

Dr. Berit Bangoura

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Education and professional qualifications

Dec. 2016	Completion of course "Didactics in a university setting" (Germany)
Sep. 2015	Habilitation, Faculty of Veterinary Medicine, Leipzig University. Topic of the habilitation thesis: "Toxoplasmosis and eimeriosis-associated enteritis – practically relevant and comparative aspects and of different coccidiosis in poultry"; Supervisor: Prof. Dr. A. Dauschies
Jan. 2014	Diplomate of the European Veterinary Parasitology College, EBVS® Veterinary Specialist in Parasitology
May. 2009	Specialist in Parasitology (Germany)
Mar. 2008	PhD (Dr. med. vet.), Faculty of Veterinary Medicine, Leipzig University. Topic of the dissertation thesis: "Studies on the characterization and metaphylactic control of <i>Eimeria zuernii</i> – coccidiosis in calves"; Supervisor: Prof. Dr. A. Dauschies
Mar. 2003	Veterinary Approbation (DVM)
Oct. 1997 – Feb. 2003	Veterinary medical studies, completed with State Examination

Professional career

Since May 2017	Assistant Professor for Parasitology at the Department of Veterinary Sciences, University of Wyoming
Feb. 2010 – April 2017	Head of the laboratory of molecular biology and genetic engineering safety level S2 and Head of the working groups for " <i>Toxoplasma</i> " and " <i>Eimeria</i> " projects, Institute for Parasitology, Faculty of Veterinary Medicine, Leipzig University
Jan. 2008 – April 2017	Research assistant (full-time) at the Institute of Parasitology, Faculty of Veterinary Medicine, Leipzig University
Sep. 2003 – Dec. 2007	Research assistant (part-time) at the Institute of Parasitology, Faculty of Veterinary Medicine, Leipzig University, PhD student

Current functions (since May 2017)

- Supervisor of the Parasitology unit of WSVL
- 50% WSVL diagnostic service, 25% teaching, 20% research, 5% academic service
- Current committee functions: -member of the WSVL media committee

Awards

- Mar. 2016 Invitation to the GAFOS meeting organized by Alexander von Humboldt-Foundation and NAS. Award of the **Kavli fellowship of the U. S. National Academy of Sciences.**
- Aug. 2009 Travel grant of Bayer Animal Health (Monheim, Germany) for the participation at the International Conference of the World Association for the Advancement of Veterinary Parasitology (W.A.A.V.P.), Calgary, Canada.

Editor and Review activities

- **Editor of Agraarteadus**, Journal of Agricultural Science, published by the Estonian Academic Agricultural Society, Tartu, Estonia
- **Section Editor of Parasitology Research**
- **Ad hoc reviewer (selected journals)**

Environmental Science & Technology	Parasitology Research
Journal of Veterinary Medicine and Animal Health	The Veterinary Journal
Molecules	The Veterinary Quarterly
Pakistan Veterinary Journal	Vaccine
Parasite	Veterinary Parasitology
Parasitology International	Water Research

Membership in professional organisations

- European Veterinary Parasitology College
- German Veterinary Society e. V. (DVG), section Parasitology and Parasitic Diseases
- German Research Platform for Zoonoses

Current Teaching

- PATB 4500/5500 Veterinary Parasitology (since fall 2017)

