioli, S.C.M., **Curtis, R.H.C.**, Davis, E. & Bertioli, D. (2001) Isolation of two cDNA encoding a tropomyosin and intermediate filament protein from soybean cyst nematode *H. glycines*. *Nematropica* ;33:87-95.
31. Chen, Q., Brown, D.J.F., **Curtis, R.H.C.** & Jones, J. (2003). Development of the magnetic capture system for recovery of *Xiphinema americanum*. **Nematology**, 5: 359-366, 2003
32. Akhkha, A., **Curtis, R.**, Kennedy, M & Kusel, J. (2004). The potential signaling pathways which regulate surface changes induced by Phytohormones in the potato cyst nematode (*Globodera rostochiensis*). **Parasitology**, 128:533-539.
33. L. M. Lima, M. F. G.-de-Sa, R. A. Pereira & **R. H.C. Curtis.** (2005). Immunolocalisation of Secreted-Excreted Products of *Meloidogyne* spp. Using Polyclonal and Monoclonal Antibodies. *Fitopatologia Brasileira*, 30:629-633. 2005.
34. **R.H.C. Curtis. (2007).** Forum article. Do phytohormones influence nematode invasion and feeding site establishment? *Nematology*, 9:155-160.
35. Stepek, G., **Curtis, R.H.C.**, Kerry, BR, Shewry, P, Clark, S, Lowe, AE, Duce, IR, Buttle, DJ & Behnke, JM.(2007). Nematicidal effects of cysteine proteinases against sedentary plant parasitic nematodes. *Parasitology*, 134: 1-8.
36. **R.H.C. Curtis.** (2007). Plant parasitic nematodes and the host-parasite interactions. Briefings in Functional Genomics and Proteomics. Plant parasitic nematode proteins and the host-parasite interaction 6:50-<http://bfgp.oxfordjournals.org/cgi/content/abstract/6/1/59>
37. Luís FONSECA1, M. Clara VIEIRA dos SANTOS1, M. Susana N. de A. SANTOS1, **Rosane H.C. CURTIS2** and Isabel M. de O. ABRANTES1. (2008). Morphobiometrical characterisation of Portuguese *Bursaphelenchus xylophilus* isolates with mucronate, digitate and round tailed females. *Phytopathology Mediterranea*. 47: 223-233.
38. **Curtis, RHC.** (2008). PLANT-NEMATODE INTERACTIONS: ENVIRONMENTAL SIGNALS DETECTED BY THE NEMATODE'S CHEMOSENSORY ORGANS CONTROL CHANGES IN THE SURFACE CUTICLE AND BEHAVIOUR. *PARASITE*, 15:310-316.
39. Andy M. Reynolds, Tushar K. Dutta, **Rosane H. C. Curtis**, Stephen J. Powers, Hari S. Gaur and Brian R. Kerry. Chemotaxis can take plant-parasitic nematodes to the source of a chemo-attractant via the shortest possible routes *Journal Royal Society Interface*. 8: 568-577, 2011 **(IF= 4,857)**

