



Publication list PD Dr. Angela Berndt May 2017

1. Pieper, J., Locke, M., Ruzaike, G., Voigt, St., Methner, U., **Berndt, A.** (2017) In vitro and in vivo generation of heterophil extracellular traps after *Salmonella* exposure. *Vet. Immunol. Immunopathol* 188, 1-11
2. Hesse, M., Stamm, A., **Berndt, A.**, Glünder, G., Weber, R. (2017) Immune response to *Salmonella* infections in vaccinated and non-vaccinated turkeys. *Res. Vet. Science* 115, 165-173
3. 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, 123-131
4. Polasky, Ch., Weigend, St., Schrader, L., **Berndt, A.** (2016) Non-specific activation of CD8 α -characterised $\gamma\delta$ T cells in PBL cultures of different chicken lines. *Vet. Immunol. Immunopathol.* 179, 1-7
5. Braukmann, M., Barrow, P.A., **Berndt, A.**, Methner, U. (2016) Combination of competitive exclusion and immunisation with a live *Salmonella* vaccine in newly hatched chickens: Immunological and microbiological effects. *Res. Vet. Science* 107, 34-41
6. Hesse, M., Stamm, M., Weber, Ch., **Berndt, A.** (2016) Immune response of turkey poults exposed at 1 day of age to either attenuated or wild *Salmonella* strains. *Vet. Immunol. Immunopathol.* 174, 1-10
7. Braukmann, M., Methner, U., **Berndt, A.** (2015) Avian CD25+ gamma/delta ($\gamma\delta$) T cells after *Salmonella* exposure. *Vet. Immunol. Immunopathol.* 168, 14-18
8. Prohl, A., Wolf, K., Weber, C., Müller, K. E., Menge, Ch., Sachse, K., Rödel, J., Reinhold, P., **Berndt, A.** (2015) Kinetics of local and systemic leucocyte and cytokine reaction of calves to intrabronchial infection with *Chlamydia psittaci*. *PLOS ONE | DOI:10.1371 / journal.pone.0135161*
9. Prohl, A., Lohr, M., Ostermann, C., Liebler-Tenorio, E., **Berndt, A.**, Schroedl, W., Rothe, M., Schubert, E., Sachse, K., Reinhold, P. (2015) Enrofloxacin and macrolides alone or in combination with rifampicin as antimicrobial treatment in a bovine model of acute *Chlamydia psittaci* infection. *PLoS One | doi:10.1371/journal.pone.0119736*
10. Braukmann, M., Methner, U., **Berndt, A.** (2015) Immune reaction and survivability of *Salmonella* Typhimurium and *Salmonella* Infantis after infection of primary avian macrophages. *PLoS One* 10(3), doi: 10.1371/journal.pone.0122540
11. Kalmar I., **Berndt A.**, Chiers, L., Sachse, K., Vanrompay, D. (2015) Host-pathogen interactions in specific pathogen-free chickens following aerogenous infection with *Chlamydia psittaci* and *Chlamydia abortus*. *Vet. Immunol. Immunopathol.* 164: 30-39
12. Prohl, A., Lohr, M., Ostermann, C., Liebler-Tenorio, E., **Berndt, A.**, Schroedl, W., Rothe, M., Schubert, E., Sachse, K., Reinhold, P. (2014) Evaluation of antimicrobial treatment in a bovine model of acute *Chlamydia psittaci* infection: tetracycline versus tetracycline plus rifampicin. *Pathog Dis.* 73(1), 1-12, doi: 10.1111/2049-632X.122012

13. Knittler, M. R., **Berndt, A.**, Böcker, S., Dutow, P., Hänel, F., Heuer, D., Kägebein, D., Klos, A., Koch, S., Liebler-Tenorio, E., Ostermann, C., Reinhold, P., Saluz, H. P., Schöfl, G., Sehnert, P., Sachse, K., (2014) Review *Chlamydia psittaci*: New insights into genomic diversity, clinical pathology, host-pathogen interaction and anti-bacterial immunity. Intern. J. Medical. 304(7), 877-893
