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1. *Curriculum vitae*

1.1. Personal and Professional Data

Name: Trevor Neil PETNEY
Place and date of birth: Adelaide, Australia; 5th July 1952
Citizenship: Australia
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Home address: Krokusweg 6, 76669 Bad Schönborn, Germany.
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Education:

1974 B.Sc., Adelaide University
1975 B.Sc. (hons.), Adelaide University
1982 Ph.D., Flinders University

Professional experience:

02.82 - 02.85 Assistant Professor at Yarmouk University, Jordan
05.85 - 10.88 Research Officer and Senior Research Officer at Rhodes University, South Africa
11.88 - 12.89 Temporary Senior Veterinary Officer, Veterinary Research Institute, Onderstepoort, South Africa
12.90 - 03.97 Wissenschaftlicher Mitarbeiter/Wissenschaftlicher Angestellter, Parasitology Department, Hygiene Institute, University of Heidelberg, Germany

- 04.97 - 09.03 Manager "English Scientific Correction and Translation Services", Visiting Research Fellow, Department of Environmental Biology, University of Adelaide, Australia.
- 10.03 – 05.07 Manager "English Scientific Correction and Translation Services", Adjunct Associate Professor, School of Pharmaceutical, Molecular and Biomedical Sciences, University of South Australia.
- From June 2005: Visiting Scientist at the Zoology Institute, Department of Ecology and Parasitology, University of Karlsruhe
- From 05.07 Beschäftigter im wissenschaftlichen Dienst (Lecturer), Zoology Institute, Department of Ecology and Parasitology, University of Karlsruhe
- From 07.14 Visiting Professor, Chonangiocarcinoma Care and Prevention Program (CASCAP), Faculty of Medicine, Khon Kaen University, Thailand.

1.2. Research Interests

Pathogen-host-vector ecology

Host-vector-pathogen systems are often extremely complex, making predictive statements about the population dynamics of any level difficult. However, in the case of medically important pathogens an understanding of the factors controlling population dynamics is critically important for our attempts at disease prediction and control. Our studies of this problem are currently concentrated on disease-vector-host systems using ticks (Ixodoidea) as a common vector group. These include a long-term study in Baden-Württemberg looking at the role of small mammal hosts and habitat, including microclimate, in driving the dynamics of *Ixodes ricinus* populations as well as the prevalences of the pathogens which this species transmits. A second project in Rhineland-Palatinate aims at including large wild animals and sheep to the small mammal/habitat study.

Opisthorchis viverrini: systematics and epidemiology.

O. viverrini is a major human pathogen in the area of the lower Mekong and its tributaries (Laos, Thailand, Cambodia, and Vietnam). Estimates of 17 million infected attest to its importance, especially as it is a major cofactor in the development of bile duct cancer. For some time there have been epidemiological discrepancies in *O. viverrini* infections in different geographical areas of Thailand and Laos. The aim of this project is to carry out a detailed population genetic

analysis of different *O. viverrini* populations and relate possible variation to the epidemiology. To date we have shown "*O. viverrini*" comprises at least two species and that these species are confined to different watersheds. In addition we have found that the seasonal cycle of prevalence reported previously (on which control programs are potentially based) does not exist, having possibly been disrupted by local control programs. This information has already provided a major advance in our knowledge of this species. This project has been funded by the Wellcome Trust.

Land-use and other environmental changes as a driving factor determining the community of human pathogens.

This study is also being carried out in the Lower Mekong Subregion of Southeast Asia. Its aim is to document for a number of parasite species, including *O. viverrini*, intestinal flukes and malaria, how environmental change influences pathogen distribution and prevalence. As a preliminary to studying individual species, a paleoecological and historical literature survey as well as a current survey of infectious diseases in the northeast of Thailand is being carried out. As a theoretical framework, we are using the publications by Dobson and Carper (1996) Patz et al. (2003) and Wolfe et al. (2007) with a temporal division into early hunter-gatherer societies, the development of agriculture, human population increase and the development of large urban societies, the modern era of mass movement. Our current work includes the determination of potential parasite transfer between humans and primates, the role of rubber plantation growth and the potential reintroduction of malaria, how hydrological modification is likely to change the epidemiology of water-borne pathogens and the role of aquaculture in parasite transfer.

2. Publications

2.1. Original publications and review articles in peer-reviewed journals

1. Petney, T. N. and Bull, C. M. 1981. A non-specific aggregation pheromone in two Australian reptile ticks. **Animal Behaviour** **29**: 181 - 185.
2. Bull, C. M., Sharrad, R. D. and Petney, T. N. 1981. Parapatric boundaries between Australian reptile ticks. **Proceedings of the Ecological Society of Australia** **11** : 95 - 107.
3. Andrews, R. H. and Petney, T. N. 1981. Competition for sites of attachment to hosts in three parapatric species of reptile tick. **Oecologia** **51**: 227 - 232.
4. Andrews, R. H., Petney, T. N. and Bull, C. M. 1982. Reproductive interference between three parapatric species of reptile tick. **Oecologia** **52**: 281 - 286.
5. Andrews, R. H., Petney, T. N. and Bull, C. M. 1982. Niche changes between parasite populations: an example from ticks on reptiles. **Oecologia** **55**: 77 - 80.
6. Petney, T. N., Bull, C. M. and Andrews, R. H. 1982. A stable boundary between two species of reptile tick on Eyre Peninsula, South Australia. **Transactions of the Royal Society of South Australia** **106**: 158 - 161.
7. Petney, T. N. and Andrews, R. H. 1982. The influence of similar aggregation pheromones on microhabitat choice of two parapatric species of tick (Acarina: Ixodidae). **Oecologia** **55**: 364 - 368.
8. Petney, T. N., Andrews, R. H. and Bull, C. M. 1983. Movement and host finding by unfed nymphs of two Australian reptile ticks. **Australian Journal of Zoology** **31**: 717 - 721.
9. Petney, T. N. and Bull, C. M. 1984. Microhabitat selection by two Australian reptile ticks at their parapatric boundary. **Australian Journal of Ecology** **9**: 233 - 239.
10. Petney, T. N. and Al Yaman, F. 1985. Attachment sites of the tortoise tick, *Hyalomma aegyptium*, in relation to tick density and the physical condition of the host. **Journal of Parasitology** **71**: 287 - 289.
11. Petney, T. N. and Zwölfer, H. 1985. Phytophagous insects associated with Cynareae hosts in Jordan. **Israeli Journal of Entomology** **19**: 147 - 159.
12. MacIvor, K. M., Horak, I. G., Holton, K. C. and Petney, T. N. 1987. An evaluation of live and destructive sampling techniques to determine parasitic tick populations. **Experimental and Applied Acarology** **3**: 131 - 143.