40. A.Sasaki-Crawley, **R. Curtis**, M. Birkett, S. Powers, A. Papadopoulos, J. Pickett, R. Blackshaw and B. Kerry. Signalling and behaviour of potato cyst nematode in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. *Aspects of Applied Biology*: 103, 45- , 2010.
41. Tushar K. Dutta¹, Stephen J. Powers, Brian R. Kerry, Hari S. Gaur and **Rosane H.C. Curtis**. Comparison of Host Recognition and Reproduction of *Meloidogyne graminicola* and *M. incognita* on Rice and Tomato. *In press* in *Nematology* IF=0.937.
42. Tushar K. Dutta, Stephen J. Powers, Hari S. Gaur Michael Birkett and **Rosane H.C. Curtis**. Effect of small lipophilic molecules of tomato and rice on the behaviour of root-knot nematodes. *Nematology*, 2012, Vol. 14(3), 309-320. IF=0.937.
43. Davies, K. and **Curtis, R.H.C.** (2011). Cuticle Surface Coat of Plant-Parasitic Nematodes. *Annu. Rev. Phytopathol.* 2011. 49:135–56 **IF= 11.0**
44. Dutta, T.K., Powers, S.J, Kerry, B.R., Gaur, H.S and **Curtis, R.H.C.** (2011). Comparison of host recognition, invasion, development and reproduction of *Meloidogyne graminicola* and *M. incognita* on rice and tomato. *Nematology*, 13, 509-520.
45. Carla M. MALEITA ^{1,*}, Maria Clara VIEIRA DOS SANTOS ¹, **Rosane H.C. CURTIS** ², Stephen J. POWERS ³ and Isabel M. de O. ABRANTES. (2011) Effect of the *Mi* gene on reproduction of *Meloidogyne hispanica* on tomato genotypes, *Nematology*, *Nematology*, 13, 939-949.
46. Carla Maria Nobre Maleita, **Rosane Hazelmann Cunha Curtis**, Stephen John Powers and Isabel Maria de Oliveira Abrantes. (2011). Reproduction and virulence of *Meloidogyne 1 hispanica* in cultivated plants. *Nematology*, *In press*.
47. Maleita, C. **R. Curtis** and I. Abrantes. (2012). Thermal requirements for the embryonic development and life cycle of *Meloidogyne hispanica*. *Plant Pathology*, 61, 1002-1010.
48. Maleita, C., Simões, M.J., and Egas, C., **Curtis, R.H.C.**, and Abrantes, I. (2012). Biometrical, Biochemical, and Molecular Diagnosis 1 of Portuguese 2 *Meloidogyne hispanica* Isolates. *Plant Disease*, 96, 865-874.
49. Carla Maria Nobre Maleita, **Rosane Hazelmann Cunha Curtis**, Stephen John Powers and Isabel Maria de Oliveira Abrantes. (2012). Host status of cultivated plants to *Meloidogyne hispanica*. *European Journal of Plant Pathology*, 133, 449-460.
50. Maleita, C.M., **Curtis, R.H.C.**, Powers, S.J. and Abrantes, I.M. de O. (2012) Effects of inoculum levels of *Meloidogyne hispanica* and *M. javanica* on the nematode reproduction and growth of tomato genotypes. *Phytopathologia Mediterranea*, 51, 566-576.
51. DUTTA, T.K., POWERS, S.J., GAUR, H.S., BIRKETT, M. and **CURTIS, R.H.C.** (2012). Effect of small lipophilic molecules in tomato and rice root exudates on the behaviour of *Meloidogyne incognita* and *M. graminicola*. *Nematology*, 14(3), *In press*.
52. Ayano SASAKI-CRAWLEY ^{1,2,*}, **Rosane CURTIS** ¹, Michael BIRKETT ¹, Apostolos PAPADOPOULOS ³, Rod BLACKSHAW² and John PICKETT ¹(2012). The use of Pluronic F-127 to study the development of the potato cyst nematode, *Globodera pallida*. *Nematology*, 14, 869-873.
53. PANKAJ^{1,2}, NIRA MUTTUCUMARU¹, STEPHEN J. POWERS¹, HARI S. GAUR², SMITA KURUP¹ AND **ROSANE H.C. CURTIS**^{1*} (2013) Differential defence response due to jasmonate seed treatment in cowpea and tomato against root-knot and potato cyst nematodes. ***Nematology*. 15 (2013) 15-21.**
54. Alice Teillet, Katarzyna Dybal, Anthony J. Miller, Brian R. Kerry, **Rosane H. C. Curtis** and Peter Hedden. Transcriptional Changes of the Root-Knot Nematode *Meloidogyne incognita* in

55. M. C. Vieira dos Santos & **R. H. C. Curtis** & I. Abrantes. (2013) Effect of plant elicitors on the reproduction of the root-knot nematode *Meloidogyne chitwoodi* on susceptible hosts. Eur J Plant Pathol (2013) 136:193–202.
DOS SANTOS, M.C.V., **CURTIS, R H. C.** & ABRANTES, I. (2013) The combined use of *Pochonia chlamydosporia* with plant defence activators - a potential sustainable control strategy for *Meloidogyne chitwoodi*. *Phytopathologia Mediterranea* (2014) 53, 1, 66.
56. Ayano Sasaki-Crawley^{ac,*}, Katarzyna Dybal^a, Stephen J. Powers^a, Michael Birkett^a, John Pickett^a, David Nelson^b, Rod Blackshaw^c, Renato Carvalho^{ad}, **Rosane Curtis^{ae}**. *Quantitative differences in gene expression of defence genes in Solanum tuberosum and S. sisymbriifolium infected with Globodera pallida*.
57. **Curtis, R.H.C.**, Pankaj, Powers, S.J., Napier, J. and Matthes, M.C. (2013) The *Arabidopsis* F-box/Kelch-Repeat Protein At2g44130 Is Upregulated in Giant Cells and Promotes Nematode Susceptibility. MPMI Vol. 26, No. 1, 2013, pp. 36–43. <http://dx.doi.org/10.1094/MPMI-05-12-0135-FI>.
58. Tushar Dutta, Alison Lovegrove, Hari Shankar Gaur, **Rosane H. C. Curtis**: (2014). *Differential immunoreactivity of the root-knot nematodes, Meloidogyne graminicola and Meloidogyne incognita to polyclonal and monoclonal antibodies and identification of antigens through proteomics approach*. African journal of microbiology research 03/2014; 8(11):1245-1254. DOI:10.5897/AJMR2013.6450
59. A Duarte, C Maleita, I Tiago, **R Curtis**, I Abrantes. (2014) Molecular characterization of putative parasitism genes in the plant-parasitic nematode *Meloidogyne hispanica*. J. helminthology, 1-11.
60. Aida DUARTE, Carla MALEITA, Isabel ABRANTES and **Rosane CURTIS**. (2014) Tomato root exudates induce transcriptional changes of *M. hispanica* genes. *Phytopathologia Mediterranea* 01/2015; 54(1):193-198.
61. Aida Duarte, **Rosane Curtis**, Carla Maleita, Igor Tiago, Isabel Abrantes . (2014) Characterization of the venom allergen—like protein (vap-1) and the fatty acid and retinol binding protein (far-1) genes in *Meloidogyne hispanica* Eur. J. Plant Pathol. 139:825-836.
62. A. Duarte, C. Maleita, C. Egas, I. Abrantes and **R. Curtis** (2015). RNAi silencing of the venom allergen like protein (*Mhi-vap-1*) gene in the root-knot nematode *Meloidogyne hispanica*. *In preparation*.