14. Foster, N. and **A. Berndt.** (2013) Immunity to *Salmonella* in Farm Animals and Murine Models of Disease. In: Barrow, P.A. and U. Methner (eds.), *Salmonella* in Domestic Animals, 2nd Edition, CABI International 2013, ISBN: 978-1-84593-902-1, 547 p., p. 136-161
15. Malkwitz, I., **Berndt, A.**, Dauschies, A., Bangoura, B. (2013) Long-term investigation on *Toxoplasma gondii*-infected primary chicken macrophages. Parasitol. Res. 112(9), 3115-3122
16. Braukmann M., Sachse K., Jacobsen I.D., Westermann M., Menge C., Saluz H.P., **Berndt A.** (2012) Distinct intensity of host-pathogen interactions in *Chlamydia psittaci*- and *Chlamydia abortus*-infected chicken embryos. Infect Immun. 80 (9):2976-2988
17. Reinhold, P., Ostermann, C., Liebler-Tenorio, E., **Berndt, A.**, Vogel, A., Lambertz, J., Rothe, M., Rüttger, A., Schubert, E., Sachse, K. (2012) A bovine model of respiratory *Chlamydia psittaci* infection: challenge dose titration. PLoS One 7(1):e30125
18. Foster, N., **Berndt, A.**, Lalmanach, A.-C., Methner, U., Pasquali, P., Rychlik, I., Velge, P., Zhou, X., Barrow, P. (2011) Emergency and therapeutic vaccination - is stimulating innate immunity an option? Research in Veterinary Science, Res Vet Sci. 93(1):7-12
19. Methner, U., A. Haase, **A. Berndt**, G. Martin, B. Nagy, P.A. Barrow, (2011) Exploitation of intestinal colonization-inhibition between *Salmonella* organisms for live vaccines in poultry - potential and limitations. Zoonoses Public Health, 58, 540-548
20. Jacobsen ID, K. Große, **A. Berndt**, B. Hube, (2011). Pathogenesis of *Candida albicans* Infections in the Alternative Chorio-Allantoic Membrane Chicken Embryo Model Resembles Systemic Murine Infections. PLoS One 6(5): e19741.
21. Methner, U., Barrow, P., **Berndt, A.**, Rychlik, I. (2011) *Salmonella* Enteritidis with double deletion in *phoP/fliC-A* potential live *Salmonella* vaccine candidate with novel characteristics for use in chickens. Vaccine 29, 3248-3253.
22. Pieper J., Methner U., **Berndt A.** (2011) Characterization of avian gamma/delta T-cell subsets after *Salmonella* Typhimurium infection of chicks. Infect Immun 79, 822-829
23. Richter P, Umbreit C, Franz M, **Berndt A**, Grimm S, Uecker A, Böhmer FD, Kosmehl H, Berndt A. (2011) EGF/TGFbeta1 co-stimulation of oral squamous cell carcinoma cells causes an epithelial-mesenchymal transition cell phenotype expressing laminin 332. J Oral Pathol 40, 46-54
24. Methner, U., Barrow, P.A., **Berndt, A.** (2010) Induction of a homologous invasion-inhibition effect after administration of *Salmonella* strains to newly hatched chicks. Vaccine 28, 6958-6963
25. Berndt A, Köllner R, Richter P, Franz M, Voigt A, **Berndt A**, Borsi L, Giavazzi R, Neri D, Kosmehl H. (2010). A comparative analysis of oncofetal fibronectin and tenascin-C incorporation in tumour vessels using human recombinant SIP format antibodies. Histochem Cell Biol 133, 467-75.
