

Curriculum vitae



1. Personal details and current position

Name: **Hemphill, Andrew Edward**
Date of birth: 9. November, 1961
Marital status: Divorced, one daughter (Tuvana, born 17. 6. 1997)
Citizenships: Switzerland
Private address: Laubeggstrasse 35, CH-3006 Bern
Current work address: Institute of Parasitology, Faculties of Veterinary Medicine and
Medicine, University of Berne, Länggass-Strasse 122, 3012 Berne
Email: andrew.hemphill@vetsuisse.unibe.ch
Current position: Associated Professor, research group leader

2. Education

1983-1987: Studies of Microbiology at the University of Berne, Switzerland
1987-1991: Masters thesis (1987-88), PhD thesis (1989-91) at the Institute of General
Microbiology, University of Berne (Prof. Thomas Seebeck).
1991-1992: Post-doc, Institute of General Microbiology, University of Berne

3. Professional and academic experience

1993-1994: Postdoctoral fellow, Biology Department, University College London
1992-1994: Visiting research fellow, Department of Medical Parasitology, London
School of Hygiene and Tropical Medicine
1994-1999: Assistent (1994-99) and Oberassistent (1999-2001), Institute of Parasitology
IPB), University of Berne,
2001-2008: Dozent I IPB(2001); Titular-Professor (2002); Associate Professor, 2008

2008-date: Foundation Research 3R: Member of the panel of experts
2001-2009: Editorial board: *International Journal of Parasitology* (Elsevier)
2008-2010: Editorial board *Parasitology* (Cambridge University Press)
2011: Patent application "Allergens from insects". Ref P408, submitted to the
European Patent Office. Patent number: EP11184737.2 – 2401
2018-date: Swissmedic Veterinary Medicine Expert Committee (VMEC): permanent
member of the panel of experts

Peer-reviewer of papers submitted to the following journals: *Parasitology*, *J. Parasitol.*,
Parasitol Res., *Vet. Record.*, *Vet Research.*, *J Vet Med.*, *Exp. Parasitol.* *Parasite Immunol.*, *Infect
Immun.*, *Life Sciences*, *Int J Parasitol.*, *Int J Parasitol-DDR.*, *Micron*, *Antimicrob Ag Chemother.*,
Int J Antimicrob. Agents., *J Antimicrob. Chemother.*, *Trends Parasitology.*, *Mol Biochem
Parasitol.*, *Acta Tropica*, *Drugs.*, *Ex. Op Pharmacol.*, *Nature Comunciations.*, *Plos NTD*, *PlosOne*

Guest editor of special issues:

Exp. Parasitol. 2008: "Experimental aspects of echinococcosis"
Parasitology 2010: "Experimental laboratory models for cestodes and trematodes"
Int. J Parasitol. 2013: "Apicomplexan parasites in farm animals"

Parasitology 2014: "Apicowplexa 2013, Kusadasi, Turkey"
Int J Parasitol. 2017: "Apicowplexa 2017: fourth International Meeting on apicomplexan parasites in farm animals"

Peer-reviewing of research grants submitted to the following funding bodies:

Welcome Trust (GB), United States Department of Agriculture (USDA), US-Israel Binational Agricultural Research and Development Fund (BARD), Deutsche Forschungsgemeinschaft (DFG), National Health and Medical Research Council, Australia (NHMRC), Swiss National Science Foundation

Reviewer of PhD theses:

University of Technology Sydney, Australia; Swiss Tropical Institute, Basel, Switzerland; Department of Preclinical Veterinary Sciences, University of Liverpool, UK; Universidad Complutense, Madrid, Spain; Faculty of Veterinary Sciences, Lisbon, Portugal; University of Evora, Portugal; Infection Biology, University of Glasgow, UK, Université Tours

Member of evaluation panel:

INRA Centre Val de Loire, Tours, Pôle Santé Animale, Jan. 2017.
Novo Nordisk Foundation Challenge Programme on "Emerging Infectious Diseases", 2019

Teaching:

- Courses (lecture and microscopy) in Veterinary Parasitology, 1994-2000 (2 h/week).
- Courses (lecture and microscopy) on Tropical Parasitoses, 1997-date (3 h/week).
- Laboratory practicals (2-6 weeks) for biology students 1997-date (Bachelor degree).
- PhD course (2 weeks) on Applied Molecular Biology, for PhD students of the Faculties of Veterinary Medicine, Medicine and Natural Sciences. 1997-2007, every 2nd year.

4. Research project funding

- 1988: **EMBO Short Term Fellowship** for acquiring specialized electron microscopy techniques. University College, London.
- 1989: **EMBO Student Fellowship** "Immunocytochemical and other Low Temperature Methods in Biological Electron Microscopy". University of Oslo.
EMBO Student Fellowship "Methods in Cell Biology". European Molecular Biology Laboratory (EMBL). Heidelberg.
- 1992: **Swiss National Science Foundation** (1 yr). "Identification and characterization of actin in *Trypanosoma brucei*" (CHF 38'000)
- 1993: **Bernese Cancer League** (1 yr) "Cytoskeletal alterations in neoplastic transformed cells". (CHF 102'000)
- 1994: **Swiss National Science Foundation** (extension 3 months) "Studies on adhesion of *Trypanosoma congolense* to endothelial cells". (CHF 9'000).
- 1995: **Sandoz Research Foundation** (1 yr). Bruno Gottstein, Andrew Hemphill: "Molecular biology and immunology of infection with *E. multilocularis* (CHF 34'172)
Foundation for promotion of Science at the University of Berne. Bruno Gottstein, Andrew Hemphill: "TEM of *E. multilocularis*. (CHF 6'536)
- 1996: **Swiss National Science Foundation** (3 yrs. Bruno Gottstein (principal investigator), Andrew Hemphill, Richard Felleisen: "The host-parasite interplay in alveolar echinococcosis (larval infection with *Echinococcus multilocularis*)". (CHF 500'000)
Swiss National Science Foundation (3 yrs) Andrew Hemphill (principal investigator), Brigitte Hentrich: "Molecular and cellular studies on host-parasite interactions in neosporosis". (CHF 270'000)