➤ **Non-refereed publication:**

1. Fonseca, L., **Curtis, R. H. C.**, Vieira dos Santos, M. C. and Abrantes, I. M. de O. (2005). Detecção Imunológica do nemátode-da-madeira-do-pinheiro, *Bursaphelenchus xylophilus*. In: A Produção Integrada e a Qualidade e Segurança Alimentar – Actas do VII Encontro Nacional de Proecção Integrada. Coimbra, Portugal, pp. 209-215.
2. Fonseca, L., **Curtis, R. H. C.**, Halsey, K., Vieira dos Santos, M. C., Abrantes, I. M. de O. and Santos, M. S. N de A. (2006). Morphological, molecular and serological characterization of *Bursaphelenchus xylophilus* isolates. International symposium: Pine wilt disease: A worldwide threat to forest ecosystems, 10-14 July, Lisbon, Portugal.

➤ **Abstracts in international and national conferences.**

1981

1. **Cunha**, R.H., Baueb, S., Mariano, O.N., Silva, A.A., Chaves, J. & Vaz, C.A.C. (1981). Haemolytic activity of Complement and Cleavage of C3 in Canine Visceral Leishmaniasis. Scientific Communication of the Institute of Tropical. Medicine of Sao Paulo, pp.77.

1983

2. Silva, A.A., **Cunha**, R.H., Mariano, O.N., Vaz, C.A.C. & Chaves, J. (1983). *Leishmania donovani*: I. gel-filtration of circulating antigens. II. Purification of the circulating antigens from gel-filtration and coagulation of the proteins. III. Action of the circulating antigens on C3. Scientific Communication of the Institute of Tropical Medicine of Sao Paulo, pp.15-17.

1988

3. Adeoye, G.O., Modha, J., **Curtis**, R.H.C. and Doenhoff, M.J. Purification and characterization of Glutathione-S-transferase from *Schistosoma mansoni*. In: Proceedings British Society for Parasitology Spring Meeting, Reading University, 23-25th March 1988. Reading, UK.

4. Doenhoff, M.J., **Curtis**, R.H.C., Adeoye, G.O. and Modha, J. (1988). Identification of some proteolytic enzymes in *Schistosoma mansoni*. In: Proceedings British Society for Parasitology Spring Meeting, Reading University, 23-25th March 1988. Reading, UK.

1989

5. Modha, J., **Curtis**, R.H.C. and Doenhoff, M.J. The interaction of a protease from *Schistosoma mansoni* cercariae with host serum protease inhibitors. In: Proceedings British Society for Parasitology Joint Spring Meeting, University of Southampton, 20-22th March 1989. Southampton, UK.

6. Adeoye, G.O., Modha, J., **Curtis**, R.H.C. and Doenhoff, M.J. Characterization of an alkaline phosphatase in *Schistosoma mansoni* worms. In: Proceedings British Society for Parasitology Joint Spring Meeting, University of Southampton, 20-22th March 1989. Southampton, UK.

7. Doenhoff, M.J., **Curtis**, R.H.C., Modha, J. and Bickle, Q. A potentially immunoprotective 480 kD antigen in *Schistosoma mansoni*. In: Proceedings British

Society for Parasitology Joint Spring Meeting. University of Southampton, 20-22th March 1989. Southampton, UK.

8. Curtis, R.H.C. and Doenhoff, M.J. Characterization of a fibrinolytic protease of *Schistosoma mansoni*. In: Proceedings British Society for Parasitology Joint Spring Meeting, University of Southampton, 20-22th March 1989. Southampton, UK.

9. Curtis, R.H.C., Modha, J. and Doenhoff, M.J. Characterization of a *Schistosoma mansoni* cercarial protease. In: Proceedings British Society for Parasitology Joint Spring Meeting, University of Southampton, 20-22th March, 1989. Southampton, UK.