26. Jacobsen, I.D., Große, K., Slesiona, S., Hube, B., **Berndt, A.**, Brock, M., (2010) Embryonated eggs as an alternative infection Model to investigate *Aspergillus fumigatus* Virulence. Infect Immun 78, 2995-3006
27. Franz, M., Spiegel, K., Umbreit, C., Richter, P., Codina-Canet, C., **Berndt, A.**, Altendorf-Hofmann, A., Koscielny, S., Hyckel, P., Kosmehl, H., Virtanen, I., Berndt, A. (2009)

- Expression of Snail is associated with myofibroblast phenotype development in oral squamous cell carcinoma. *Histochem. Cell Biol* 131, 651-660
28. Laroucau, K., Vorimore, F., Aaziz, R., **Berndt, A.**, Schubert, E., Sachse, K. (2009) Isolation of a new chlamydial agent from infected domestic poultry coincided with cases of atypical pneumonia among slaughterhouse workers in France. *Infect Genet Evol* 9, 1240-1247
 29. **Berndt, A.**, Müller, J., Borsi, L., Kosmehl, H., Methner, U., Berndt, A., (2009) Reorganisation of the caecal extracellular matrix upon *Salmonella* infection - Relation between bacterial invasiveness and expression of virulence genes. *Vet Microbiol* 133, 123-137
 30. Pieper, J., Methner, U., **Berndt, A.** (2008) Heterogeneity of avian gamma delta T cells. *Vet Immunol Immunopathol* 124, 241-252
 31. Reinhold, P., Kirschvink, N., Teegarten, D., **Berndt, A.**, (2008) An experimentally induced *Chlamydia suis* infection in pigs results in severe lung function disorders and pulmonary inflammation. *Vet Res* 39,35-54
 32. González-Carvajal, B., Methner, U., Pieper, J., **Berndt, A.**, (2008) Effects of *Salmonella enterica* serovar Enteritidis on cellular recruitment and cytokine gene expression in caecum of vaccinated chickens. *Vaccine* 26, 5423-5433
 33. Grahner, A., Richter, S., Siegert, F., **Berndt, A.**, Hauschildt, S. (2008) The ortholog of the „acatalytic“ mammalian ART4 in chicken is an arginine-specific mono-ADP-ribosyltransferase. *BMC Mol Biol* 8, 86-101
 34. Richter, P., Junker, K., Franz, M., **Berndt, A.**, Geyer, C., Gajda, M., Kosmehl, H., Berndt, A., Wunderlich, H. (2008) IIICS de novo glycosylated fibronectin as a marker for invasiveness in rothelial carcinoma of the urinary bladder. *J. Cancer Res Clin Oncol* 134, 1059-1065
 35. Borrmann, E., **Berndt, A.**, Hänel, I., Köhler, H., (2007) *Campylobacter-jejuni* induced interleukin-8 release by human intestinal epithelial cells and primary intestinal chick cells. *Vet Microbiol* 124, 115-124
 36. Reinhold, P., Jaeger, J., Liebler-Tenorio, E., **Berndt, A.**, Bachmann, R., Schubert, E., Melzer, F., Elschner, M., Sachse, K. (2007) Impact of latent infections with *Chlamydophila* species in young cattle. *Vet J* 175, 202-211
 37. Walder, G., Gritsch, W., Wiedermann, C.J., Polzl, G., Laufer, G., Hotzel, H., **Berndt, A.**, Pankuweit, S., Theegarten, D., Anhenn, O., Oehme, A., Dierich, M.P., Wurzner, R. (2007) Co-infection with two *Chlamydophila* species in a case of fulminant myocarditis. *Crit Care Med* 35, 623-626
 38. **Berndt, A.**, Wilhelm, A., Jugert, C., Pieper, J., Sachse, K., Methner U., (2007) Chicken cecum immune response to *Salmonella enterica* serovars of different levels of invasiveness. *Infect Immun* 75, 5993-6007
 39. **Berndt, A.**, Pieper, J., Methner, U., (2006) Circulating $\gamma\delta$ T cells in response to *Salmonella enterica* Serovar Enteritidis exposure in chickens. *Infect Immun* 74: 3967-3978