13. Petney, T. N. and Horak, I. G. 1987. The effect of dipping on free-living and parasitic populations of *Amblyomma hebraeum* on a farm and on an adjacent nature reserve. *Onderstepoort Journal of Veterinary Research* 54: 529 - 533.
14. Petney, T. N., Horak, I. G. and Rechav, Y. 1987. The ecology of the African vectors of heartwater, with particular reference to *Amblyomma hebraeum* and *Amblyomma variegatum* (Acari: Ixodidae). *Onderstepoort Journal of Veterinary Research* 54: 381 - 395.
15. Horak, I. G., MacIvor, K. M., Petney, T. N. and de Vos, V. 1987. Some avian and mammalian hosts of *Amblyomma hebraeum* and *Amblyomma marmoreum* (Acari: Ixodidae). *Onderstepoort Journal of Veterinary Research* 54: 397 - 403.
16. Holley, A. D. and Petney, T. N. 1988. The use of domestic chickens as laboratory hosts for the Bont Tick, *Amblyomma hebraeum*. *Onderstepoort Journal of Veterinary Research* 55: 75 -76.
17. Dower, K. D., Petney T. N. and Horak, I. G. 1988. The relative success of natural infestations of the ticks *Amblyomma hebraeum* and *Amblyomma marmoreum* on Leopard Tortoise, *Geochelone pardalis*. *Onderstepoort Journal of Veterinary Research* 55: 11 - 13.
18. Petney, T. N. 1988. Demonstration of aggregation in free-living nymphs and adults of the Bont Tick, *Amblyomma hebraeum* Koch, 1844. *Journal of Parasitology* 74: 375 - 378.
19. Petney, T. N. and Horak, I. G. 1988. Comparative host usage by *Amblyomma hebraeum* and *Amblyomma marmoreum*, the african vectors of the disease heartwater. *Journal of Applied Entomology* 105: 490 - 495.
20. Fourie, L. J., de Jager, T. and Petney, T. N. 1988. The influence of prolonged or repeated copulation on longevity of male *Ixodes rubicundus* (Acari: Ixodidae). *Journal of Parasitology* 74: 609 - 612.
21. Petney, T. N. and Knight, M. M. 1988. The removal of ticks from tortoises using Amitraz. *Journal of the South African Veterinary Association* 59: 206.
22. Petney, T. N. 1988. The influence of insect attack on the reproductive success of eight species of thistle (Compositae: Cynareae) in Jordan. *Entomologia Generalis* 14: 25 - 35.
23. Fourie, L. J., Petney, T. N., Horak, I. G. and de Jager, C. 1989. The seasonal pattern of attachment weights of female *Ixodes rubicundus* on a naturally infested flock of sheep. *Veterinary Parasitology* 33: 319 - 328.

24. Petney, T. N., Fourie, L. J. and de Jager, C. 1989. The effect of the pattern of attachment weights of female *Ixodes rubicundus* in a naturally infested flock of sheep. **Veterinary Parasitology 33**: 177 - 186.
25. Howell, D. J., Petney, T. N. and Horak, I. G. 1989. Host status of the striped mouse, *Rhabdomys pumilio*, in relation to the tick vectors of heartwater in South Africa. **Onderstepoort Journal of Veterinary Research 56**: 289 - 291.
26. Fivaz, B. H. and Petney, T. N. 1989. Lyme disease: a new disease in South Africa? **Journal of the South African Veterinary Association 60**: 155-158.
27. Petney, T. N. and Fourie, L. J. 1990. The dispersion of the Karoo paralysis tick, *Ixodes rubicundus*, within a naturally infested flock of sheep in South Africa. **Veterinary Parasitology 34**: 345 - 352.
28. Petney, T.N., van Ark, H. and Spickett, A. M. 1990. On sampling tick populations: the problem of overdispersion. **Onderstepoort Journal of Veterinary Research 57**: 123 - 127.
29. Adamson, D., Fivaz, B. H. and Petney, T. N. 1991. Acquisition of resistance to the bont tick, *Amblyomma hebraeum* (Acarina: Ixodidae), by goats. **Veterinary Parasitology 38**: 317 - 326.
30. Fivaz, B. H., Nurton, J. P. and Petney, T. N. 1991. Resistance of restrained *Bos taurus* dairy bull calves to the Bont Tick, *Amblyomma hebraeum* (Acarina: Ixodidae). **Veterinary Parasitology 38**: 299 - 315.
31. Fivaz, B. H., Tucker, S. and Petney, T. N. 1991. Cross-resistance between instars of the brown ear tick, *Rhipicephalus appendiculatus* (Acarina: Ixodidae). **Experimental and Applied Acarology 11**: 323 - 326.
32. Petney, T. N. and Huset, H. C. 1992. A species and distribution list of land snails of Jordan. **Israel Journal of Malacology (Argamon) 10**: 1 - 14.
33. Petney, T. N. 1993. A preliminary study of the significance of ticks (Acarina: Ixodidae) and tick-borne diseases in South-east Asia. **Mitteilungen der Österreichischen Gesellschaft für Tropenmedizin und Parasitologie 15**: 33-42.
34. Petney, T. N. and Kok, O. B. 1993. Birds as predators of ticks (Ixodidae) in South Africa. **Experimental and Applied Acarology 17**: 393 - 403.
35. Kok, O. B. and Petney, T. N. 1993. Small and medium sized mammals as predators of ticks in South Africa. **Experimental and Applied Acarology 17**: 733-740.
36. Petney, T. N. and Keirans, J. E. 1994. Ticks of the genus *Ixodes* in South-east Asia. **Tropical Biomedicine 11**: 123-134.