1992

10. Miller, C., **Curtis, R.H.C.**, Ahari, E. and R.Cooper. *Schistosoma mansoni* antigen Sm480: A test for the blocking antibody hypothesis of schistosome immunity. In: Proceedings British Society for Parasitology Spring Meeting, University of York, 6-8- April, 1992, York, UK.

11. Curtis, R.H.C., Robinson, M., Davies, K. and Evans, K. Differentiation of *Globodera rostochiensis* and *Globodera pallida* using monoclonal antibodies - partial characterization of the antigens recognized by MR8/4 and MR8/5. In: Proceedings of the Association of Applied Biologists, 16th Dec 1992, London.

1995

12. Curtis, R.H.C. Identification of pharyngeal gland secretions of cyst nematodes using monoclonal antibodies. In: Proceedings of the British Society for Parasitology, 10-12 April 1995, Edinburgh, Scotland.

13. Curtis, R.H.C. & Jones, J.T. (1995). Identification and characterisation of cyst nematode secretions using MAbs. *Nematropica*, **25**: 84.

14. Dunn, J., **Curtis, R.H.C.** & Evans, K (1985). Proving an immunoassay for work with potato cyst nematodes. *Nematropica*, **25**: 87.

15. Ramos, B., **Curtis, R.H.C.**, Burrows, P. Evans, K. & Haydock, P. (1995). The potential for resistance to cyst nematodes in transgenic plants which express antibodies. *Nematropica*, **25**: 99.

16. Ramos, B., **Curtis, R.H.C.**, Burrows, P. Evans, K. & Haydock, P. The potential for resistance to cyst nematodes in transgenic plants which express antibodies. British Crop Protection Conference Proceedings. "Sustainability in Agriculture", Sept. 1995. Edinburgh, Scotland.

1996

17. Yousofi, H.; **Curtis, R.H.C.** & Doenhoff, M.J. Anomalous immunological properties of a *S. mansoni* larval protease. In: Proceedings of the British Society for Parasitology. Bangor, 1996. Wales.

18. Curtis, R.H.C. (1996). Characterisation of two antigens from cereal cyst nematode secretions using monoclonal antibodies. Proceedings of Third International Nematology Congress. July, 7-12, 1996. Gosier, Guadeloupe.

1997

19. Doenhoff, M., Yosofi, D. Price, H.P., **Curtis, R.H.C.** & Sayers, J.R. Modulated immunogenicity of a 27 kDa *Schistosoma mansoni* larval protease associated with protective

immunity. In: Proceedings of the British Society for Parasitology. 8-10 April 1997. Manchester, UK.

20. Mendonca, M.E.L., **Curtis, R.H.C.** & Gowen, S. Identification of *M. incognita* cuticle surface antigens using monoclonal antibodies. In Proceedings of the British Society for Parasitology. 8-10 April 1997. Manchester, UK.

21. Fioretti, L., **Curtis, R.H.C.**, Burrows, P. & Haydock. P. Resistance to cyst nematodes in transgenic plants which express antibodies: Identification of suitable

7

anti-nematode genes. In: Proceedings of the Association of Applied Biologists, 17 Dec 1997. London.

1998

22. Curtis, R.H.C., Lopez de Mendoza, Rowe, J. & Gowen, S. Immunolocalisation in planta of a 14kDa cuticular exudation of *M. incognita*. 24th International Nematology Symposium, 4th-9th August 1998, Dundee, Scotland

23. Fioretti, L., Curtis, R.H.C., Burrows, P. & Haydock, P.P.J. Identification and characterisation of potential anti-nematode genes for resistance against the potato cyst nematodes *Globodera pallida* and *G. rostochiensis*. 24th International Nematology Symposium, 4th-9th August 1998, Dundee, Scotland.

24. Lopez, M. M., Curtis, R.H.C., Gowen, S., Characterisation and immunolocalisation of secretions in various developmental stages of *M. incognita*. 24th International Nematology Symposium, 4th-9th August 1998, Dundee, Scotland.

25. Fioretti, L., Curtis, R.H.C., Burrow, P. & Haydock, P. Identification of potential anti-nematode monoclonal antibodies to be expressed in plants for resistance against the potato cyst nematodes. In: Proceedings of the British Society for Parasitology. 5th-8th April 1998. Exeter, UK.

26. Lopez, M.M., Curtis, R.H.C., Modha, J. & Gowen, S. Identification of excreted and secreted products from parasitic nematodes using monoclonal antibodies. In: Proceedings of the British Society for Parasitology. 5th-8th April 1998. Exeter, UK.