- 1999: **Swiss National Science Foundation** (2 yrs). Bruno Gottstein (principal investigator), Andrew Hemphill, Richard Felleisen: "The host-parasite interplay in alveolar echinococcosis" (CHF 333'000)
- 2000: **Swiss National Science Foundation** (3 yrs). Andrew Hemphill (principal investigator), Norbert Mueller: "The host-parasite relationship during infection with *Neospora caninum*" (CHF 260'000)
Foundation Research 3R (3 yrs). Andrew Hemphill: "Development of an in vitro cultivation model for *Neospora caninum* tissue cyst formation and its applications". (CHF 140'000)
Stanley Thomas Johnson Foundation (2 yrs). Andrew Hemphill (principal investigator), Bruno Gottstein. "Human alveolar echinococcosis (AE): development of new means of treatment and assessment of disease". (CHF 90'000)
- 2001: **Swiss National Science Foundation** (3 yrs). Bruno Gottstein (principal investigator), Andrew Hemphill. "Parasite-host interplay in alveolar hydatid disease (infection with *Echinococcus multilocularis*)". (CHF 539'000)
Novartis Foundation (1 yr). Andrew Hemphill (principal investigator), Bruno Gottstein. "Treatment and assessment of disease in human alveolar echinococcosis" (CHF 50'000)
European Union 5th Framework Programme (3 yrs). Diagnosis, epidemiology and prevention of *Neospora caninum* induced bovine abortions. Collaborative effort with 6 European partners (coordinator Prof. F. J. Conraths) (CHF 332'000)
Roche Research Foundation (2 yrs). Andrew Hemphill (principal investigator), A. Naguleswaran. "Identification and characterisation of host cell surface molecules relevant for *N. caninum* adhesion and invasion". (CHF 20'000)
- 2002: **Romark Research Laboratories**. Andrew Hemphill. "In vitro and in vivo chemotherapy of murine alveolar echinococcosis (CHF 21'000)
Swiss National Science Foundation (3 yrs). Norbert Müller (principal investigator), Andrew Hemphill. "Qualitative and quantitative assessment of *vsp* gene expression associated with antigenic variation of *Giardia lamblia* within an experimental murine host. (CHF 157'582)
Swiss National Science Foundation (3 yrs). Andrew Hemphill (principal investigator), Norbert Müller. "Cellular and immunological assessment of the host-parasite relationship during infection with the apicomplexan parasite *Neospora caninum*". (CHF 227'000)
- 2003: **Foundation Research 3R** (2 yrs). Andrew Hemphill. "Development of an *in vitro* culture model to generate *Neospora caninum* and *Toxoplasma gondii* oocysts and sporozoites" (CHF 185'000)
Romark Research Laboratories (3 yrs). Andrew Hemphill. "Prevention and treatment of apicomplexan parasitic diseases in vitro and in the murine model by nitazoxanide and related compounds". (CHF 165'600).
- 2004: **COST 857 - Bundesamt für Bildung und Wissenschaft (BBW)** (3 yrs). Andrew Hemphill, Adrian Hehl. "Development of novel means of prevention and monitoring of disease in toxoplasmosis and neosporosis". (CHF 304'000).
Romark Research Laboratories (1 yr). Andrew Hemphill. "In vitro and in vivo efficacy of nitazoxanide against *Echinococcus granulosus* protozoa and metacestodes" (CHF 131'250).
Romark Research Laboratories (2 yrs). Andrew Hemphill, Joachim Mueller. "Identification and characterization of nitazoxanide-binding proteins". (CHF 240'000)
Romark Research laboratories (2 yrs). Andrew Hemphill. "Screening for anti-parasitic compounds employing in vitro tissue culture models". (CHF 120'000)
- 2006: **Swiss National Science Foundation** (3 yrs). Andrew Hemphill. *Neospora caninum*: development of novel means of prevention utilizing antigens involved in host-parasite interaction. (CHF 260'000)

- Swiss National Science Foundation** (3 yrs). Bruno Gottstein (principal investigator), Andrew Hemphill: *Echinococcus multilocularis* and alveolar echinococcosis: the molecular struggle. (CHF 540'000).
- Stanley Thomas Johnson Foundation** (2 yrs). Andrew Hemphill, Thomas Brunner. Thiazolides in cancer and alveolar echinococcosis (CHF 100'000).
- Novartis Research Foundation** (6 months). Andrew Hemphill, Joachim Mueller. *Echinococcus* and echinococcosis: development of novel tools for the treatment of disease. (CHF 45'000)
- 2007: **Novartis Animal Health** (3 years). Andrew Hemphill. Establishment of intestinal epithelial cell culture of feline and canine origin as in vitro models to study drug efficacy and drug targets in the gastrointestinal tract. (CHF 357'630)
- Jubiläumstiftung der Schweizerischen Mobiliar Genossenschaft, Bern.** Andrew Hemphill: Development of novel treatment options for human alveolar echinococcosis (AE), caused by the fox tapeworm *Echinococcus multilocularis*. (CHF 26'000)
- Hochschulstiftung der Burgergemeinde Bern.** Andrew Hemphill: Electron microscopy in Parasitology. (CHF 8698)
- 2008: **Swiss Life Foundation** (1 yr). Andrew Hemphill. Novel treatments for alveolar echinococcosis. (CHF 26'000)
- 2010: **Swiss National Science Foundation** (3 yrs). Andrew Hemphill. Vaccines against neosporosis, studies in the mouse model (CHF 415'000)
- Swiss Life Foundation** (1 yr). Andrew Hemphill. Novel treatments for echinococcosis (CHF 24'000)
- Intervet International** (3 yrs). Andrew Hemphill. Vaccines against neosporosis (CHF 200'000)
- 2011: **Fondation Sana** (1 yr). Andrew hemphill. Identifizierung und Charakterisierung von neuen Wirkstoffen zur Bekämpfung der alveolären Echinococcose (CHF 14'000).
- Bangerter-Rhyner Foundation** (3 yrs). Andrew Hemphill. Alveolar Echinococcosis: development of novel treatment for an old disease. (CHF 150'000)
- 2012: **Novartis Research Foundation** (1 yr). Andrew Hemphill. The endophilin-like protein EmP29 in *Echinococcus multilocularis* metacestodes. (CHF 56'400)
- 2013: **Swiss National Science Foundation** (3 yrs). Andrew Hemphill. Of mice and sheep: prevention and treatment of *Neospora caninum* infections. (CHF 493'930)
- 2014: **United States Department of Agriculture (USDA) / National Institute of Health (NIH).** (4 yrs; Andrew Hemphill subcontractor, Swiss principal investigator). Dual use therapeutics for cryptosporidiosis, toxoplasmosis and neosporosis (CHF 87'000 + 29'000).
- 2014: **Elanco Animal Health, Basel** (3 yrs). Britta Stadelmann, Andrew Hemphill. Development of novel drug screening methods (CHF 140'300)
- 2015: **Fondation Sana** (1 yr). Andrew Hemphill. "Anti-Malaria Wirkstoffe zur chemotherapeutischen Behandlung der alveolären. Echinokokkose" (CHF 30'000).
- COST CM1307; Swiss State Secretariat for Education, Science and Innovation (SBFI).** (2 yrs). Andrew Hemphill, Britta Stadelmann. Anti-malarials for the treatment of Echinococcosis (CHF 180'000)
- 2016: **Swiss National Science Foundatiojn** (3 yrs). Andrew Hemphill. The crosstalk between chemotherapy and immunity in murine and ovine neosporosis. (CHF 678'000)
- Elanco Animal Health, Basel** (3 yrs). "Research Collaboration and laboratory Services" (CHF 421'200).
- University of Bern, UniBE-ID grant** (1 yr). Julien Furrer, Andrew Hemphill. "Dinuclear arene ruthenium (II) complexes for the treatment of parasitic diseases " (CHF 121'500)
- 2017: **Swiss National Science Foundation, Sinergia CRSII5_173718** (4 yrs). Julien Furrer, Gilles Gasser, Andrew hemphill. "Ruthenium complexes for the treatment of protozoan diseases of medical and veterinary importance". (CHF 1'547'903).