Publication list

1. Scientific peer-reviewed original papers

1. Malkwitz I, Berndt A, Dauschies A, **Bangoura B** (2018) Characterisation of susceptibility of chicken macrophages to infection with *Toxoplasma gondii* of type II and III strains. *Exp Parasitol.* 2018 Mar 5. pii: S0014-4894(17)30192-3. doi: 10.1016/j.exppara.2018.03.003
2. Azmanis P, di Somma A, Pappalardo L, Silvanose CD, **Bangoura B** (2018) First detection of *Cryptosporidium parvum* in falcons (Falconiformes): Diagnosis, molecular sequencing, therapeutic trial and epidemiological assessment of a possible emerging disease in captive falcons. *Vet Parasitol.* 252: 167-172. doi: 10.1016/j.vetpar.2018.02.012
3. Joachim A, Altreuther G, **Bangoura B**, Charles S, Dauschies A, Hinney B, Lindsay, DS, Mundt HC, Ocak M, Sotiraki S (2018) W A A V P guideline for evaluating the efficacy of anticoccidials in mammals (pigs, dogs, cattle, sheep). *Vet Parasitol.* 253: 102-119. doi: 10.1016/j.vetpar.2018.02.029
4. Hiob L, Koethe M, Schares G, Goroll T, Dauschies A, **Bangoura B** (2017) Experimental *Toxoplasma gondii* and *Eimeria tenella* co-infection in chickens. *Parasitol Res.* 2017 Nov;116(11):3189-3203.
5. Schares G, **Bangoura B**, Randau, F, Goroll T, Ludewig M, Maksimov, Matzkeit B, Sens M, Bärwald A, Conraths FJ, Opsteegh M, Van der Giessen J (2017) In contrast to large farms with free-range chickens, backyard farms were at risk of having a high prevalence of laying hens harbouring infective *Toxoplasma gondii* tissue cysts in meat. *Int J Parasitol.* 47(12):765-777. doi: 10.1016/j.ijpara.2017.07.003.
6. Taha S, Elmalik K, **Bangoura B**, Lendner M, Mossaad E, Dauschies A (2017) Molecular characterization of bovine *Cryptosporidium* isolated from diarrheic calves in the Sudan. *Parasitol Res.* 2017 Sep 13. doi: 10.1007/s00436-017-5606-8.
7. Thabet A, Schmidt J, Baumann S, Honscha W, von Bergen M, Dauschies A, **Bangoura B**: Resistance towards monensin is proposed to be acquired in a *Toxoplasma gondii* model by reduced invasion and egress activities, in addition to increased intracellular replication. *Parasitology.* 2017 Sep 5:1-13. doi: 10.1017/S0031182017001512.
8. Dyachenko V, Steinmann M, **Bangoura B**, Selzer M, Munderloh U, Dauschies A, Barutzki D (2017) Co-infection of *Trypanosoma pestanaei* and *Anaplasma phagocytophilum* in a dog from Germany, *Veterinary Parasitology: Regional Studies and Reports*, doi:10.1016/j.vprsr.2017.06.001
9. Thabet A, Honscha W, Dauschies A, **Bangoura B** (2017) Quantitative proteomic studies in resistance mechanisms of *Eimeria tenella* against polyether ionophores. *Parasitol Res.* 116(5):1553-1559. doi: 10.1007/s00436-017-5432-z.
10. Thabet A, Zhang R, Alnassan AA, Dauschies A, **Bangoura B** (2017) Anticoccidial efficacy testing: In vitro *Eimeria tenella* assays as replacement for animal experiments. *Vet Parasitol.* 15;233:86-96.
11. Malkwitz I, Berndt A, Zhang R, Dauschies A, **Bangoura B** (2017) Replication of *Toxoplasma gondii* in chicken erythrocytes and thrombocytes compared to macrophages. *Parasitol Res.* 116(1):123-131.