1999

27. Lopez, M.M. & Curtis, R.H.C. (1999). Immunolocalisation of *Trichinella spiralis* secreted and surface antigens with MAb produced against a plant-parasitic nematode. In: Proceedings of the British Society for Parasitology. Veterinary Parasitology. Sep, 1999, London.

28. Curtis, R.H.C., Lopez, M.M., Abrantes, I. & Gowen, S. (1999). Immunolocalisation *in planta* of nematode secretions. In: Proceedings of the Association of Applied Biologists, 17th December 1999, London.

2000

29. Sharon, E., Spigel, Y, & Curtis, RHC. (2000). Characterization of *Meloidogyne javanica* surface coat using antibodies and their effect on nematode behaviour. International Nematology Symposium, 2-7 April, 2000. Israel.

2001

30. Chen,Q., Curtis, RHC., Brown, D. & Jones, J. (2001) *An immunological approach to identify proteins important for the host-parasite interactions of Xiphinema americanus and X. index.* In: Proceedings of the British Society for Parasitology, 17-20 April, Keele, UK.

31. Holeva, R., Neilson, R., Chen, Q., Curtis, RHC, Jones, J., Brown, D. (2001). Screening lectins for specific attachment to virus-vector *Paratrichodorus anemones*. Phytopathology, 91: S39.

32. Chen, Q., Curtis, R., Brown, D. & Jones, J. (2001). *Construction and preliminary*

screening of monoclonal antibodies prepared against Xiphinema index. Phytopathology, 91: S15.

33. Chen, Q., **Curtis, R.** Brown, D. & Jones, J. (**2001**). Production and characterisation of monoclonal antibodies against *Xiphinema index*. In: Proceedings of the Association of Applied Biologists, 11 December 2001, London.

8

2002

34. Chen, Q., Furlanetto, C., Brown, D., **Curtis, RHC.** & Jones, J. (2002). Proteins and expressed genes of the ectoparasite *Xiphinema Index*. In: Proceedings of British Society for Parasitology.
35. Chen, Q., **Curtis, RHC.**, Lamberti, F., Moens, M., Brown, D. & Jones, JT. Using monoclonal antibodies to discover parasitism proteins from the virus-vector nematode *X. index*. FINC-Fourth International Congress of Nematology, 8-13th June 2002, Tenerife.
36. Chen, Q., Lee, R., **Curtis, RHC.**, Jones, JT. & Brown, D. Immuno-magnetic capture (IMC): a novel approach to nematode diagnostics. FINC-Fourth International Congress of Nematology, 8-13th June 2002, Tenerife.
37. Holeva, R., Chen, Q., **Curtis, RHC**, Neilson, R., Jones, JT., Block, V. & Brown, D. Magnetic separation of a tool in a sample preparation procedure for direct detection and quantification of *Trichodorid* nematodes. FINC-Fourth International Congress of Nematology, 8-13th June 2002, Tenerife.
38. Akhkha, A., Kusel, J., Kennedy, M. & **Curtis, R.H.C.** Effects of phytohormones on the surfaces of plant parasitic nematodes. FINC-Fourth International Congress of Nematology, 8-13th June 2002, Tenerife.

2003

39. Lima. L.M.1; Grossi-de-Sá, M.F. 1 and **Curtis, R.H.C.** Identification of protein on *Meloidogyne incognita* surface using polyclonal antibodies against secreted-excreted proteins. Congresso of Biochemistry, March 2003, Caxambu, Minas Gerais, Brazil.
40. **Curtis, R.H.C.**, Fioretti, L., Porter, A., Haydock, P. Monoclonal antibodies reactive with secreted-excreted products from the amphids and the cuticle surface of *Globodera pallida* affect nematode movement and delay invasion of potato plants. 55th Symposium on Crop Protection. May 2003, Ghent, Belgium.

2004

41. L. Fioretti, A. Porter, PJ Haydock, Y. Pang, K. Tang and **RHC Curtis**. Recombinant single chain antibody reactive with secreted-excreted products of *Globodera pallida* affect nematode movement and invasion of potato roots. XXVII International Symposium of the European Society of Nematologists, Rome, 14-18 June 2004.
42. Y. Pang, K. Tang and **RHC Curtis**. The effect of lectins on *Globodera pallida* behaviour. XXVII International Symposium of the European Society of Nematologists, Rome, 14-18 June 2004.
43. **Curtis, RHC**. Cloning and analysis of genes from the amphids and cuticle surface of *Globodera pallida* and *Caenorhabditis elegans*. XXVII International Symposium of the European Society of Nematologists, Rome, 14-18 June 2004.

2005

44. Fonseca, L., Curtis, **R.H.C. Curtis**, dos Santos, M.C.V. & Abrantes, I. VII Meeting for integrated control, Coimbra, Portugal, pp. 209-215, 2005.

