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Publication list

1. Scientific original papers with peer-review system

1. Delling C, Daugschies A, **Bangoura B**, Dengler F (2019) *Cryptosporidium parvum* alters glucose transport mechanisms in infected enterocytes. Parasitol Res. 118:3429–3441. doi: 10.1007/s00436-019-06471-y.

2. Geuthner AC, Koethe M, Ludewig M, Pott S, Schares G, Maksimov P, Daugschies A, **Bangoura B** (2019) Development of an *in vivo* model for *Toxoplasma gondii* infections in chickens and turkeys simulating natural routes of infection. Vet Parasitol. 276:108956. doi: 10.1016/j.vetpar.2019.108956.

3. Hiob L, Berndt A, Daugschies A, **Bangoura B** (2019) Host-pathogen interaction *in Toxoplasma gondii*-infected mixed chicken blood cell cultures. Parasitol Res. 118(5):1479-1491. doi: 10.1007/s00436-019-06265-2.

4. Thabet A, Schmäschke R, Fertey J, **Bangoura B**, Schönfelder J, Lendner M, Ulbert S, Daugschies A (2019) *Eimeria tenella* oocysts attenuated by low energy electron irradiation (LEEI) induce protection against challenge infection in chickens. Vet Parasitol. 266:18-26. doi: 10.1016/j.vetpar.2019.01.001.

5. Zhang R, Thabet A, Hiob L, Zheng W, Daugschies A, **Bangoura B** (2018) Mutual interactions of the apicomplexan parasites *Toxoplasma gondii* and *Eimeria tenella* with cultured poultry macrophages. Parasit Vectors. 11(1):453. doi: 10.1186/s13071-018-3040-0.

6. Schares G, Koethe M, **Bangoura B**, Geuthner AC, Randau F, Ludewig M, Maksimov P, Sens M, Bärwald A, Conraths FJ, Villena I, Aubert D, Opsteegh M, Van der Giessen J (2018) *Toxoplasma gondii* infections in chickens - performance of various antibody detection techniques in serum and meat juice relative to bioassay and DNA detection methods. Int J Parasitol. 48(9-10):751-762. doi: 10.1016/j.ijpara.2018.03.007.

7. 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.

8. Malkwitz I, Berndt A, Daugschies A, **Bangoura B** (2018) Characterisation of susceptibility of chicken macrophages to infection with *Toxoplasma gondii* of type II and III strains. Exp Parasitol. 187:22-29. doi: 10.1016/j.exppara.2018.03.003.

9. Hiob L, Koethe M, Schares G, Goroll T, Daugschies A, **Bangoura B** (2017) Experimental *Toxoplasma gondii* and *Eimeria tenella* co-infection in chickens. Parasitol Res. 2017 Nov;116(11):3189-3203.

10. 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.

11. Taha S, Elmalik K, **Bangoura B**, Lendner M, Mossaad E, Daugschies 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.

12. Thabet A, Schmidt J, Baumann S, Honscha W, von Bergen M, Daugschies 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.

13. Dyachenko V, Steinmann M, **Bangoura B**, Selzer M, Munderloh U, Daugschies A, Barutzki D (2017) Co-infection of *Trypanosoma pestanai* and *Anaplasma phagocytophilum* in a dog from Germany, Veterinary Parasitology: Regional Studies and Reports, doi:10.1016/j.vprsr.2017.06.001

14. Thabet A, Honscha W, Daugschies 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.

15. Thabet A, Zhang R, Alnassan AA, Daugschies A, **Bangoura B** (2017) Anticoccidial efficacy testing: In vitro *Eimeria tenella* assays as replacement for animal experiments. Vet Parasitol. 15;233:86-96.

16. Malkwitz I, Berndt A, Zhang R, Daugschies A, **Bangoura B** (2017) Replication of *Toxoplasma gondii* in chicken erythrocytes and thrombocytes compared to macrophages. Parasitol Res. 116(1):123-131.

17. 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.

18. Koethe M, Straubinger RK, Pott S, **Bangoura B**, Geuthner AC, Daugschies 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.

19. Alnassan AA, Thabet A, Daugschies A, **Bangoura B** (2015) In vitro efficacy of allicin on chicken *Eimeria tenella* sporozoites. Parasitol Res. 114:3913-3915.

20. 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.

21. Thabet A, Alnassan AA, Daugschies 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.

22. 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.

23. **Bangoura B**, Alnassan AA, Lendner M, Shehata AA, Krüger M, Daugschies A. (2014) Efficacy of an anticoccidial live vaccine in prevention of necrotic enteritis in chickens. Exp Parasitol. 145:125-134.

24. Geuthner AC, Koethe M, Ludewig M, Pott S, Schares G, Daugschies A, **Bangoura B** (2014) Persistence of *Toxoplasma gondii* tissue stages in poultry over a conventional fattening cycle. Parasitology. 141:1359-1364.