37. Petney, T.N. and Keirans J.E. 1995. Ticks of the genera *Amblyomma* and *Hyalomma* in South-east Asia. **Tropical Biomedicine** 12: 45-56.
38. Maiwald, M., Petney, T.N., Brückner, M., Krämer, K., Röhler, B., Beichel, E. and Hassler, D. 1995. Untersuchungen zur natürlichen Epidemiologie der Lyme-Borreliose anlässlich des gehäufteten Auftretens von Erkrankungen in einem Vorort einer nordbadischen Gemeinde. **Gesundheitswesen** 57: 419-425.
39. Aniwatangkoora, Y., Textor-Schneider, G., Hinz, E. and Petney, T.N. 1996. *Acanthocheilonema vitae*: transplacental transmission of microfilariae from mother to offspring. **Applied Parasitology** 37: 74-76.
40. Petney, T.N., Beichel, E., Maiwald, M., Hassler, D. 1996. *Ixodes ventalloi*: a new tick record for Germany. **Applied Parasitology** 37: 96-98.
41. Beichel, E., Petney, T.N., Hassler, D., Brückner, M., Maiwald, M. 1996. Tick infestation patterns and prevalence of *Borrelia burgdorferi* in ticks collected at a veterinary clinic in Germany. **Veterinary Parasitology** 65: 147-155.
42. Aniwatangkoora, Y., Hinz, E., Petney, T.N. 1996. Mortality of offspring of *Acanthocheilonema vitae* infected *Meriones unguiculatus*. **Applied Parasitology** 37: 125-127.
43. Petney, T.N., Keirans, J.E. 1996. Ticks of the genera *Boophilus*, *Dermacentor*, *Nosomma* and *Rhipicephalus* (Acari: Ixodidae) in South-east Asia. **Tropical Biomedicine** 13: 73-84.
44. Petney, T. N., Hassler, D., Brückner, M. and Maiwald, M. 1996. Comparison of urinary bladder and ear biopsy samples for determining prevalence of *Borrelia burgdorferi* in rodents in Central Europe. **Journal of Clinical Microbiology** 34: 1310-1312.
45. Petney, T.N. and Maiwald, M. 1996. Tick nomenclature. **Lancet** 348: 1251.
46. Petney, T.N. and Keirans, J.E. 1997. Ticks of the genus *Aponomma* in South-east Asia. **Tropical Biomedicine** 13: 167-172.
47. Stein, G., Hinz, E., Textor-Schneider, G. and Petney, T. N. 1997. Quantitative Untersuchungen zur Entwicklung von *Acanthocheilonema vitae* in *Ornithodoros moubata* nach ein- und mehrmaliger Infektion. **Mitteilungen der Österreichischen Gesellschaft für Tropenmedizin und Parasitologie** 19: 75-82.

48. Maiwald, M., Oehme, R., March, O., Petney, T. N., Kimunig, P., Naser, K., Zappe, H. A., Hassler, D. and von Knebel-Doerberitz, M. 1998. Transmission risk of *Borrelia burgdorferi* sensu lato from *Ixodes ricinus* ticks to humans in southwest Germany. **Epidemiology and Infection** **121**: 103-108.
49. Hassler, D., Maiwald, M and Petney, T. N. 1998. Tick removal and Lyme disease. Letter to the Editor: **JAMA** **280**: 1049-1050.
50. Idris, M. A., Petney, T. N. and Ruppel, A. 2000. Antibodies against *Rickettsia* in humans and potential vector ticks from livestock in Dohfur, Sultanate of Oman. **Journal for Scientific Research in Medical and Health Science** **2**: 7-10.
51. Dixon, B., Petney, T. N. and Andrews, R. H. 2000. A simplified method of cleaning ixodid ticks for microscopy. **Journal of Microscopy** **197**: 317-319.
52. McDiarmid L., Petney, T. N., Dixon, B. and Andrews R. H. 2000. Range expansion of the tick *Amblyomma triguttatum triguttatum*, an Australian vector of Q fever. **International Journal for Parasitology** **30**: 791-793
53. Petney, T. N., Andrews R. H., McDiarmid L, and Dixon B. 2004. *Argas persicus* sensu stricto does occur in Australia. **Parasitology Research** **93**: 296-299
54. Petney, T. N., Horak, I. G. Howell, D.J. and Meyer, S. 2004. Striped mice, *Rhabdomys pumilio*, and other murid rodents as hosts for immature ixodid ticks. **Onderstepoort Journal of Veterinary Research** **71**: 313-318
55. Andrews, R. H., Beveridge, I., Bull, C. M., Chilton N. B., Dixon, B., and Petney T. N. 2006. Systematic status of *Aponomma tachyglossi* (Acarina: Ixodidae) from echidnas, *Tachyglossus aculeatus*, from Queensland, Australia. **Systematic Parasitology** **11**: 23–39.
56. Saijuntha, W., Sithithaworn, P., Wongkham, S., Laha, T., Pipitgool, V., Petney, T. N. and Andrews R. H. 2006. Genetic markers for the identification and characterization of the liver fluke, *Opisthorchis viverrini*, a medically important food borne trematode in Southeast Asia. **Acta Tropica** **100**: 246-251
57. Sithithaworn P., Sukavat K., Vannachone B., Sophonphong K., Ben-Embarek P., Petney T. N. and Andrews R. H. (2006) Epidemiology of food-borne trematodes and other parasite infections in a fishing community on the Nam Ngum reservoir, Lao PDR. **Southeast Asian Journal of Tropical Medicine and Public Health**. **37**:1083-1090
58. Saijuntha W., Sithithaworn P., Wongkham S., LahaT., Petney T. N., and Andrew R. H. 2006. Enzyme markers to identify and characterize *Opisthorchis viverrini* in Thailand and Lao PDR. **Southeast Asian Journal of Tropical Medicine and Public Health** **37** [Suppl 3]: 43-47
59. Sithithaworn P., Nuchjungreed C., Srisawangwong T., Ando K., Petney T. N., Chilton N. B., Andrews R. H. 2007. Genetic variation in *Opisthorchis viverrini* (Trematoda:

- Opisthorchiidae) from northeast Thailand and Laos PDR based on random amplified polymorphic DNA analyses. **Parasitology Research 100**: 613-617.
60. Andrews R. H., Petney T. N., Sherman N. A., McDiarmid L. A., and Dixon B. R. 2007. The distribution and dispersion of *Amblyomma triguttatum triguttatum* on Yorke Peninsula, South Australia. **Systematic and Applied Acarology 12**: 3-12.
 61. Saijuntha, W., Sithithaworn, P., Wongkham, S., Laha, T., Pipitgool, V., Petney, T. N., Andrews, R. H. 2007. Evidence of a species complex within the food-borne trematode *Opisthorchis viverrini*, and possible coevolution with their first intermediate hosts. **International Journal for Parasitology 37**: 695-703.
 62. Herter, U., Petney, T. N., Pipitgool, V., Sithithaworn, P., Vivatpatanakul, K., Andrews, R., Hinz, E. 2007. The influence of pregnancy on intestinal parasite infection in Thai women. **Acta Tropica 101**: 200-206.
 63. Petney, T.N., Kolonin, G.V., Robbins, R. 2007. Southeast Asian ticks (Acari: Ixodida): an historical perspective. **Parasitology Research [Suppl. 2] 101**: 201-205.
 64. Skuballa, J., Oehme, R., Hartelt, K., Petney, T.N., Kimmig, P., Taraschewski, H. 2007. European hedgehogs in Germany as hosts for *Borrelia* spp. including *B. spielmanii*. **Emerging Infectious Diseases 13**: 952-953.
 65. Andrews, R. H. and Petney T. N. 2007. Variation in attachment sites of ticks to Australian lizards. **Systematic and Applied Acarology 12**: 91-97.
 66. Estrada-Pena, A., Horak, I. G. and Petney, T. N. 2008. Changes in climate and their suitability for the ticks *Amblyomma hebraeum* and *Amblyomma variegatum* (Ixodidae) in Zimbabwe (1974-1999). **Veterinary Parasitology 151**: 256-267.
 67. Satrawaha, R., Prathepha, P., Andrews, R. H. and Petney, T. N. 2008. Fundamental ecological parameters of the Songkhram River in the Northeast of Thailand: foundation data for the study of an endangered, tropical, wetland system. **Limnology 10**: 7-15.
 68. Andrews, R. H., Sithithaworn, P. and Petney, T. N. 2008. The liver fluke *Opisthorchis viverrini* is a neglected parameter in world health. **Trends in Parasitology 24**: 497-501.
 69. Saijuntha, W., Sithithaworn, P., Wongkham, S., Laha, T., Satrawaha, R., Chilton, N. B., Petney, T. N., Andrews, R. H. 2008. Genetic variation at three enzyme loci within a Thailand population of *Opisthorchis viverrini*. **Parasitology Research 103**: 1283-1287.
 70. Petney, T. N., Dixon, B. R. and Andrews, R.H. 2008. A new host and disquieting distribution record for *Amblyomma triguttatum triguttatum*. **Systematic and Applied Acarology 13**: 183.
 71. Andrews, R. H. and Petney, T. N. 2008. The distribution of reptile ticks in South Australia: more complex than assumed. **Systematic and Applied Acarology 13**: 184-187.

72. Saijuntha, W., Sithithaworn, P., Wongkham, S., Thewarach, L., Chilton, N.B., Petney, T.N., Barton, M., Andrews, R.H. 2008. Mitochondrial DNA sequence variation among geographical isolates of *Opisthorchis viverrini* in Thailand and Lao PDR, and phylogenetic relationships with other trematodes. **Parasitology** **135**: 1479-1486.
73. Sithithaworn P, Andrews RH, Petney TN, Grundy-Warr C 2008. *Opisthorchis viverrini* (liver fluke): a can of worms in the wetlands of the Mekong. **Mekong Progress in Water and Environmental Resilience** **26**: 5-6.
74. Pfäffle, M., Petney, T. N., Elgas, M., Skuballa, J. and Taraschewski H. 2009. Tick-induced blood loss leads to regenerative anemia in the European hedgehog (*Erinaceus europaeus*). **Parasitology** **136**: 443-452.
75. Guglielmone, A. A., Robbins, R. G., Apanaskevich, D. A., Petney, T. N., Estrada-Peña, A. and Horak, I. G. 2009. Comments on controversial tick (Acari: Ixodida) species names and species described or resurrected from 2003 to 2008. **Experimental and Applied Acarology** **48**: 311-327.
76. Saijuntha, W., Sithithaworn, P., Chilton, N. B., Petney, T.N., Klinbunga, S., Satrawaha, R., Webster, P. J. and Andrews, R. H. 2009. Impact of temporal changes and host factors on the genetic structure of a population of *Opisthorchis viverrini* sensu lato in Khon Kaen Province (Thailand). **Parasitology** **136**: 1057-1063.
77. Petney, T. N., Sithithaworn, P., Satrawaha, R., Grundy-Warr, C., Andrews, R. H., Wang, Y.C. and Feng, C. C. 2009. Potential for the re-emergence of malaria in northeast Thailand. **Emerging Infectious Diseases** **15**: 1330-1331.
78. Laoprom, N., Saijuntha, W., Sithithaworn, P., Wongkham, S., Laha, T., Ando, K., Andrews, R. H. and Petney, T. N. 2009 Biological variation within *Opisthorchis viverrini* sensu lato in Thailand and Lao PDR. **Journal of Parasitology** **95**: 1307-1313.
79. Wenz, A., Heymann, E. W., Petney, T. N. and Taraschewski, H. F. 2010. The influence of human settlements on the parasite community in two species of Peruvian tamarin. **Parasitology** **137**: 675-684.
80. Skuballa, J., Taraschewski, H., Petney, T. N., Pfäffle, M., Smales, L. R. 2010. The European hedgehog harbouring *Plagiorhynchus cylindraceus* (Palaeacanthocephala): paratenic host, ecological sink, indicator organism? **Parasitology Research** **106**: 431-437.
81. Skuballa, J., Pfäffle, M., Petney, T. N. and Taraschewski, H. 2010 Molecular detection of *Anaplasma phagocytophilum* in the European hedgehog (*Erinaceus europaeus*) and its ticks. **Vector-Borne and Zoonotic Diseases** **10**: 1055-1057.
82. Guglielmone, A.A., Robbins, R.G., Apanaskevich, D.A., Petney, T.N., Estrada-Pena, A., Horak, I.H., Shao, R., Barker, S.C. 2010. The Argasidae, Ixodidae and Nuttalliellidae (Acari: Ixodida) of the world: a list of valid species names. **Zootaxa** **2528**: 1-28.