2006

45. Fonseca, L., **Curtis, R.H.C.**, Halsey, K. Vieira dos Santo, M. C. e Abrantes, I. M. de O. (2006). The use of monoclonal phage antibodies for the detection of the pinewood nematode, *Bursaphelenchus xylophilus*. *Abstracts of the XXVIII Symposium of the European Society of Nematologists*, Blagoevgrad, Bulgaria, 05-09 June 2006, p. 152. 9

46. **Curtis, RHC**, Maguire, K., Kerry, B. and Lovegrove, A. (2006). *XXVIII Symposium of the European Society of Nematologists*. Blagoevgrad, Bulgaria, 05-09 June 2006, p. .47

45. Fonseca, L., **Curtis, R. H. C.**, Halsey, K., Vieira dos Santos, M. C., Abrantes, I. M. de O. and Santos, M. S. N de A. (2006). Morphological, molecular and serological characterization of *Bursaphelenchus xylophilus* isolates. *Abstracts of the International symposium: Pine wilt disease: A worldwide threat to forest ecosystems*, Lisbon, Portugal, 10-14 July, pp. 63-64.

46. Fonseca, L. **Curtis, R. H. C.**, Halsey, K., Vieira dos Santos, M. C., Abrantes, I. M. de O. and Santos, M. S. N de A. (2006). Immunological detection of the pine wood nematode. AAB, Nematology meeting, London, December.

2007

47. Fonseca, L., **Curtis, RHC.**, Santos, MCV., Abrantes, I. Immunological detection of the pinewood nematode from *Pinus pinaster* and the vector. Biennial Conference of the Systematics Association. Royal Botanic Gardens, Edinburgh, Scotland, August 2007.

48. Fonseca, L., **Curtis, RHC.**, Halsey, K., Santos, MCV., Abrantes, I. and Santos MSNA. Immunological probes for the identification of the pinewood nematode, *Bursaphelenchus xylophilus*. 50. Congresso da Sociedade Portuguesa de Fitopatologia, Coimbra, Portugal, November 2007.

49. **R.H.C. Curtis**, Maguire, K. and Lovegrove, A. Environmental signals detected by the nematode's chemosensory organs control changes in the surface cuticle and behaviour. Cost meeting, INRA, Sofia Antipolis, France. 9-11 May 2007.

2008

50. Fudali, S.; Curtis, RHC & Golinowsky, W. The role of border cells and root tip exudates in the plant nematode interactions. COST meeting 872. 2nd Annual meeting, Slovenia, 26-29 May 2008.

51. Curtis, R.H.C., Maguire, K., Gilbert, S.& Kerry, B. R. The nematocidal properties of cysteine proteinases and their potential to control plant parasitic nematodes. 5th International Nematology Congress. Brisbane, Australia. July 2008.

52. Fonseca, L., Vieira dos Santos, M.C., Curtis, RHC. & Abrantes, IMG. Insights into virulence of Portuguese *Bursaphelenchus xylophilus* isolates by ITS-RFLP analysis. 5th International Nematology Congress. Brisbane, Australia. July 2008.

53. Maleita, C., Vieira dos Santos, MC., Curtis, RHC. & Abrantes, IMG. Influence of temperature on the life-cycle of the root-knot nematode, *Meloidogyne hispanica*. 5th International Nematology Congress. Brisbane, Australia. July 2008.

54. Curtis, RHC. PLANT-NEMATODE INTERACTIONS: ENVIRONMENTAL SIGNALS DETECTED BY THE NEMATODE'S CHEMOSENSORY ORGANS CONTROL CHANGES IN THE SURFACE CUTICLE AND BEHAVIOUR. 10th European Colloquium of Parasitology. August 2008. Paris. France.

2009

55. **Curtis, R.H.C** & Kerry, B. R. (2009). PLANT-NEMATODE INTERACTIONS: INDOLE SIGNALS DETECTED BY THE NEMATODE'S CHEMOSENSORY ORGANS CONTROL CHANGES IN THE SURFACE CUTICLE AND BEHAVIOUR. 19th NSSA symposium, May 2009, Hazyview, Mpumalanga, South Africa. (Talk)

56. **Curtis, R.H.C.**, Maguire, K., Gilbert, S.& Kerry, B. R. The nematocidal properties of cysteine proteinases and their potential to control plant parasitic nematodes. 19th NSSA symposium, May 2009, Hazyview, Mpumalanga, South Africa. (Poster)