25. Alnassan AA, Kotsch M, Shehata AA, Krüger M, Daugschies A, **Bangoura B** (2014) Necrotic enteritis in chickens: development of a straightforward disease model system. Vet Rec. 174:555.

26. Hotop A, Buschtöns S, **Bangoura B**, Zöller 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.

27. Alnassan AA, Shehata AA, Kotsch M, Schrödl W, Krüger M, Daugschies A, **Bangoura B** (2013) Efficacy of early treatment with toltrazuril in prevention of coccidiosis and necrotic enteritis in chickens. Avian Pathol. 42:482-490.

28. Malkwitz I, Berndt A, Daugschies A, **Bangoura B** (2013) Long-term investigations on *Toxoplasma gondii*-infected primary chicken macrophages. Parasitol Res. 1129:3115-3122.

29. Pott S, Koethe M, **Bangoura B**, Zöller B, Daugschies 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.

30. **Bangoura B**, Zöller B, Koethe M, Ludewig M, Pott S, Fehlhaber K, Straubinger RK, Daugschies A (2013) Experimental *Toxoplasma gondii* oocyst infections in turkeys (*Meleagris gallopavo*). Vet Parasitol. 196:272-277.

31. Lassen B, Lepik T, **Bangoura B** (2013) Persistence of *Eimeria bovis* in soil. Parasitol Res. 112:2481-2486.

32. Alnassan AA, Shehata AA, Kotsch M, Lendner M, Daugschies 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.

33. Zöller B, Koethe M, Ludewig M, Pott S, Daugschies 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.

34. Böttcher D, **Bangoura B**, Schmäschke 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

35. Pott S, Koethe M, **Bangoura B**, Zöller B, Daugschies A, Straubinger RK, Fehlhaber K, Ludewig M (2012) Tenacity of *T. gondii* tissue cysts in fermented sausages - literature survey and own studies. Archiv fur Lebensmittelhygiene 63:147-154

36. Kuhnert-Paul Y, **Bangoura B**, Dittmar K, Daugschies A, Schmäschke 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

37. **Bangoura B**, Mundt HC, Schmäschke R, Westphal B, Daugschies A (2012) Prevalence of *Eimeria bovis* and *Eimeria zuernii* in German cattle herds and factors influencing oocyst excretion. Parasitol Res. 110:875-881

38. Kar S, Daugschies 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

39. 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

40. Koethe M, Pott S, Ludewig M, **Bangoura B**, Zoller B, Daugschies 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

41. Kar S, Gawlowska S, Daugschies A, **Bangoura B** (2011) Quantitative comparison of different purification and detection methods for *Cryptosporidium parvum* oocysts. Vet Parasitol. 177:366-370

42. Kar S, Daugschies A, **Bangoura B** (2010) Comparative efficacy of conventional primer sets in detection of *Cryptosporidium parvum* for diagnostic use. Parasitol Res. 106:683-687

43. Dittmar K, Mundt HC, Grzonka E, Daugschies A, **Bangoura B** (2010) Ovine coccidiosis in housed lambs in Saxony-Anhalt (Central Germany). Berl Munch Tierarztl Wochenschr 123:4957

44. Dittmar K, Mundt HC, Grzonka E, Daugschies 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

45. Mundt HC, Dittmar K, Daugschies 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

46. **Bangoura B**, Daugschies A, Fuerll A (2007) Influence of experimental *Eimeria zuernii* infection on clinical blood chemistry in calves. Vet Parasitol. 150:46-53

47. **Bangoura B**, Daugschies A (2007) Influence of experimental *Eimeria zuernii* infection in calves on electrolyte concentrations, acid-base balance and blood gases. Parasitol Res. 101:16371645

48. Mundt HC, Rödder F, Mengel H, **Bangoura B**, Ocak M, Daugschies 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

49. **Bangoura B**, Daugschies 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