2018: **Novartis Research Foundation (1 yr)**. Andrew Hemphill. Toxoplasmosis: more dangerous than expected? Studies on drug susceptibility of novel parasite isolates (CHF 60'000)

5. Supervised PhD theses, contributions to the career of scientists

Sabrina Sonda, Nicole Fuchs, 1999: Identification and molecular characterization of cell surface receptors for host cell invasion by the apicomplexan parasite *Neospora caninum*

Katrin Ingold, 2000: Host parasite relationship in alveolar echinococcosis

Angela Cannas, 2002: The cell biology of *Neospora caninum*: from genes to vaccines

Marianne Stettler, 2003: A view to a kill: novel treatment strategies for alveolar echinococcosis

Nadine Keller, 2003: *Neospora caninum*, micronemes and host cells: how to get in

Arunasalan Naguleswaran, 2003: *Neospora caninum*: knocking on the host cell's door

Nathalie Vonlaufen, 2003: Hiding inside the host: Development and application of *Neospora caninum* bradyzoite *in vitro* culture

Mirjam Walker, 2004: Echinococcosis: parasite survival strategies and novel treatment options

Sangeetha Srinivasan, 2006: Studies on putative vaccine candidates for prevention of cerebral *Neospora caninum* infection

Angela Leepin, 2007: Host cell participation in the *in vitro* effects of new generation diamidine-analogues against tachyzoites of the intracellular apicomplexan parasites *Neospora caninum* and *Toxoplasma gondii*

Marco Esposito, 2007: Investigation of a new class of compounds against *Neospora caninum*: the thiazolides, their efficacy and mode of action.

Martin Spicher, 2008: Alveolar Echinococcosis: prospective novel treatment options for an old disease

Karim Debache, 2010: *Neospora caninum*: from genes to vaccines

Britta Stadelmann, 2010: To be or not to be": the importance and application of EmPGL in alveolar echinococcosis

Tatiana Küster, 2013: Alternative treatment options for alveolar echinococcosis

Thierry Monney, 2013: chimeric antigens for vaccination against *Neospora caninum* infection: studies in the mouse model

Isabel Hostettler, 2016: Development and application of a novel screening cascade for the identification of anti-theilerial drugs

Pablo Winzer: PhD thesis in progress

Nicoleta Anghel: PhD thesis in progress

6. Prizes fellowships. Awards

1997: "Schlaefli-Preis". Research award, Swiss Academy of Natural Sciences

1999: "Mention Speciale", awarded within the framework of OPAL (Organization pour l'assistance d'animaux laboratoires), Faculte de Pharmacie, Paris.

2001: Lecture Fellowship: Australian Society for Parasitology (July, 2001)

2005: Dieter Lüttiken Award for the development of *in vitro* culture models as alternative for animal experimentation (AKZO NOBEL / Intervet)

2006: Egon Naef Award for the development of techniques for the reduction of animal experiments (Fondation Egon Naef; Geneva).

2011: Certificate of merit, granted by the International Association of Hydatidology as recognition for contributions in the field (September 2011)

7. Governing positions

1999-2007: Swiss Society of Tropical Medicine and Parasitology: Executive committee member (1999-2001) and President (2002-2007)
2010-date: Editor *Parasitology* (Cambridge University Press)
2014-2016: Leader of the Research Focus “host-pathogen-interactions”, Vetsuisse Faculty, Bern
2016-date: Executive committee member of the German Society of Parasitology

8. organization of conferences

COST Action 820: Member of the Management Committee (until 2000); Organizer of annual meeting in Interlaken (November 1999)
COST Action 854: Member of the Management Committee; Organization of WG1/WG2 (cell biology/immunology) meeting in Münchenwiler (December 2002)
COST Action 857: Swiss representative in the Management Committee (2003-2008)
Organization WG2 (gene expression) workshop on proteomics in Liverpool (2004).
Co-organizer of the Annual workshop 2005 (Beatenberg, Switzerland)
ApiCOWplexa: Co-initiator of the network on apicomplexan parasites in farm animals. Co-organizer of annual meeting 2012 (Lisbon) & 2013 (Kusadasi, Turkey); member of the scientific committee 2015 (Edinburg, Scotland) & 2017 (Madrid)
2005-2016: Co-organizer of the annual meeting for PhD and doctoral students, Swiss Society of Tropical medicine and Parasitology

9. Andrew Hemphill, invited oral presentations

Invited talks

Hemphill, A. 1989. Ultrastructure of the *Trypanosoma brucei* cytoskeleton investigated by quick-freeze, deep-etch, rotary-shadowing immunogold electron microscopy. Departmental Seminar, Institute for General Microbiology, University of Bern.

Hemphill, A. 1991. A novel microtubule binding domain identified on a microtubule associated repetitive protein of *Trypanosoma brucei*. Departmental Seminar, Institute for General Microbiology, University of Bern.

Hemphill, A. 1991. The cytoskeleton of *Trypanosoma brucei*. Departmental Seminar at the Institute of Parasitology, University of Zürich.

Hemphill, A. 1992. Microtubule associated proteins in the cytoskeleton of *Trypanosoma brucei*. Seminar at the Institute of Cell Biology, ETH-Zürich.

Hemphill, A. 1992. Cytoskeletal proteins in African trypanosomes. Seminar at the Intercampus Program in Molecular Parasitology. University of California at San Francisco, USA.