12. Dahlem D, **Bangoura B**, Ludewig E, Glowienka N, Baldauf K, Stoeckel F, Burgener I (2015) Tetrathyridiosis in a domestic shorthair cat. JFMS Open Rep. 1(2):2055116915615595. doi: 10.1177/2055116915615595. eCollection 2015 Jul-Dec.
13. Koethe M, Straubinger RK, Pott S, **Bangoura B**, Geuthner AC, Dausgschies A, Ludewig M (2015) Quantitative detection of *Toxoplasma gondii* in tissues of experimentally infected turkeys and in retail turkey products by magnetic-capture PCR. Food Microbiol. 52:11-17.
14. Alnassan AA, Thabet A, Dausgschies A, **Bangoura B** (2015) In vitro efficacy of allicin on chicken *Eimeria tenella* sporozoites. Parasitol Res. 114:3913-3915.
15. Lassen B, **Bangoura B**, Lepik T, Orro T (2015) Systemic acute phase proteins response in calves experimentally infected with *Eimeria zuernii*. Vet Parasitol. 212:140-146.
16. Thabet A, Alnassan AA, Dausgschies A, **Bangoura B** (2015) Combination of cell culture and qPCR to assess the efficacy of different anticoccidials on *Eimeria tenella* sporozoites. Parasitol Res. 114:2155-2166.
17. Mueller K, Nather S, Joern U, Stoeckel F, **Bangoura B** (2014) Severe granulomatous pneumonia in a young cat due to an infection with *Aelurostrongylus abstrusus*. Kleintierpraxis 59:200-206.
18. **Bangoura B**, Alnassan AA, Lendner M, Shehata AA, Krüger M, Dausgschies A. (2014) Efficacy of an anticoccidial live vaccine in prevention of necrotic enteritis in chickens. Exp Parasitol. 145:125-134.
19. Geuthner AC, Koethe M, Ludewig M, Pott S, Schares G, Dausgschies A, **Bangoura B** (2014) Persistence of *Toxoplasma gondii* tissue stages in poultry over a conventional fattening cycle. Parasitology. 141:1359-1364.
20. Alnassan AA, Kotsch M, Shehata AA, Krüger M, Dausgschies A, **Bangoura B** (2014) Necrotic enteritis in chickens: development of a straightforward disease model system. Vet Rec. 174:555.
21. Hotop A, Buschtöns S, **Bangoura B**, Zöllner B, Koethe M, Spekker-Bosker K, Hotop SK, Tenter AM, Däubener W, Straubinger RK, Groß U (2014) Humoral immune responses in chickens and turkeys after infection with *Toxoplasma gondii* by using recombinant antigens. Parasitol Res. 113:1473-1480.
22. Alnassan AA, Shehata AA, Kotsch M, Schrödl W, Krüger M, Dausgschies A, **Bangoura B** (2013) Efficacy of early treatment with toltrazuril in prevention of coccidiosis and necrotic enteritis in chickens. Avian Pathol. 42:482-490.
23. Malkwitz I, Berndt A, Dausgschies A, **Bangoura B** (2013) Long-term investigations on *Toxoplasma gondii*-infected primary chicken macrophages. Parasitol Res. 1129:3115-3122.
24. Pott S, Koethe M, **Bangoura B**, Zöllner B, Dausgschies A, Straubinger RK, Fehlhaber K, Ludewig M (2013) Effects of pH, sodium chloride, and curing salt on the infectivity of *Toxoplasma gondii* tissue cysts. J Food Prot. 76:1056-1061.
25. **Bangoura B**, Zöllner B, Koethe M, Ludewig M, Pott S, Fehlhaber K, Straubinger RK, Dausgschies A (2013) Experimental *Toxoplasma gondii* oocyst infections in turkeys (*Meleagris gallopavo*). Vet Parasitol. 196:272-277.
26. Lassen B, Lepik T, **Bangoura B** (2013) Persistence of *Eimeria bovis* in soil. Parasitol Res. 112:2481-2486.