- 57. Curtis, R.H.C.**, Birkett, M. A., Pye, B., Pickett, J. A. & Kerry, B. (2009). Investigating the impact of plant activators upon induced plant defence against root-knot nematode and potato cyst nematode infection in tomatoes. COST 872 Meeting, 25th – 28th May 2009, Toledo, Spain. (Talk)
- 58. Sasaki-Crawley, A. Curtis, RHC.** (2009). The interaction of *Medicago truncatula skl* and *sunn* mutants with *Meloidogyne incognita*. COST 872 Meeting, 25th – 28th May 2009, Toledo, Spain. (Poster)
- 59. Curtis, RHC.**, Birkett, M., Pye, B., Pickett, J. and Kerry, K. (2009). Aspects of the plant-nematode interactions: host recognition and plant signalling molecules. 2nd. International conference of Tropical Nematology. October 2009, Maceio, Brazil. (invited talk)
- 60. Maleita, C.M.; Curtis, R.H.C.; Abrantes, I.M. de O.** (2009). EFFECT OF THE *MI* GENE ON REPRODUCTION OF *Meloidogyne hispanica* ON TOMATO GENOTYPES. 2nd. International conference of Tropical Nematology. October 2009, Maceio, Brazil. (Poster)
- 61. Curtis, RHC,** Pankaj, Matthews, M., Birkett, M, Pye, B, Napier, J, Pickett, J. and Kerry, B. (2009). Investigating the impact of plant activators upon induced plant defences against plant nematodes. AAB meeting Advances in Nematology, 16th December 2009, London. (Talk)
- 62. Sasaki-Crawley, A; Curtis, RHC.** Birkett, M.; Pickett, J., Blackshaw, R and Kerry, B. (2009). Signalling and behaviour of the potato cyst nematode, *Globodera pallida* in the rhizosphere of *Solanum sisymbriifolium*. AAB meeting Advances in Nematology, 16th December 2009, London. (Poster).

2010

- 63. Curtis, R.H.C.**, Birkett, M. A., Pye, B., Pickett, J. A. & Kerry, B. Investigating the impact of plant activators upon induced plant defence against root-knot nematode and potato cyst nematode infection in tomatoes. COST Meeting 872 – Exploiting genomics to understand plant-nematode interactions. May 2010, Lisbon, Portugal.
- 64. Rosane H. C. Curtis,** Michaela Matthes and Pankaj Singh. Expression of *Arabidopsis* F-box during root-knot nematode infection. International European Society of Nematology. September 2010, Vienna, Austria.
- 65. Sam Gorny,** Allison Lovegrove, Satoshi Yuzawa, Jerzy Behnke, **Rosane Curtis.** The Nematicidal Effect of Cysteine Proteinases. International European Society of Nematology. September 2010, Vienna, Austria.
- 66. A.Sasaki-Crawley, R. Curtis,** M. Birkett, S. Powers, A. Papadopoulos, J. Pickett, R. Blackshaw and B. Kerry. Signalling and behaviour of potato cyst nematode in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. International European Society of Nematology. September 2010, Vienna, Austria.
- 67. Carla M. Maleita, Rosane H. C. Curtis** and Isabel M. de O. Abrantes. Morpho-biometrical and biochemical characterization of six isolates of the root-knot nematode *Meloidogyne hispanica*. International European Society of Nematology. September 2010, Vienna, Austria.
- 68. Tushar K. Dutta,** Allison Lovegrove, Hari S. Gaur and **Rosane H.C. Curtis.** Differential immunoreactivity of the of the Root-knot Nematodes, *Meloidogyne graminicola* and *M. incognita* to Polyclonal and Monoclonal Antibodies and Identification of Antigens by Proteomics Approach. International European Society of Nematology. September 2010, Vienna, Austria.

69. Carla M.N. Maleita, Maria Clara Vieira dos Santos, **Rosane H. Curtis** and Isabel Abrantes. Virulence of a *Meloidogyne hispanica* isolate on pepper cultivars. International European Society of Nematology. September 2010, Vienna, Austria.

70. A.Sasaki-Crawley, **R. Curtis**, M. Birkett, S. Powers, A. Papadopoulos, J. Pickett, R. Blackshaw and B. Kerry. Signalling and behaviour of potato cyst nematode in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. 3rd Symposium on Potato Cyst Nematodes, August 2010.

71. A.Sasaki-Crawley, **R. Curtis**, M. Birkett, S. Powers, A. Papadopoulos, J. Pickett, R. Blackshaw and B. Kerry. Signalling and behaviour of potato cyst nematode in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. AAB Nematology Meeting in London. December 2010.

72. Gorny, S. Allison Lovegrove, Satoshi Yuzawa, Jerzy Behnke, **Rosane Curtis**. The Nematicidal Effect of Cysteine Proteinases. AAB Nematology Meeting in London. December 2010.

73. Teillet A.; Dybal, K. A. Miller, Hedden, P. and **R. Curtis**. What do nematodes like so much about plants. AAB Nematology Meeting in London. December 2010.