Hemphill, A., M. Affolter, and T. Seebeck. 1993. A novel microtubule binding motif identified in a high molecular weight MAP from *Trypanosoma brucei*. The British Society for Experimental Biology, Canterbury Meeting. Canterbury, U. K.

Hemphill, A. 1993. Identification of a novel microtubule binding domain in the *Trypanosoma brucei* cytoskeleton. The British Society for Microbiology: Symposium on the Microbial Cytoskeleton. Manchester, U.K.

Hemphill, A. 1994. The cytoskeleton of *T. brucei*: Ultrastructural investigations and characterization of cytoskeletal proteins. Departmental Seminar, Centre for Tropical Veterinary Medicine (CTVM), University of Edinburgh, Scotland.

Hemphill, A. 1994. Trypanosome-endothelial cell interactions. Departmental Seminar, Department of Medical Parasitology, London School of Hygiene and Tropical Medicine. London, U. K.

Hemphill, A. 1994. Trypanosome-endothelial cell interactions. Parasitologie Seminar. Institut fuer Parasitologie, Universität Bern.

Hemphill, A. 1995. Proliferation and differentiation of *Echinococcus multilocularis* metacestodes during *in vitro* cultivation. Seminar, Department of Medical Parasitology, London School of Hygiene and Tropical Medicine, London, U.K.

Hemphill, A. 1995. Flagellum-mediated adhesion of *Trypanosoma congolense* onto endothelial cells. MTC, Karolinska Institut, Stockholm, Schweden.

Hemphill, A. 1996. Identification, subcellular localization and functional characterization of molecules in *Neospora caninum* tachyzoites which are involved in host-parasite interactions.

COST 820. Vaccines against Animal Coccidiosis. 1996 Annual workshop. Copenhagen, Denmark (Invited speaker).

Hemphill, A. 1997. Investigations on host parasite interactions during neosporosis and alveolar echinococcosis. Departmental Seminar at the Institute of Medical Microbiology and Hygiene, Johannes Gutenberg University, Mainz, Germany.

Hemphill, A. 1998. Antigen detection and characterization. (Invited lecture). Proceedings of the COST 820 workshop: Vaccines against coccidiosis. 22.-25 October, Toldedo, Spain.

Hemphill A. 1999. In vitro culture of *E. multilocularis* metacestodes and its applications. Invited Seminar at the Swedish University of Agricultural Sciences, University of Uppsala, Sweden (June).

Hemphill A. 1999. Development and application of a drug testing system for *E. multilocularis* metacestodes. Seminar at Novartis Animal Health, Saint Aubain.

Hemphill A. 2000. *Neospora caninum*: Novel proteins for a novel parasite. Swiss Trypanosomatid Meeting Les Diablerets, January 27-29

Hemphill A. 2001. In vitro culture of *Echinococcus multilocularis* metacestodes: A novel tool for in vitro drug screening. Novartis Animal Health, Saint Aubin.

Hemphill A. 2001. Advances in the molecular biology of *Neospora caninum* and parallels with the related apicomplexan *Toxoplasma gondii*. Invited seminar at the Istituto Superiore di Sanita, Viale Regina Elena, Roma. May 25.

Hemphill, A. 2001. In vitro culture of *E. multilocularis* metacestodes: development and applications. XXth International Congress for Hydatidology. June 4-8, Kusadasi, Turkey (Invited speaker).

Hemphill A. 2001. Molecular aspects of host-parasite interactions during infection with *Neospora caninum*. Plenary lecture, VIIIth. World Coccidiosis Conference, July 9-13, Cairns, Australia

Hemphill, A. 2001. *Neospora caninum* host cell interactions. Research seminar at the Walter and Eliza Hall Institute for Medical Research, Melbourne, Australia, July 15 (ASP-lecturer)

Hemphill, A. 2001. The cell biology of *Neospora caninum*. Research seminar at the Molecular Parasitology Unit, University of Technology, Sydney, Australia, July 19 (ASP-lecturer)

Hemphill, A. 2002. Development of an in vitro culture system for *Neospora caninum* tachyzoite-bradyzoite stage conversion. Kurs für Labortierkunde, Dept. of Clinical Pharmacology, University of Berne, April 19.

Hemphill, A. 2002. *Neospora-caninum* host cell interactions. Research seminar at the Institute of Animal Health, Compton, England, June 27.

Hemphill, A. 2002. Host-parasite interactions during infection with *Neospora caninum*: from genes to vaccines. Research seminar at the Dept. of Veterinary Pathobiology, University of Illinois, Urbana, USA, September 18.

Hemphill, A. 2002. Molecular aspects of host-parasite interactions during infection with *Neospora caninum*. Research seminar at the College of Veterinary Medicine, University of Missouri, Columbia, USA, September 20

Hemphill, A. 2002. The host-parasite interplay in alveolar echinococcosis. Ille cycle romand en science biologique. Museum d'histoire naturelle de Geneve. October 2.

Hemphill, A. 2003. Vaccination of mice against cerebral *N. caninum* infection using recombinant antigens and DNA vaccines. Joint workshop of the Working groups 1 & 3, COST854, Muenchenwiler, Switzerland. December 4-5.

Hemphill, A. 2003. Molekulare und zellbiologische Untersuchungen zur Interaktion zwischen *Neospora caninum* und seiner Wirtszelle. Institut für Parasitologie, Veterinärmedizinische Fakultät, Universität Giessen. Februar 13.

Hemphill, A. 2003. Development and application of in vitro culture system for *Neospora caninum* tachyzoite-bradyzoite stage conversion. Kurs für Labortierkunde, Dept. of Clinical Pharmacology, University of Berne, April 2.

Hemphill, A. 2003. *Echinococcus multilocularis* und alveoläre Echinococcosis. Fortbildungs-Seminar Labor Gräub. Bern. Sept. 17.

Hemphill, A. 2003. Visualizing parasites. Seminar within the framework of the PhD-programme of the Faculty of Veterinary Medicine, University of Berne. October 15.

Hemphill, A. 2003. Nitazoxanide, albendazole, and alveolar echinococcosis. Herbsttagung der Sektion Antiparasitäre Chemotherapie der Paul-Ehrlich Gesellschaft fuer Chemotherapie, Schloss Reisingburg, Guenzburg. November 18.

Hemphill, A. 2004. Alveolar echinococcosis: novel findings on an old disease. Seminar, Institute of Medical Microbiology, Heinrich Heine University Düsseldorf. April 6.

Hemphill, A. 2004. In vitro culture of *Neospora caninum* bradyzoites. Kurs für Labortierkunde, Dept. of Clinical Pharmacology, University of Berne, April 13.