27. Alnassan AA, Shehata AA, Kotsch M, Lendner M, Dauschies A, **Bangoura B** (2013) Embryonated chicken eggs as an alternative model for mixed *Clostridium perfringens* and *Eimeria tenella* infection in chickens. *Parasitol Res.* 112:2299-2306.
28. Zöller B, Koethe M, Ludewig M, Pott S, Dauschies A, Straubinger RK, Fehlhaber K, **Bangoura B** (2013) Tissue tropism of *Toxoplasma gondii* in turkeys (*Meleagris gallopavo*) after parenteral infection. *Parasitol Res.* 112:1841-1847.
29. Böttcher D, **Bangoura B**, Schmäscke R, Müller K, Fischer S, Vobis V, Meiler H, Wolf G, Koller A, Kramer S, Overhoff M, Gawlowska S, Schoon HA (2013) Diagnostics and epidemiology of alveolar echinococcosis in slaughtered pigs from large-scale husbandries in Germany. *Parasitol Res.* 112:629-636
30. Pott S, Koethe M, **Bangoura B**, Zöller B, Dauschies A, Straubinger RK, Fehlhaber K, Ludewig M (2012) Tenacity of *T. gondii* tissue cysts in fermented sausages - literature survey and own studies. *Archiv für Lebensmittelhygiene* 63:147-154
31. Kuhnert-Paul Y, **Bangoura B**, Dittmar K, Dauschies A, Schmäscke R (2012) Cryptosporidiosis: comparison of three diagnostic methods and effects of storage temperature on detectability of cryptosporidia in cattle faeces. *Parasitol Res.* 111:165-171
32. **Bangoura B**, Mundt HC, Schmäscke R, Westphal B, Dauschies A (2012) Prevalence of *Eimeria bovis* and *Eimeria zuernii* in German cattle herds and factors influencing oocyst excretion. *Parasitol Res.* 110:875-881
33. Kar S, Dauschies A, Cakmak A, Yilmazer N, Dittmar K, **Bangoura B** (2011) *Cryptosporidium parvum* oocyst viability and behaviour of the residual body during the excystation process. *Parasitol Res.* 109:1719-1723
34. Yilmazer N, Guven E, Kucuk SK, Dittmar K, **Bangoura B**, Kar S (2011) Could Vital Dyes be used to Determine the Degree of the Time Dependent Viability Changes in *Cryptosporidium parvum* Oocysts? *Kafkas Universitesi Veteriner Fakultesi Dergisi* 17:953-956
35. Koethe M, Pott S, Ludewig M, **Bangoura B**, Zoller B, Dauschies A, Tenter AM, Spekker K, Bittame A, Mercier C, Fehlhaber K, Straubinger RK (2011) Prevalence of specific IgG antibodies against *Toxoplasma gondii* in domestic turkeys determined by kinetic ELISA based on recombinant GRA7 and GRA8. *Vet Parasitol.* 180:179-190
36. Kar S, Gawlowska S, Dauschies A, **Bangoura B** (2011) Quantitative comparison of different purification and detection methods for *Cryptosporidium parvum* oocysts. *Vet Parasitol.* 177:366-370
37. Kar S, Dauschies A, **Bangoura B** (2010) Comparative efficacy of conventional primer sets in detection of *Cryptosporidium parvum* for diagnostic use. *Parasitol Res.* 106:683-687
38. Dittmar K, Mundt HC, Grzonka E, Dauschies A, **Bangoura B** (2010) Ovine coccidiosis in housed lambs in Saxony-Anhalt (Central Germany). *Berl Munch Tierarztl Wochenschr* 123:4957
39. Dittmar K, Mundt HC, Grzonka E, Dauschies A, **Bangoura B** (2009) Multicentric study on the efficacy of toltrazuril as metaphylactical treatment against naturally acquired coccidiosis in housed lambs. *Dtsch Tierarztl Wochenschr* 116:355-362
40. Mundt HC, Dittmar K, Dauschies A, Grzonka E, **Bangoura B** (2009) Study of the Comparative Efficacy of Toltrazuril and Diclazuril against Ovine Coccidiosis in Housed Lambs. *Parasitol Res.* 105:S141-S150

41. **Bangoura B**, Dauschies A, Fuerll A (2007) Influence of experimental *Eimeria zuernii* infection on clinical blood chemistry in calves. *Vet Parasitol.* 150:46-53
42. **Bangoura B**, Dauschies A (2007) Influence of experimental *Eimeria zuernii* infection in calves on electrolyte concentrations, acid-base balance and blood gases. *Parasitol Res.* 101:16371645
43. Mundt HC, Rödder F, Mengel H, **Bangoura B**, Ocak M, Dauschies A (2007) Control of coccidiosis due to *Eimeria bovis* and *Eimeria zuernii* in calves with toltrazuril under field conditions in comparison with diclazuril and untreated controls. *Parasitol Res.* 101:S93-S104
44. **Bangoura B**, Dauschies A (2007) Parasitological and clinical parameters of experimental *Eimeria zuernii* infection in calves and influence on weight gain and haemogram. *Parasitol Res.* 100:1331-1340
45. Mundt HC, **Bangoura B**, Rinke M, Rosenbruch M, Dauschies A (2005) Pathology and treatment of *Eimeria zuernii* coccidiosis in calves: Investigations in an infection model. *Parasitol Int.* 54:223-230