83. Petney, T.N., Skuballa, J., Pfäffle, M., Taraschewski, H. 2010. The role of European starlings (*Sturnus vulgaris* L.) in the dissemination of ticks and tick-borne pathogens in Germany. **Systematic and Applied Acarology** **15**: 31-35.
84. Klar, B., Petney, T.N. and Taraschewski, H. 2010. Quantifying differences in parasite numbers between samples of hosts. **Journal of Parasitology** **96**: 856-861.
85. Smales, L.R., Skuballa, J., Pfäffle, M., Petney, T.N. and Taraschewski, H. 2010. An immature polymorphid acanthocephalan from a European hedgehog (Erinaceidae) from New Zealand. **New Zealand Journal of Zoology** **37**: 185-188.
86. Kiatsopit, N., Sithithaworn, P., Boonmars, T., Tesana, S., Chanawong, A., Saijuntha, W., Petney, T. N. and Andrews, R. H. 2010. Genetic relationships within the *Opisthorchis viverrini* species complex with specific analysis of *O. viverrini* from Savannakhet, Lao PDR by multilocus enzyme electrophoresis. **Parasitology Research** **108**: 211-217.
87. Zetlmeisl, C., Hermann, J., Petney, T.N., Glenner, H., and Taraschewski, H. 2010. Parasites in the shore crab *Carcinus maenas* (L.): implications for reproductive potential and invasion success. **Parasitology** **138**: 394-401.
88. Saijuntha, W., Sithithaworn, P., Duengngai, K., Kiatsopit, N., Andrews, R. H. and Petney, T. N. (2010) Genetic variation and relationships of four species of medically important echinostomes (Trematoda: Echinostomatidae) in South-East Asia. **Infection, Genetics and Evolution** **11**: 375-381.
89. Saijuntha, W., Tantrawatpan, C., Sithithaworn, P., Andrews, R. H., Petney, T. N. 2011. Genetic characterization of *Echinostoma revolutum* and *Echinoparyphium recurvatum* (Trematoda: Echinostomatidae) in Thailand and phylogenetic relationships with other isolates inferred by ITS1 sequence. **Parasitology Research** **108**: 229-238.
90. Pfäffle, M., Petney, T.N., Skuballa, J. and Taraschewski, H. 2011. Comparative population dynamics of a generalist (*Ixodes ricinus*) and specialist tick (*I. hexagonus*) species from European hedgehogs. **Experimental and Applied Acarology** **54**: 151-164.
91. Ziegler, A.D., Andrews, R.H., Grundy-Warr, C., Sithithaworn, P. and Petney, T.N. 2011. Fighting liver flukes with food safety education. **Science** **331**: 282-283.
92. Kiatsopit, N., Sithithaworn, P., Boonmars, T., Tesana, S., Chanawong, A., Saijuntha, W., Petney, T. N. and Andrews, R. H. 2011. Genetic markers for studies on the systematics and population genetics of snails, *Bithynia* spp., the first intermediate hosts of *Opisthorchis viverrini* in Thailand. **Acta Tropica** **118**: 136-141.
93. Saijuntha, W., Tantrawatpan, C., Sithithaworn, P., Andrews, R.H. and Petney T.N. 2011. Spatial and temporal genetic variation of *Echinostoma revolutum* (Trematoda: Echinostomatidae) from Thailand and the Lao PDR. **Acta Tropica** **118**: 105-109.
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- Lao PDR: The Mekong River as a biogeographic barrier. **Bulletin of Entomological Research** **101**: 687-696.
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 96. Grundy-Warr, C., Andrews, R.H., Sithithaworn, P., Petney, T.N., Sripa, B., Lathavewat, L., Ziegler, A.D. 2011. Raw attitudes, wetland cultures, life-cycles: socio-cultural dynamics relating to *Opisthorchis viverrini* in the Mekong Basin. **Parasitology International** **61**: 65-70
 97. Sithithaworn, P., Andrews, R.H., Petney, T.N., Saijuntha, W., Laoprom, N. 2011. The systematics and population genetics of *Opisthorchis viverrini* sensu lato: implications in parasite epidemiology and bile duct cancer. **Parasitology International** **61**: 32-37.
 98. Wang, Y.C., Feng, C.C., Sithithaworn, P., Feng, Y., Petney, T.N. 2011. How do snails meet fish? Landscape perspective needed to study parasite prevalence. **EcoHealth** **8**: 258-260.
 99. Petney, T.N., Robbins, R.G., Guglielmone, A.A., Apanaskevich, D.A., Estrada-Peña, A., Horak, I.G., Shao, R. 2011. A look at the world of ticks. **Parasitology Research Monographs** **2**: 283-296.
 100. Skuballa, J., Petney, T.N., Pfäffle, M., Oehme, R., Hartelt, K., Fingerle, V., Kimmig, P., Taraschewski, H. 2011. Occurrence of different *Borrelia burgdorferi* sensu lato species including *B. afzelii*, *B. bavariensis* and *B. spielmanii* in hedgehogs (*Erinaceus* spp.) in Europe. **Ticks and Tick-Borne Diseases** **3**: 8-13.
 101. Petney, T.N., Pfäffle, M., Skuballa, J. 2012. An annotated checklist of the ticks of Germany. **Systematic and Applied Acarology** **17**: 115-170.
 102. Kiatsopit, N., Sithithaworn, P., Saijuntha, W., Boonmars, T., Tesana, S., Sithithaworn, J., Petney, T.N., Andrews, R.H. 2012. Exceptionally high prevalence of infection of *Bithynia siamensis goniomphalos* with *Opisthorchis viverrini* cercariae in different wetlands in Thailand and Lao PDR. **American Journal of Tropical Medicine and Hygiene** **86**: 464-469.
 103. Silaghi, C., Skuballa, J., Thiel, C., Pfäffle, M., Petney, T.N., Taraschewski, H., Friche Passos, L.M., Pfister, K. 2012. The European hedgehog (*Erinaceus europaeus*) – a suitable reservoir for variants of *Anaplasma phagocytophilum*? . **Ticks and Tick-Borne Diseases** **3**: 49-54.
 104. Wells, K., Beaucournu, J.-C., Durden, L.A., Petney, T. N., Lakim, M.B., O'Hara, R.B. 2012. Ectoparasite infestation patterns of domestic dogs in suburban and rural areas in Borneo. **Parasitology Research** **111**: 909–919.