Hemphill, A. 2004. Secondary and primary alveolar echinococcosis: Combined albendazole/nitazoxanide chemotherapy exhibits profound anti-parasitic efficacy. Lab-meeting, Department of Clinical Pharmacology, University of Berne, May, 6.

Hemphill, A. 2005. Thiazolides and parasites. Seminar Drugs for neglected diseases initiative, DNDi. Geneva, April 14

Hemphill, A. 2005. Knocking on heaven's door: how *Neospora caninum* is invading its host cells. Seminar at the Institute of Medical Microbiology, University of Göttingen, Germany, May 4.

Hemphill, A. 2005. *Neospora caninum*-host cell interactions. Seminar at the Bernhard Nocht Institute, Hamburg, Germany, June 24

Hemphill, A. 2006. Thiazolides and parasites. Seminar at the University Hospital Geneva, Dept. of Tropical Diseases, Geneva, January 26.

Hemphill, A. 2006. In vitro and in vivo studies concerning anti-echinococcal efficacies of nitazoxanide and nitazoxanide derivatives. Meeting on clinical experiences with nitazoxanide in echinococcosis. Gottlieben, Germany, June 16

Hemphill, A. 2006. Echinococcus: novel findings on an old disease. Seminar at the Institute for Hygiene and Microbiology, University of Würzburg. Würzburg, Germany, June 27.

Hemphill, A. 2006. Nitazoxanide and other thiazolides: a novel class of broad range anti-parasitic agents. International Congress on Parasitology, ICOPA-2006, Glasgow, Scotland, August 6-11.

Hemphill, A. 2006. Neues zur experimentellen Chemotherapie der Echinococcose. Symposium zu Ehren Prof. R. Amman, Prof. J. Eckert. Zürich, September 8.

Hemphill, A. 2006. Echinococcus multilocularis and alveolar echinococcosis: novel findings on an old disease. Annual Meeting of the American Society of Hygiene and Tropical Medicine, Atlanta, USA, Nov. 12-16.

Hemphill, A. 2006. Current and prospective tools for therapy of alveolar echinococcosis. Annual Meeting of the American Society of Hygiene and Tropical Medicine, Atlanta, USA, Nov. 12-16.

Hemphill, A. 2006. In vitro culture of *Echinococcus multilocularis*: a valuable alternative to animal experimentation. Fondation Egon Naef, Geneva, December

Hemphill, A. 2007. Alternatives for animal experimentation: *Echinococcus multilocularis* and *Neospora caninum*. Intervet International, Boxmeer, Holland, March 7.

Hemphill, A. Gottstein B. 2007. The host-parasite-parasite relationship during infection with *Echinococcus multilocularis*. Echinococcus Symposium, Royal Society of Tropical Medicine and Hygiene, Royal College of Pathologists, London, UK. April 12.

Hemphill, A. 2007. In vitro culture methods for the different life cycle stages of the parasite *Neospora caninum*. 20th anniversary: SGV-VAWV-3R Research Foundation. Annual meeting. University of Zurich-Irchel. Sept. 3-4.

Hemphill A. 2008. Vaccines against neosporosis. Invited Seminar, Faculty of Veterinary Medicine, University of Lisbon, Lisbon, Portugal. December 5

Hemphill, A. 2009. *Neospora caninum*, experimental models, antigens and vaccines. Invited talk at Intervet (Shering Plough), Boxmeer, Holland, June 24.

Hemphill, A. 2010. In vitro screening for new compounds against *Echinococcus multilocularis* metacestodes identifies anti-echinococcal activity of mefloquine. Epidemiology of Alveolar Echinococcosis in Europe: monitoring and control perspectives, recent development and trends. Nancy, France. December 8-9.

Hemphill, A. 2010. Vaccines and drugs against cyst-forming apicomplexan parasites. Mikrobiot 2010. Scientific meeting on biotechnology of infectious diseases, University of Lodz, Lodz Poland. September 9-10.

Hemphill, A. 2011. Identification of drugs and targets in parasitic diseases. Invited seminar, University of Evora, Portugal. May 13

Hemphill A. How to write a scientific paper. Seminar at the Faculty of Veterinary Medicine, Lissabon University. June 8, 2011

Hemphill A. Potential novel treatment options for echinococcosis: results of in vitro and experimental studies. XXIV World Congress of Hydatidology, Urumqui, China, Sept. 14-18, 2011

Hemphill A. Vaccines against neosporosis. Indo-Swiss Symposium on parasitic diseases. Jawaharlal Nehru University, New Delhi, India. Nov.3-4. 2011

Hemphill A. Drugs and drug targets in parasitic diseases. Departmental seminar, University of Neuchatel, March 1, 2012.

Hemphill A. A license to kill: novel drugs against alveolar echinococcosis. Meeting of the Turkish Society of Hidatidology, Gaziantep, Turkey, September 12-15, 2012.

Hemphill A. Drugs and drug targets in parasites. Science and Barbeque day, Vetsuisse Faculty, University of Zürich, Switzerland, August 22, 2012.

Hemphill A. Echinococcus multilocularis and alveolar echinococcosis: host response and the development of novel potential treatment options. PhD retreat, Graduate School, University of Zürich, Richisau, October 8, 2012

Hemphill A. In vitro induction of stage conversion in the parasite *Neospora caninum*. 25 years Research 3R: Swiss consensus platform for 3R alternative to animal experimentation. University of Zürich, Switzerland, November 19, 2012.

Hemphill A. 2014. Albendazole and mebendazole, what else? Symposium on Innovation for the management of Echinococcosis, Besancon, France. March 27-29.

Hemphill A. 2014. Targeting host cell invasion mechanisms for the development of drugs and vaccines against *Neospora caninum* infection – a valid approach? 11th International Coccidiosis Conference, Dresden Germany, September 28.

Hemphill A. 2014. Alveolar Echinococcosis: novel drugs on the horizon? 24th Annual meeting of the Paul Ehrlich Gesellschaft for Chemotherapy, Weimar, Germany. October 17.

Hemphill A. 2014. Vaccines and drugs against *Neospora caninum* and related apicomplexans. Invited Seminar, University of Evora, November 19.