2011

74. Pankaj, **Rosane H.C. Curtis**, N. Muttucumaru, S. Kurup, H. Gaur and B.R. Kerry. Seed Treatment with Jasmonates Reduce Nematode Infection of Plants. Conference on Innovations in Nematological Research for Agricultural Sustainability. Challenges and Roadmap Ahead, 23-25, Feb, 2010 at TNAU, Coimbatore, India.

75. Tushar Dutta^{1,2}, Stephen Powers², Michael Birkett², Harish Gaur¹ and Rosane H.C. Curtis². Small lipophilic molecules of tomato and rice affected the behaviour of root-knot nematode. ONTA meeting, September 2011, Coimbra, Portugal.

76. Alice Teillet, Katarzyna Dybal, Anthony J. Miller, Brian R. Kerry, Rosane H.C. Curtis and Peter Hedden. Sterile Arabidopsis thaliana root exudates induce changes in root knot nematode behaviour and gene expression. ONTA meeting, September 2011, Coimbra, Portugal.

77. Ayano Sasaki-Crawley^{1,3}, Rosane H.C. Curtis¹, Michael A. Birkett¹, Stephen J. Powers¹, Apostolos Papadopoulos², Rod P. Blackshaw³ and John A. Pickett¹ How does *Solanum sisymbriifolium* affect *Globodera pallida* behaviour? ONTA meeting, September 2011, Coimbra, Portugal.

78. Tushar K. Dutta^{1,2}, Allison Lovegrove¹, Hari S. Gaur² and Rosane H.C. Curtis¹ Differential immunoreactivity of the of the Root-knot Nematodes, *Meloidogyne graminicola* and *M. incognita* to Polyclonal and Monoclonal Antibodies and Identification of Antigens by Proteomics Approach. ONTA meeting, September 2011, Coimbra, Portugal.

79. Aida Aida Duarte^{1,2}, Alice Teillet², Rosane Curtis², Isabel Abrantes¹ Molecular characterization of the venom allergen-like protein gene in *Meloidogyne hispanica*. ONTA meeting, September 2011, Coimbra, Portugal.

80. M. Clara Vieira Santos¹, Rosane H.R. Curtis², Isabel M. Abrantes¹. Induced plant defence against the root-knot nematode *Meloidogyne chitwoodi*. ONTA meeting, September 2011, Coimbra, Portugal

81. Carla M.N. Maleita¹, Maria José Simões², Rosane H. Curtis³ and Isabel Abrantes¹
Molecular diagnosis of *Meloidogyne hispanica* using mtDNA-PCR-RFLP. ONTA meeting,
September 2011, Coimbra, Portugal

12

82. SD Berry, RS Rutherford and RH Curtis. NEMATODES OF SUGARCANE – PRELIMINARY INVESTIGATIONS: RESISTANCE INDUCING CHEMICALS. Nematology Society of South Africa Symposium, Cape town, South Africa, 2011.

83. Aspects of the behaviour of *Globodera pallida* in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. Aspects of the behaviour of *Globodera pallida* in the rhizosphere of the trap crop, *Solanum sisymbriifolium*. A JOINT MEETING OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON AND THE SOIL ECOLOGY SOCIETY. 14-16 SEPTEMBER 2011, PLYMOUTH, UK.

84. Tushar K. Dutta, Hari S. Gaur & Rosane H.C. Curtis. Identification of antigens of root-knot nematodes, *Meloidogyne graminicola* and *M. incognita* involved in differential host preference by Proteomics approach. National Symposium on Nematodes: A challenge under changing climate and agricultural practices. Nov, 2011, Kerala.

85. Ayano Sasaki-Crawley^{1,3}, Rosane H.C. Curtis¹, Michael A. Birkett¹, Stephen J. Powers¹, Apostolos Papadopoulos², Rod P. Blackshaw³ and John A. Pickett Plant–nematode interactions: *Globodera pallid* and *Solanum sisymbriifolium*. AAB meeting, Dec. 2011, London

86. Teillet, A., Katarzyna Dybal, Anthony J. Miller, Brian R. Kerry, Rosane H.C.Curtis and Peter Hedden. Sterile *Arabidopsis thaliana* root exudates induce changes in root knot nematode behaviour and gene expression. AAB meeting, Dec. 2011, London.

2012

87. Gorny, S., Curtis, R., Kurup, S., Allison Lovegrove, Satoshi Yuzawa, Duce, I., Benhke, J. and Butle, D. Cysteine Proteinases: Nematode Nemesis. Conference: Molecular Biology of Plant Pathogens, April 2012, Reading UK.

88. Alice Teillet, Katarzyna Dybal, Anthony J. Miller, Brian R. Kerry, **Rosane H. C. Curtis** and Peter Hedden. Sterile *Arabidopsis thaliana* root exudates induce changes in root knot nematode behaviour and gene expression. Conference: Molecular Biology of Plant Pathogens, April 2012, Reading UK