2. Scientific review articles

1. **Bangoura B** (2015) Cattle coccidiosis and its control. [German] *Prakt.Tierarzt* 96386-396.
2. Dauschies A, **Bangoura B**, Lendner M (2013) Inactivation of exogenous endoparasite stages by chemical disinfectants: current state and perspectives. *Parasitol Res.* 112(3):917-932.
3. **Bangoura B**, Dauschies A, Keidel J (2012) Unwelcome Coresidents. *Parasites in cattle – successful prophylaxis.* [German] *Prakt Tierarzt, special issue cattle farming:* 58-62
4. Dauschies A, **Bangoura B**, Lendner M (2012) Endoparasites in calves: Quo vadis? [German] *Tierärztliche Umschau* 5:159-164
5. Dauschies A, Lendner M, **Bangoura B** (2012) Familiar – not averted: The problem of poultry coccidiosis. [German] *RindSchweinSchaf* 1:10-14
6. **Bangoura B**, Zöller B, Dauschies A (2011) Prevalence and relevance of avian *Toxoplasma gondii* infections in Europe. [German] *Berl Munch Tierarztl Wochenschr* 124:485-496
7. **Bangoura B**, Keidel J, Dauschies A, Dyachenko V (2010) Muscle parasites in pigs and cattle, significant from meat hygienic point of view. [Hungarian] *Magyar Allatorvosok Lapja* 132:230236
8. Dyachenko V, Keidel J, Dauschies A, **Bangoura B** (2010) Protozoan diarrhea pathogens in swine. *Magyar Allatorvosok Lapja* [Hungarian] 132:457-460
9. **Bangoura B**, Keidel J, Dauschies A, Dyachenko V (2009) Muscle parasites in pigs and cattle, significant from meat hygienic point of view. [German] *Prakt Tierarzt* 90 (Suppl 2):10-17.
10. Dyachenko V, Keidel J, Dauschies A, **Bangoura B** (2009) Protozoan diarrhea pathogens in swine. [German] *Praktische Tierarzt* 90:18-23
11. Keidel J, **Bangoura B**, Dyachenko V, Dauschies A (2009) Meaning and combating of roundworm infection in swine. [German] *Praktische Tierarzt* 90:3-9

3. Book chapters

1. **Bangoura B**, Dausgchies A: Eimeria. In: Parasitic Protozoa of Farm Animals and Pets. Eds: Monica Florin-Christensen and Leonhard Schnittger, Springer Nature, ISBN 978-3-319-70131-8. In press.
2. **Bangoura B**, Dausgchies A: Toxoplasmosis and Cryptosporidiosis (chapter revisions). In: Anipedia – Infectious Diseases of Livestock. Ed: J A W Coetzer. Ebook, <http://www.anipedia.org>. Publication status: Cryptosporidiosis - published. Toxoplasmosis – accepted.

4. Further written publications

1. Geuthner AC, Etzold M, Koethe M, Pott S, Ludewig M, Dausgchies A, **Bangoura B** (2013) Experimental infection of broilers with *Toxoplasma gondii* under simulation of natural ways of infection. KompaktVET 6/2013:14.
2. **Bangoura B**, Keidel J, Dausgchies A (2007) Cattle coccidiosis. Prakt Tierarzt 88:3-5
3. Stöckel F, **Bangoura B**, John H, Kern A, Kuhnert Y, Seewald U, Schmäsckhe R (2009) Investigations into *Giardia* occurrence in hedgehogs. Igel Bulletin 41:5
4. Dausgchies A and **Bangoura B** (2006) Cattle coccidiosis hampers the development of calves. Kongressspiegel 1:8

5. Invited talks for continuing veterinary education

1. **Bangoura B**, Thabet A, Dausgchies A (2016) Control poultry coccidiosis effectively – thanks to a resistogram. 8. Leipziger Tierärztekongress, 14th to 16th January 2016, Leipzig, Germany. [German]
2. **Bangoura B**, Alnassan AA, Thabet A, Dausgchies A (2016) Necrotic enteritis – Disease and control options. And: In vitro assay for anticoccidial drug resistance. Invited lecture at VetMed Uni Vienna, 07. January 2016.
3. **Bangoura B** (2013) Efficacy of toltrazuril against necrotic enteritis due to coinfections with clostridia and coccidia. Workshop for poultry practitioners Geflügel-Tierärzte within the Bayer livestock academy, 09th to 10th December 2013, Celle, Germany. [German]
4. **Bangoura B** and Dausgchies A (2009) Toxoplasmosis – Transmission, relevance and control. Thüringer Referatenachmittag, Thüringer Landestierärztekammer, 04th November 2009, Jena, Germany. [German]

6. Contributions at scientific conferences

- contribution to 97 oral and poster presentations in 2005 through 2017