Hemphill, A. 2014. Targeting host cell invasion mechanisms for the development of vaccines and drugs against *Neospora caninum* infection- a valid approach? 11th International Coccidiosis Conference, Dresden, September 26-30

Hemphill A. 2015. Interference in host cell invasion: an approach to develop vaccines and drugs against infection with *Neospora caninum* and related parasites. Apicowplexa 3: 3rd international meeting on apicomplexan parasites in farm animals. Edinburgh, Scotland, June 30-July 2

Hemphill A. 2015: Apicomplexan parasites: survival artists and their astonishing adaptive potential to anti-proliferative drugs. VII. European Congress of Protistology, Sevilla, Spain, September 7

Hemphill A. 2016. Of mice and sheep: prevention and treatment of *Neospora caninum* infections. Institute Seminar, Institute of Parasitology, University of Zürich. October 18.

Hemphill A. Of mice and sheep: vaccination and drug treatment of *Neospora caninum* infections. Invited seminar, Friedrich Löffler Institute, Insel Riems, Germany, May 5, 2017

Hemphill A. 2017. Drugs or immunotherapy: what is best for the future? 27th World Congress on Echinococcosis. Algiers, Algeria. October 7.

Hemphill A. *Toxoplasma*. Postgraduate course in Parasitology, Ministre de l'Enseignement Sup.érieur et de la Recherche Scientifique, Monastir University, December 6-8, 2017.

Hemphill A. Drugs and targets in parasitic diseases: general considerations. Postgraduate course in Parasitology, Ministre de l'Enseignement Supérieur et de la Recherche Scientifique, Monastir University, December 6-8, 2017.

Hemphill A. Research topics in Echinococcosis. Postgraduate course in Parasitology, Ministre de l'Enseignement Supérieur et de la Recherche Scientifique, Monastir University, December 6-8, 2017.

Hemphill A. Scientific writing tips. Postgraduate course in Parasitology, Ministre de l'Enseignement Supérieur et de la Recherche Scientifique, Monastir University, December 6-8, 2017.

Hemphill A. 2017. Drugs and drug targets in pregnant models for *Toxoplasma* and *Neospora* infection. Apicowplexa 4: 4th international meeting on apicomplexan parasites in farm animals. Madrid, October 11-14.

Hemphill A. 2018. Studies on novel preventive and therapeutic tools to tackle diseases caused by apicomplexan parasites. Seminarios investigación platera, Universidad Complutense de Madrid. April 24.

Hemphill A. 2018. Vaccination against *Neospora caninum* infection: studies in the mouse model. Invited seminar, Royal Veterinary College, London. May 16.

Hemphill A. 2018. Drugs and drug targets in pregnant models for toxoplasmosis and neosporosis. European Coccidiosis Discussion Group, Royal Veterinary College London, May 17.

Hemphill A. 2018. Novel drugs and drug targets for the treatment of *Toxoplasma gondii* infections. CIISA congress: exploring the boundaries of animal, veterinary and biomedical sciences. Lisbon November 16-17.

10. Oral presentations at meetings (only held by myself)

Hemphill, A., A. Schneider, and T. Seebeck. 1988. Purification and preliminary characterisation of a microtubule associated protein of *Trypanosoma brucei*. Annual Swiss Trypanosomatid Meeting, Les Diablerets.

Hemphill, A. T. Seebeck, and D. Lawson. 1990. The cytoskeleton of *Trypanosoma brucei* investigated by quick freeze electron microscopy. Annual Swiss Trypanosomatid Meeting, Les Diablerets.

Hemphill, A. M. Affolter, and T. Seebeck. 1992. Characterization of a family of high molecular weight microtubule associated proteins in the cytoskeleton of *T. brucei*. Annual Swiss Trypanosomatid Meeting. Les Diablerets.

Hemphill, A. 1992. A family of MAPs in the cytoskeleton of African trypanosomes. Meeting of the Swiss Cytoskeleton Club, University of Bern.

Hemphill, A., and C. A. Ross. 1994. Endothelzell Interaktionen mit Trypanosomen. Jahrestagung Schweizerische Gesellschaft fuer Tropenmedizin und Parasitologie. Leysin, CH. (Schweizerische Medizinische Wochenschrift. 125 / 18: 21)

Hemphill, A., and B. Gottstein. 1995. *In vitro* cultivation of the larval stage *Echinococcus multilocularis*. Spring Meeting of the British Society of Parasitology. University of Edinburgh, Edinburgh, Scotland.

Hemphill, A., and Ross, C. A. 1995. Trypanosome-endothelial cell interactions. Spring Meeting of the British Society of Parasitology. University of Edinburgh, Edinburgh, Scotland.

Hemphill, A. and B. Gottstein. 1995. Adhesion and invasion of bovine endothelial cells by *Neospora caninum*. Jahrestagung der Schweiz. Gesellschaft fuer Tropenmedizin und Parasitologie, Sarnen, CH. (Schweizerische Medizinische Wochenschrift 126: 1216)

Hemphill, A., B. Hentrich, R. Felleisen, and B. Gottstein. 1996. Studies on the physical interaction between *Neospora caninum* and endothelial cells. 17. Tagung der Deutschen Gesellschaft fuer Parasitologie, München, Deutschland.

Hemphill, A. 1996. Studies on the interaction between *Neospora caninum* and endothelial cells. Spring Meeting of the British Society of Parasitology, Bangor Wales, U. K.

Hemphill, A., N. Mueller and B. Hentrich. 1996. *Neospora caninum*: Characterization of parasite molecules involved in host-parasite interactions. Jahrestagung der Schweizerischen Gesellschaft fuer Tropenmedizin und Parasitologie, Neuchatel. (Schweiz. Medizinische Wochenschrift 39: 1629)

Hemphill, A., N. Fuchs, S. Sonda, B. Hentrich, B. Gottstein and N. Müller. 1997. Characterization of Nc-p43, a major *Neospora caninum* surface protein. VII. International Coccidiosis Conference. Oxford University, England.

Ingold K., P. Bigler, W. Thormann, B. Gottstein and **A. Hemphill**. 1999. *In vitro* drug treatment of *Echinococcus multilocularis* metacestodes. 17th International Conference of the World Association of Veterinary Parasitology. Aug. 15.-19. Copenhagen

Fuchs N., K. Ingold, S. Sonda and **A. Hemphill**. 1999. Assessment of surface carbohydrates of *Neospora caninum* tachyzoites. 17th International Conference of the World Association of Veterinary Parasitology. Aug. 15.-19. Copenhagen

Fuchs N., K. Ingold, S. Sonda, P. Bütikofer, and **A. Hemphill**. 1999. Surface carbohydrates of *Neospora caninum* tachyzoites. Proceedings: COST820 1999 Annual Workshop, November 11-14, Interlaken, Switzerland (invited).