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106. Wells, K., O'Hara, R.B., Pfeiffer, M., Lakim, M.B., Petney, T.N., Durden, L.A. 2012. Inferring host specificity and network formation through agent-based models: tick – mammal interactions in Borneo. **Oecologia 172**: 307-315
107. .Sithithaworn, P., Ziegler, A.D., Grundy-Warr, C., Andrews, R.H. and Petney, T.N. 2012. Human alterations to epidemiological life-cycle of liver flukes: the role of dams, roads, and ponds. **The Lancet Infectious Diseases 12**: 588.
108. Laoprom, N., Sithithaworn, P., Andrews, R.H., Ando, K., Wongkham, S., Laha, T., Klinbunga, S., Webster, J.P., Petney, T.N. 2012. Population genetic structuring in *Opisthorchis viverrini* over various spatial scales in Thailand and Lao PDR. **PLoS Neglected Tropical Diseases 6** (11): e1906.
109. Pitaksakulrata, O., Sithithaworn, P., Laoprom, N., Laha, T., Petney, T.N., Andrews, R.H. 2013. A cross-sectional study on the potential transmission of the carcinogenic liver fluke *Opisthorchis viverrini* and other fish-borne zoonotic trematodes by aquaculture fish. **Food-borne Pathogens and Disease 10**: 35-41.
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118. Saijuntha, W., Petney, T., Kongbuntad, W. 2013. Genetic characterization of banteng (*Bos javanicus*) in Lam Pao Wildlife Conservation Development and Promotion Station, Kalasin Province. **Thai Journal of Genetics** 6: 72-76.
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123. Kiatsopit, N., Sithithaworn, P., Saijuntha, W, Pitaksakulrat, O., Petney, T.N., Webster, J.P., Andrews, R.H. 2014. Analysis of the population genetics of *Opisthorchis viverrini* sensu lato in the Nam Ngum River wetland, Lao PDR, by multilocus enzyme electrophoresis. **Parasitology Research** 113: 2973-2981
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128. Kopolrat, K., Sithithaworn, P., Tesana, S., Andrews, R.H., Petney, T.N. (2015) Susceptibility, metacercarial burden and mortality of juvenile silver barb, common carp, mrigal and tilapia following exposure to *Haplorchis taichui*. **Parasitology Research** (in press).
129. Petney, T.N., Moser, E., Littwin, N., Pfäffle, M., Muders, S.V., Taraschewski H. (2015) Additions to the “Annotated Checklist of the Ticks of Germany”: *Ixodes acuminatus* and *Ixodes inopinatus*. **Systematic and Applied Acarology** (in press).
130. Kiatsopit, N., Sithithaworn, P., Kopolrat, K., Namsanor, J., Andrews, R.H., Petney, T.N. (2015) Trematode diversity in *Bithynia siamensis goniomphalos* sensu lato from Thailand and Lao PDR. **Journal of Helminthology** (in press).
131. Sithithaworn, P., Petney, T.N., Andrews, R.H. (2015) What significance do helminths species-complexes have for the prevention, diagnosis and treatment of human infections? **Transactions of the Royal Society for Tropical Medicine and Hygiene** (editorial) (in press)
133. Pfäffle, M., Littwin, N., Petney, T.N. (2015) Host preferences of immature *Dermacentor reticulatus* (Acari: Ixodidae) in a forest habitat in Germany. **Ticks and Tick-Borne Diseases** (in press).
133. Pfäffle, M., Littwin, N., Petney, T. (2015) The relationship between biodiversity and disease transmission risk. **Research and Reports in Biodiversity Studies** (in press).
134. Namsanor, J., Sithithaworn, P., Kopolrat, K., Kiatsopit, N., Pitaksakulrat, O., Tesana, S., Andrews, R.H., Petney, T.N. 2015. Seasonal transmission of *Opisthorchis viverrini* sensu lato and a lecithodendriid trematode species in *Bithynia siamensis goniomphalos* snails in northeast Thailand. **American Journal of Tropical Medicine and Hygiene** (in press).
135. Khuntikeo, N., Chamadol, N., Yongvanit, P., Loilome, W., Namwat, N., Sithithaworn, P., Andrews, R.H., Petney, T.N., Promthet, S., Thinkhamrop, K., Tawarungruang, C., Thinkhamrop B. on behalf of the CASCAP investigators. Cohort Profile: Cholangiocarcinoma Screening and Care Program (CASCAP). **BMC Cancer** (in press).

2.2. Books

135. Fivaz, B. H., Petney, T. N. and Horak, I. G. 1992. **Tick vector biology: medical and veterinary aspects**. Springer Verlag, Heidelberg. 193 pp.
136. Guglielmone, A.A., Robbins, R.G., Apanaskevich, D.A., Petney, T.N., Estrada-Pena, A., Horak, I.H. (2013) **The hard ticks of the world (Acari: Ixodida: Ixodidae)**. Springer, Heidelberg, pp viii + 738.

2.3. Book chapters

137. Petney, T. N. and Horak, I. G. 1997. The community structure of ticks on kudu (*Tragelaphus strepsiceros*) in the Eastern Cape Province of South Africa. In: Dettner, K., Bauer, G. and Völkl, W. (eds.) **Vertical food web interactions: evolutionary patterns and driving forces**. Springer Verlag, Heidelberg. pp. 81-89.
138. Petney, T.N. and Taraschewski, H. 2011. Water-borne parasitic diseases: hydrology, regional development and control. In: Frimmel, F.H. (ed.) **Water Chemistry and Microbiology**, vol. 3 of **A Treatise on Water Science**. Elsevier. Pp. 303-366.
139. Sithithaworn, P., Andrews, R.H., Petney, T.N. (2014) *Clonorchis*, *Opisthorchis*, and *Metorchis* (Opisthorchiidae). **CRC Food Microbiology Series, Biology of Food-borne Parasites**, Editors Xiao, L., Ryan, U. and Feng, Y., Section III Important food-borne helminths, Chapter 21.
140. Saijuntha, W. Sithithaworn, P., Kiatsopit, N., Andrews, R. H., Petney, T. N. (2014) Liver flukes: *Clonorchis* and *Opisthorchis*. In: Toledo, R., Fried, B. **Digenetic Trematodes**. Chapter 6. Springer Verlag, pp. 153-199.