50. Mundt HC, **Bangoura B**, Rinke M, Rosenbruch M, Daugschies 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, Bardsley KD (2020) Ruminant coccidiosis. Vet Clin North Am Food Anim Pract. 36(1):187-203. https://doi.org/10.1016/j.cvfa.2019.12.006.
2. Hatam-Nahavandi K, Ahmadpour E, Carmena D, Spotin A, **Bangoura B**, Xiao L (2019) *Cryptosporidium* infections in terrestrial ungulates with focus on livestock: a systematic review and meta-analysis. Parasit Vectors. 12(1):453. doi: 10.1186/s13071-019-3704-4.
3. Ahmadpour E, Ghanizadegan MA, Razavi A, Kangari M, Seyfi R, Shahdust M, Yazdanian A, Safarpour H, Bannazadeh Baghi H, Zarean M, Hosseini SA, Norouzi R, Ebrahimi M, **Bangoura B** (2019) *Strongyloides stercoralis* infection in human immunodeficiency virus-infected patients and related risk factors: A systematic review and meta-analysis. Transbound Emerg Dis. 66: 2233-2243. doi: 10.1111/tbed.13310.
4. Ivanova DL, Denton SL, Fettel KD, Sondgeroth KS, Munoz Gutierrez J, **Bangoura B**, Dunay IR, Gigley JP (2019) Innate Lymphoid Cells in Protection, Pathology, and Adaptive Immunity During Apicomplexan Infection. Front Immunol. 10:196. doi: 10.3389/fimmu.2019.00196.
5. Joachim A, Altreuther G, **Bangoura B**, Charles S, Daugschies 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.
6. **Bangoura B** (2015) Cattle coccidiosis and its control. [German] Prakt.Tierarzt 96386-396.
7. Daugschies A, **Bangoura B**, Lendner M (2013) Inactivation of exogenous endoparasite stages by chemical disinfectants: current state and perspectives. Parasitol Res. 112(3):917-932.
8. **Bangoura B**, Daugschies A, Keidel J (2012) Unwelcome Coresidents. Parasites in cattle – successful prophylaxis. [German] Prakt Tierarzt, special issue cattle farming: 58-62
9. Daugschies A, **Bangoura B**, Lendner M (2012) Endoparasites in calves: Quo vadis? [German] Tierärztliche Umschau 5:159-164
10. Daugschies A, Lendner M, **Bangoura B** (2012) Familiar – not averted: The problem of poultry coccidiosis. [German] RindSchweinSchaf 1:10-14
11. **Bangoura B**, Zöller B, Daugschies A (2011) Prevalence and relevance of avian *Toxoplasma gondii* infections in Europe. [German] Berl Munch Tierarztl Wochenschr 124:485-496
12. **Bangoura B**, Keidel J, Daugschies A, Dyachenko V (2010) Muscle parasites in pigs and cattle, significant from meat hygienic point of view. [Hungarian] Magyar Allatorvosok Lapja 132:230236
13. Dyachenko V, Keidel J, Daugschies A, **Bangoura B** (2010) Protozoan diarrhea pathogens in swine. Magyar Allatorvosok Lapja [Hungarian] 132:457-460
14. **Bangoura B**, Keidel J, Daugschies 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.
15. Dyachenko V, Keidel J, Daugschies A, **Bangoura B** (2009) Protozoan diarrhea pathogens in swine. [German] Praktische Tierarzt 90:18-23
16. Keidel J, **Bangoura B**, Dyachenko V, Daugschies A (2009) Meaning and combating of roundworm infection in swine. [German] Praktische Tierarzt 90:3-9

3. Book chapters

1. **Bangoura B**, Daugschies A: Coccidiosis in cattle. In: Coccidiosis in Livestock, Poultry, Companion Animals and Humans. CRC Press Taylor & Francis Group, Boca Raton, FL, USA. 2019, ISBN 9780367265922
2. **Bangoura B**, Daugschies A: Eimeria. In: Parasitic Protozoa of Farm Animals and Pets. Eds: Monica Florin-Christensen and Leonhard Schnittger, Springer International Publishing, 2018, ISBN 978-3-319-70131-8. DOI 10.1007/978-3-319-70132-5. pp. 55-101.
3. Dubey JP, **Bangoura B**, Daugschies A: Toxoplasmosis (chapter revision). In: Anipedia – Infectious Diseases of Livestock. Ed: J A W Coetzer. Ebook, http://www.anipedia.org.
4. **Bangoura B**, Daugschies A: Cryptosporidiosis (chapter revision). In: Anipedia – Infectious Diseases of Livestock. Ed: J A W Coetzer. Ebook, http://www.anipedia.org.

4. Further written publications

1. **Bangoura B**, McConnel C (2019) Beef: Revisiting roundworm management. WSU Veterinary Medicine Extension AG animal health, summer 2019:4-7.
2. **Bangoura B** (2019) Scientists investigate anticoccidial drug efficacy. Reflections, College of Agriculture and Natural Resources, University of Wyoming, 26-29.
3. Geuthner AC, Etzold M, Koethe M, Pott S, Ludewig M, Daugschies A, **Bangoura B** (2013) Experimental infection of broilers with *Toxoplasma gondii* under simulation of natural ways of infection. KompaktVET 6/2013:14.
4. **Bangoura B**, Keidel J, Daugschies A (2007) Cattle coccidiosis. Prakt Tierarzt 88:3-5
5. Stöckel F, **Bangoura B**, John H, Kern A, Kuhnert Y, Seewald U, Schmäschke R (2009) Investigations into *Giardia* occurrence in hedgehogs. Igel Bulletin 41:5
6. Daugschies A and **Bangoura B** (2006) Cattle coccidiosis hampers the development of calves. Kongressspiegel 1:8