Fuchs N., K. Ingold, S. Sonda and **A. Hemphill**. 1999. Glycoconjugates on the surface of *Neospora caninum* tachyzoites. Swiss Society of Tropical Medicine and Parasitology, Annual Congress, November 5-6, Solothurn, Switzerland

Sonda S., A. Cannas, N. Keller and **A. Hemphill**. 2000. Molecular characterization of a 38 kDa protein associated with the micronemes of *Neospora caninum*. COST 820 annual workshop, June 15-18, Dublin, Ireland.

Hemphill A., N. Mueller, B. Gottstein. The host-parasite relationship during infection with *Neospora caninum*. First Meeting of the Club on Host Interaction with Pathogens (CHIP), University of Bern. May 12-13, Gwatt, Switzerland.

Hemphill A., A. Cannas, N. Keller, N. Vonlaufen and N. Arunasalam. 2000. Molecular studies on the physical interaction between *Neospora caninum* and host cells. Annual Meeting of the Swiss Society of Tropical Medicine and Parasitology, November 9-10, Fribourg, Switzerland.

Hemphill, A., N. Mueller, H. Sager, B. Gottstein. 2001. Molecular aspects of host-parasite interactions during infection with *Neospora caninum*. CHIP-Meeting, June 22-23, Greifensee, Switzerland.

Vonlaufen, N., C. Gianinazzi, S. Leib, and **A. Hemphill**. 2001. Organotypic culture model for *Neospora caninum* CNS infection. *Neospora* 2001; Pentlands Science Park, September 13. – 15. Edinburgh, Scotland.

Vonlaufen, N., C. Gianinazzi, S. Leib, and **A. Hemphill**. 2001. Organotypic slice culture model for *Neospora caninum* central nervous system infection as a tool to study host-parasite interactions. Meeting of the Swiss and Italian Societies of Tropical Medicine and Parasitology. September 30-October 3. Pontresina, Switzerland.

Vonlaufen, N., W. Bohne, E. Müller, R. Caldelari, and **A. Hemphill**. 2002. *Neospora caninum* in vitro tachyzoite-bradyzoite stage conversion in naturally immortalized murine epidermal keratinocytes. Joint Annual Meeting of the German and Dutch Societies for Parasitology, Lübeck, Travemünde, March 20-23.

Hemphill, A. 2003. How *Neospora caninum* interacts with host cells. Joint workshop of the Working groups 1 & 3, COST854, Muenchenwiler, Switzerland. December 4-5.

Hemphill, A. 2003. Echinococcosis. Annual Meeting of the Swiss Societies of Microbiology, Infectiology and Tropical Medicine and Parasitology. March 6-7, Congress Centre, Basel, Switzerland.

Hemphill, A. 2003. Host-parasite interactions during *Neospora caninum* infection. Annual Meeting of the Swiss Societies of Microbiology, Infectiology and Tropical Medicine and Parasitology. March 6-7, Congress Centre, Basel, Switzerland.

Naguleswaran, A., N. Müller, and **A. Hemphill**. 2003. Development of a novel PCR-based assay reveals distinct differences in host cell interactions between *Toxoplasma gondii* and *Neospora caninum*. Meeting of the British Society of Parasitology, April 6-9, UMIST, Manchester, England.

Hemphill, A. 2003. *Neospora* and *Toxoplasma*: similar but not alike. 7th International Congress on Toxoplasmosis. May 23-27, Tarrytown, NY, USA.

Hemphill, A., M. Stettler, M. Walker, and J. F. Rossignol, 2004. Efficacy of nitazoxanide against *Echinococcus multilocularis* metacystodes in vitro and in the mouse model. German Society for Parasitology, Jahrestagung, Wuerzburg, Germany. March 17-20

Vonlaufen, N., N. Guetg, N. Müller, and **A. Hemphill**. 2004. In vitro induction of *Neospora caninum* bradyzoites in Vero cells reveals differential antigen expression, localization, and host cell recognition of tachyzoites and bradyzoites. German Society for Parasitology, Jahrestagung, Wuerzburg, Germany. March 17-20

Alaeddine, F., N. Keller, A. Leepin, and **A. Hemphill**. 2004. Reduced infection and protection from clinical signs of cerebral neosporosis in C57BL/6 mice vaccinated with the recombinant microneme antigen NcMIC1. German Society for Parasitology, Jahrestagung, Wuerzburg, Germany. March 17-20

Naguleswaran, A., N. Vonlaufen, and **A. Hemphill**. 2004. The role of protein disulfide isomerase in *Neospora*-host cell interaction. 1st annual workshop COST857, Lisbon, May, 3-5.

Hemphill, A., M. Stettler, M. Walker, B. Gottstein, P. Torgerson, and J. F. Rossignol, 2004. In vitro and in vivo efficacies of nitazoxanide and albendazole/nitazoxanide combination against experimental larval *Echinococcus multilocularis* and *E. granulosus* infections. XXIst International Congress of Hydatidology, Nairobi, Kenya. August 16-20.

Hemphill, A., and F. Alaeddine. 2004. Reduced infection and protection from clinical signs of disease in mice vaccinated with recombinant microneme protein NcMIC1. Joint annual workshop of COST854/COST857(WG2), Liverpool, September 7-9.

Esposito, M., R. Stettler, A. Leepin and **A. Hemphill**. 2004. In vitro efficacy of the 5-nitrothiazole analogue nitazoxanide against *Neospora caninum* and *Toxoplasma gondii* tachyzoites. Joint annual workshop of COST854/COST857(WG2), Liverpool, September 7-9.

Hemphill, A., N. Keller, M. Riesen, J. Mueller, S. Srinivasan, and J. Wastling. 2004. Identification and characterization of a lectin-like protein (NcMIC4) in *Neospora caninum*. Joint annual workshop of COST854/COST857(WG2), Liverpool, September 7-9.

Walker, M., J-F. Rossignol, P. Torgerson, and **A. Hemphill**. 2004. In vitro effects of nitazoxanide on *Echinococcus granulosus* protozoocytes and metacystodes. 53^d Annual Meeting of the American Society of Tropical Medicine and Hygiene, Miami Beach, Florida, USA. Nov. 7-11.

Stettler, M., J. F. Rossignol, M. Walker, B. Gottstein and **A. Hemphill**. 2004. Nitazoxanide, albendazole, and alveolar echinococcosis. 53^d Annual Meeting of the American Society of Tropical Medicine and Hygiene, Miami Beach, Florida, USA. Nov. 7-11.

Esposito, M., N. Müller, J. F. Rossignol, and **A. Hemphill**. 2005. In vitro efficacy of nitazoxanide and other thiazolides against intracellular *Neospora caninum* tachyzoites reveals anti-parasitic

activity independent of the nitro group. 54th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, USA. Dec. 11-15.