2.4. Invited Reviews

141. Petney, T.N. 1997. Ecological implications of control strategies: arthropods of domestic and production animals. **International Journal for Parasitology** **27**: 155-165.
142. Petney, T.N. and Andrews, R.H. 1998. Multiparasite communities in animals and humans: frequency, structure and pathogenic significance. **International Journal for Parasitology** **28**: 377-393
143. Petney, T.N. 2001. Environmental and social change in the tropics and its influence on parasite infection. **International Journal for Parasitology** **31**: 919-932.
144. Pfäffle, M., Littwin, N., Muders, S.V., Petney, T.N. (2013) The ecology of tick-borne diseases. **International Journal for Parasitology** **43**: 1059-1077.
145. Petney, T.N., Andrews, R.H., Saijuntha, W., Wenz-Mücke, A., Sithithaworn, P. 2013. The zoonotic, fish-borne liver flukes *Clonorchis sinensis*, *Opisthorchis felineus* and *O. viverrini*. **International Journal for Parasitology** **43**: 1031-1046.
146. Sebastian, P., Mackenstedt, U., Wassermann, M., Wurst, E., Hartelt, K., Petney, T.N., Pfäffle, M., Littwin, N. Steidle, J.L. Selzer, P., Norra, S., Böhnke, D., Gebhardt, R., Kahl, O., Dautel, H., Oehme, R. 2014. Ökologie von Zecken als Überträger von Krankheitserregern in Baden-Württemberg und biologische Zeckenbekämpfung. **Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz** **57**: 549-56.

2.5. Book reviews

147. Petney, T.N. (2013) *Parasites in Ecological Communities: from Interactions to Ecosystems*, by Hatcher, M.J., Dunn, A.M. Cambridge, Cambridge University Press 2011.

xv + 445 pages (ISBN 978-0-521-71822-6). *Singapore Journal of Tropical Geography* 34: 137-138.

148. Petney, T.N. (2015) King, B., Crews, K. A. (eds) *Ecologies and Politics of Health. Routledge Studies in Human Geography.*, Routledge, Oxon, 2013, pp. xxi + 296 (ISBN 978-0-415-59066-2). *Singapore Journal of Tropical Geography* (in press).

2.6 Popular, non-peer reviewed or non-biological publications

1. Adams, I., Petney, T. N. 2005. Germany 3-Scotland 2, no man's land, 25th December, 1914: fact or fiction? In: Magee, J., Bairner, A., Thompson, A. (eds.) *The bountiful game? - Football identities and finances.* Chelsea School Research Centre Editions 8: 21-41.
2. Petney, T.N., Pfäffle, M.P., Skuballa J, Taraschewski, H. (2011) Literaturrecherche zum Thema Zecken und zeckenübertragene Krankheiten in Baden-Württemberg—Stand des Wissens. <http://www.fachdokumente.lubw.baden-wuerttemberg.de/servlet/is/101587/?COMMAND=DisplayBericht&FIS=203&OBJECT=101587&MODE=METADATA>
3. Petney T., Pfäffle M., Norra S., Oehme R., Steidle J., Littwin N., Böhnke D., Hogewind F., Sebastian P., Kahl O., Gebhard R., Dautel H. (2014), Untersuchung der Ökologie von Zecken als Überträger von Krankheitserregern in Baden-Württemberg in Bezug auf Habitat, Landnutzung, Wirtstiere und Klima. Zwischenbericht zum Statuskolloquium Umweltforschung Baden-Württemberg 2014, <http://www.fachdokumente.lubw.baden-wuerttemberg.de/servlet/is/111739/?COMMAND=DisplayBericht&FIS=203&OBJECT=111739&MODE=METADATA> ☐
4. Petney T., Pfäffle M., Norra S., Oehme R., Steidle J., Littwin N., Böhnke D., Hogewind F., Sebastian P., Kahl O., Gebhard R., Dautel H. (2013). Untersuchung der Ökologie von Zecken als Überträger von Krankheitserregern in Baden-Württemberg in Bezug auf Habitat, Landnutzung, Wirtstiere und Klima. Zwischenbericht zum Statuskolloquium Umweltforschung Baden-Württemberg 2013, <http://www.fachdokumente.lubw.baden-wuerttemberg.de/servlet/is/108062/?COMMAND=DisplayBericht&FIS=203&OBJECT=108062&MODE=METADATA>

2.7. Manuscripts in Preparation

1. Paiboon Sithithaworn, Montriya Awiruttapanich, Thewarach Laha, Nisana Tepsiri, Surasak Wongratanacheewin, Katsuhiko Ando, R.H. Andrews, T.N. Petney. The seasonal and geographical variability of *Opisthorchis viverrini* metacercariae from fish in north-eastern Thailand.
2. Trevor Petney, Carl Grundy-Warr, Paiboon Sithithaworn, Ross Andrews, Alan Ziegler. Changing patterns of land use in the northeast of Thailand in relation to disease epidemiology.
3. Kulhida Kopolrat, Paiboon Sithithaworn, Trevor N. Petney, Ross H. Andrews. Susceptibility of five common aquaculture fish species to infection by the fish-borne zoonotic trematode *Haplorchis taichui*.

4. Sithithaworn P, Puangrat Y, Laithavewat L, Andrews RH and Petney TN. 2013. Liver fluke and cholangiocarcinoma in Southeast Asia: current status and prospects for long-term prevention and control. *Global Environmental Studies*, Springer, Heidelberg.
5. Watee Kongbuntad¹, Weerachai Saijuntha^{2,6}, Chairat Tantrawatpan³, Wangworn Sankamethawee⁴, Kamonwan Jongsomchai⁵, Tawin Chanaboon^{2,6}, Panida Laotongsan^{2,6}, Warayutt Pilap^{2,6}, Trevor N. Petney. Genetic structure of the red-spotted tokay gecko (*Gekko gecko* [Linnaeus, 1758]) in Southeast Asia determined by multilocus enzyme electrophoresis.
6. Denise Boehnke, Stefan Norra, Reiner Gebhardt, Trevor Petney, Miriam Pfäffle, Nina Littwin, Patrick Sebastian, Rainer Oehme, Katharina Brugger, Karin Lebl, Johannes Raith, Melanie Walter, and Franz Rubel. Estimating the spatial distribution of *Ixodes ricinus* densities.
7. Agustin Estrada-Pena, Andrei Mihalca, Trevor Petney (eds). Book: Ticks of the Western Palearctic. Funded by COST: European Cooperation in Science and Technology. Due 2016.
8. AD Ziegler, YT Lee, P Echaubard, CJ Chuah, C Grundy-Warr, BA Wilcox, L Laithavewat, P Sithithaworn, B Sripa, T Petney, XY Ong, R Andrews, P Tungtang. A Transdisciplinary learning approach to understanding the dimensions of liver fluke infection in NE Thailand
9. Patrick S. Sebastian, Alexander Lindau, Gerhard Dobler, Nina Littwin, Miriam Pfäffle, Trevor Petney, Denise Böhnke, Stefan Norra, Ute Mackenstedt, Rainer Oehme. Stuttgart Botnang, South West Germany: a stable tick-borne encephalitis virus (TBEV) focus for more than 25 years.