Naguleswaran, N., Spicher, M., L. Ortega-Mora, J. F. Rossignol, and **A. Hemphill**. 2005. In vitro efficacy of flavonoids against *Echinococcus multilocularis* and *Echinococcus granulosus* larval stages. 54th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, USA. Dec. 11-15.

Walker, M., M. Spicher, T. Brunner, B. Gottstein, and **A. Hemphill**. 2005. Isolation and characterization of Em492, a secretory component from *Echinococcus multilocularis* metacestodes potentially involved in suppression of the cellular immune response. 54th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, USA. Dec. 11-15.

Esposito, M., N. Müller, J. Müller, A. Naguleswaran, A. Mathis, and **A. Hemphill**. 2006. In vitro efficacy of nitazoxanide and other thiazolides against *Neospora caninum* and *Cryptosporidium parvum* reveals anti-parasitic activity independent of the nitro group. 22nd Annual Meeting of the German Society for Parasitology, Vienna, Austria. Feb. 22-25.

Naguleswaran, N., J. Müller, N. Vonlaufen, and **A. Hemphill**. 2006. Functional involvement of *Neospora caninum* protein disulfide isomerase in tachyzoite-host cell interactions. 22nd Annual Meeting of the German Society for Parasitology, Vienna, Austria. Feb. 22-25.

Hemphill, A. Treatment of *Neospora caninum* with nitazoxanide and other thiazolides interferes in functional activity of protein disulfide isomerase. 2006. Annual workshop COST857, May 17-20, 2006, Dresden, Germany

Hemphill, A. 2006. Targeting of protein disulfide isomerase through drug treatment and vaccination in *Neospora caninum* and other apicomplexan parasites. Joint Meeting of the Royal Society of Tropical Medicine and Hygiene and the Swiss Society of Tropical Medicine and Parasitology. Sept. 22-23, Basel, Switzerland.

Hemphill, A. 2007. Treatment of *Neospora caninum* and other apicomplexan parasites with nitazoxanide and other thiazolides interferes in protein disulfide isomerase activity. Meeting of the WAAVP, Gent Belgium, August 20-24

Spicher M, A. Naguleswaran, B. Stadelman, and **A. Hemphill**. 2007. In vitro and in vivo efficacy of the anti-cancer agent 2-methoxy-estradiol (2ME), either alone or in combination with albendazole, against *Echinococcus multilocularis* metacestodes. Meeting of the WAAVP, Gent Belgium, August 20-24.

Spicher M, Keiser J, and **Hemphill A.** 2007. Characterization of the in vitro activities of artemisinin-derivatives against *Echinococcus multilocularis* metacestodes. 56th Annual meeting of the ASTMH, Philadelphia, USA. Nov.4-8

Hemphill, A. 2008. Anti-parasitic activities of thiazolides and potential drug targets in *Neospora caninum* and host cells. Annual workshop COST857, May 27-31, Kolymbari, Crete, Greece.

Debache, K. and **Hemphill, A.** 2008. Reduction of cerebral infection and mortality, and effects on transplacental transmission of *Neospora caninum*, upon immunization of mice with recombinant NcROP2 antigen-based vaccines. Annual workshop COST857, May 27-31, Kolymbari, Crete, Greece.

Hemphill A. 2008. *Neospora caninum* and neosporosis: novel targets for prevention and disease. Xth European Multicolloquium of Parasitology.. August 24-28. Paris, France

Hemphill, A. 2008. In vitro and in vivo treatment of *Echinococcus* metacestodes with artemisinin derivatives artesunate and dihydro-artemisinin. Xth European Multicolloquium of Parasitology. August 24-28. Paris, France

Hemphill, A. 2009. Vaccines against neosporosis: studies in the mouse model. 10th International Congress on Toxoplasmosis, June 19-23. Kerkrade, the Netherlands,

Hemphill, A. Stadelmann B, Küster T, Herrmann C, Scholl S, Müller J. 2010. In vitro screening for new compounds against *Echinococcus multilocularis* metacestodes identifies anti-echinococcal activity of mefloquine. Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 3-7, Atlanta, Georgia, USA.

Kropf, C., Debache, K., **Hemphill, A.** 2010. Differential effects of pentamidine derivatives against *Toxoplasma gondii* and *Neospora caninum* in vitro. Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 3-7, Atlanta, Georgia, US

Spiliotis, M., Stadelmann, B., Aeschbacher, D., **Hemphill, A.** 2013. Validation and application of a cellular large-scale drug-screening assay for the identification of novel chemotherapies against human alveolar echinococcosis. Drug Design and Development Seminar, Würzburg, April 11-13.

Hemphill, A., Küster, T., Kriegel, N., Boyking, D. W., Stephens, C. E. 2013. *In vitro* and *in vivo* activities of dicationic compounds against *Echinococcus multilocularis* metacestodes. 24th International Conference of the World Association for the Advancement of Veterinary Parasitology. Perth, August 25-29

Hemphill, A., Barna, F., Debache, K., Vock, C. A. 2013. *In vitro* (& *in vivo*) effects of novel ruthenium complexes in *Neospora caninum* and *Toxoplasma gondii* tachyzoites. 24th International Conference of the World Association for the Advancement of Veterinary Parasitology. Perth, August 25-29

Hemphill, A., Barna, F., Debache, K., Vock, C. A. 2013. *In vitro* (& *in vivo*) effects of novel ruthenium complexes in *Neospora caninum* and *Toxoplasma gondii* tachyzoites. Apicowplexa 2: 2nd international meeting on apicomplexan parasites in farm animals. Kusadasi, Turkey, October 31-November 2

Hemphill A., Rufener, R., Stadelmann, B. 2016. Screening of the Open Source malariabox reveals novel potential drug candidate for the treatment of alveolar echinococcosis. 27th meeting of the German Society for Parasitology, Göttingen, March 9-12

Hemphill A. Müller J, Aguado A., Hostettler, I. 2016. Repurposing of antiparasitic drugs – the hydroxy-naphthoquinone buparvaquone inhibits vertical transmission in the pregnant neosporosis mouse model. 27th meeting of the German Society for Parasitology, Göttingen, March 9-12

Hemphill A. 2017. Bumped kinase inhibitors and their effects during experimental infection with the apicomplexan parasites *Neospora caninum* & *Toxoplasma gondii*: Proof of concept in pregnant mouse models. Annual meeting of the Swiss Society of Tropical Medicine and Parasitology, Basel, August 30.