2.8. Contributions to Congresses and Abstracts

I have presented over 70 contributions at national and international conferences.

3. Teaching Experience

3.1. Undergraduate Courses given at the University

My university teaching experience covers animal ecology, limnology, animal behaviour, biostatistics and parasitology which interface with these topics as well as introductory biology. In addition I have given advanced courses in parasite ecology, vector biology and the ecology of ticks.

3.2. Supervision of Theses

I have acted as supervisor, co-supervisor and assessor for numerous Honours, Diploma, MSc and PhD degrees.

4. Other Professional Qualifications and Experience

4.1. Scientific Grants and Awards

- 1984: Travel and living allowance for 2 months study leave from the Deutsche Forschungsgemeinschaft (DFG SFB 137) through Prof. Dr. H. Zwölfer, University of Bayreuth to work on the community ecology of insects infesting thistle heads in Jordan.
- 1985-87: Research Fellowship from the Veterinary Research Institute, Onderstepoort, South Africa to work on the ecology and epidemiology of Heartwater and Karoo Paralysis, tick-borne diseases of domestic stock in Africa.
- 1988: Renewal of the above Research Fellowship.
- 1995: New Zealand Meat Industry Research Trust grant to visit Australia and New Zealand as a keynote speaker on the ecology of ectoparasite control; Adelaide 27th - 30th September.
- 1998: Consultancy through Dr. Ross Andrews for travel to and to work at the Department of Microbiology and Immunology, University of Adelaide, Australia (May to August).
- 1999: Consultancy through Dr. Ross Andrews for travel to and to work at the Department of Microbiology and Immunology, University of Adelaide, Australia (March to June).
- 2000: Australian Parasitological Society Visiting Lectureship and invitation as a keynote speaker at the 2000 ASP/NZSP symposium: "Around the corner; environmental change, societal and cultural change - the implications for parasites and diseases."
- 2002: Wellcome Trust Collaborative Research Initiative Grant. 2003-2005
"The role of genetic variation within *Opisthorchis viverrini* as a cause of the major variation in prevalence, incidence and severity of bile duct cancer in the Mekong Region." 2,270,000 Bht [= \$AUS100,000]. With Dr. Paiboon Sithewathorn (Khon Kaen University, Thailand) and Prof. Ross Andrews (University of South Australia)
- 2007: Deutsche Forschungsgemeinschaft travel grant for the organization of cooperative research on *Opisthorchis viverrini* and tropical freshwater ecosystems in Thailand. Third prize, with H. Taraschewski and E. Weisemburger: *Hauptsache Biologie: Science meets Journalism*.
- 2009: Ministry of the Environment, Baden-Wuerttemberg, €9,200 for literature research on tick ecology, September-December 2009 and organization of a Workshop on Tick Ecology, 22 March, 2010.

- Deutsche Forschungsgemeinschaft travel grant for the organization of cooperative research in South Africa €1200
- Associate partner: Novel Technologies for Surveillance of Emerging and Re-emerging Infections of Wildlife EU FP7-KBBE-2007-2A to Profs. D. Hannant and R. Lea, University of Nottingham, €6,000,000
- 2010 Deutsche Forschungsgemeinschaft grant for 12,000€ for the organization conferences in Thailand and Germany to discuss cooperative research on *Opisthorchis viverrini* and other human pathogenic trematodes
- 2011 57,000€ from the Forschungsanstalt für Waldökologie und Forstwirtschaft for the project “The distribution and abundance of ticks in the Bienwald and their vector capacity for human pathogens in relation to climate change.”
4,961€ Bench fees, Nadda Kiatsopit PhD student from Thailand
- 2012 Coordinator: BW+ grant to work on: “The ecology of ticks as vectors of diseases in Baden-Württemberg” Total grant 663,000€. Department of Ecology and Parasitology 255,300€
Co-organizer: International workshop on the biology and distribution of ticks and tick-borne diseases in times of climate change. 22 and 23 Feb. 2012. Sponsored by the German Ministry for the Environment, Nature Conservation and Nuclear Safety and the Federal Environment Agency.
Funding for an Opisthorchiasis workshop in Karlsruhe September 9th to 14th 2012: EU Asian Science-Technology and Innovation 2012 3,086€ and from the International Excellence Fund (KIT) 7,654€
- 2014 Coordinator: BW+ grant to work on: “The ecology of ticks as vectors of diseases in Baden-Württemberg” Funding of an additional €90,000
- 2014 Funding from the German Federal Ministry for Education and Research: 17,876€
“Liver fluke infection in Southeast Asia: genetic variability, causes and consequences.

4.2. Reviews for Journals

Acta Tropica

African Zoology

American Midland Naturalist

Annals of the Association of American Geographers

Bulletin of the Florida Museum

Comparative Immunology Microbiology and Infectious Diseases

Contributions to Entomology/Beiträge zur Entomologie

Ecology Letters

Emerging Infectious Diseases

Experimental Parasitology
International Journal for Parasitology
Journal of Helminthology
Journal of Parasitology
Journal of the South African Veterinary Association
Naturwissenschaften
Neotropical Entomology
Parasitology
Onderstepoort Journal of Veterinary Research
South African Journal of Zoology
Systematic and Applied Acarology
Ticks and Tick-Borne Diseases
Travel Medicine and Infectious Disease
Veterinary Parasitology
Zookeys
Zootaxa

4.3. Membership in Professional Societies

Deutsche Gesellschaft für Parasitologie

4.4. Service on Professional Committees

Specialist editor for the *International Journal for Parasitology* (1997 to 2000 and 2013-present)

Section Editor for Systematic and Applied Acarology (from 2015).

Assessment of applications for federal research grants for the *Foundation of Research and Development* (South Africa) and the *Australian Research Council* (ARC).

5. Referees

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