 40. Kauffold, J., Melzer, F., **Berndt, A.**, Hoffmann, G., Hotzel, H., Sachse, K., (2006) Chlamydiae in oviduct and uteri of repeat breeder pigs. *Theriogenology* 66: 1816-1823
 41. **Berndt, A.**, Methner, U. (2004) B cell and macrophage response in chicks after oral administration of *Salmonella typhimurium* strains. *Comp Immunol Microbiol Infect Dis* 27, 235-246
 42. **Berndt, A.**, Methner, U., Krasnikov G.A., Shutchenko P.A. (2004) Studying of chicken immune cell subpopulations after infection with *Salmonella* Enteritidides and inoculation with attenuated vaccine. *Ukr Vet Med* 84, 94-99

43. Hotzel, H., **Berndt, A.**, Melzer, F., Sachse, K. (2004) Occurrence of Chlamydiaceae spp. in a wild boar (*Sus scrofa* L.) population in Thuringia (Germany). *Vet Microbiol* 103, 121-126
44. Sachse, K., Grossmann, E., **Berndt, A.**, Schütt, Ch., Henning, K., Theegarten, D., Anhenn, O., Reinhold, P. (2004). Respiratory chlamydial infection based on experimental aerosol challenge of pigs with *Chlamydia suis*. *Comp. Immun. Microbiol. Inf Dis* 27: 7-23
45. Müller, G., Köhler, H., Diller, R., Rassbach, A., **Berndt, A.**, Schimmel, D. (2003) Influence of naturally occurring and experimentally induced porcine pneumonia on blood parameters. *Res Vet Sci* 74, 23-30
46. Hänel, I., Elschner, M., **Berndt, A.**, Otto, P. (2002) Investigation of coinfection of rotavirus and *Campylobacter jejuni* using Caco-2 cells. *DTW* 109, 167-170
47. Müller, G., Steinbach, G., **Berndt, A.**, Köhler, H. (2002) Effects of various applications of lipopolysaccharides on blood parameters of pigs. *J Vet Med B, Infect Dis Vet Public Health* 49, 429-437
48. Müller, G., Kielstein, P., Rosner, H., Köhler, H., **Berndt, A.**, Heller, M. (2002) Do mycotoxins impair immune and defense reactions in pigs? *Magyar Állatorvosok Lapja* 124, 466-472
49. **Berndt, A.**, Heller, M., Kosmehl, H. (2002) Cytokine mRNA expression in experimental porcine pneumonia. *DTW* 109, 205-209
50. **Berndt, A.**, Methner, U. (2001) Gamma / delta T cell response of chickens after oral administration of attenuated and non-attenuated *Salmonella typhimurium* strains. *Vet Immunol Immunopathol* 78, 143-161
51. **Berndt, A.** (2001) Mikroskopische Verfahren zum Nachweis von Chlamydien in Geweben und Zellkulturen. *Augenspiegel* 4, 48-55
52. Methner, U., **Berndt, A.**, Steinbach, G. (2001) Combination of competitive exclusion and immunization with an attenuated live *Salmonella* vaccine strain in chickens. *Avian Dis* 45, 631-638
53. Schleier, P., Berndt, A., **Berndt, A.**, Dahse, R., Zenk, W., Hyckel, P., Kosmehl, H. (2001) Experimentelle 5-Aminolävulinsäure - induzierte Photodynamische Therapie (ALA-PDT) oraler Karzinome: Verfahren zur Behandlung solider Tumoren und Aufklärung des Zelltodes. *Mund Kiefer Gesichts Chir* 5, 98-104
54. **Berndt, A.**, Methner, U. (2000) Untersuchungen zur T-Zell-Immunantwort von Hühnerküken nach oraler Applikation von *Salmonella*-Impf- und Wildstämmen. *Bundesgesundheitsblatt* 43, 64-76
55. Schleier, P., Berndt, A., **Berndt, A.**, Gottschild, D., Zenk, W. Kosmehl, H., Hyckel, P., (2000) Experimentelle photodynamische Therapie oraler Plattenepithelkarzinome induziert Nekrose und nicht Apoptose. *Deutsche Zahnärztliche Zeitschrift*, 14-18
56. **Berndt, A.**, Heller, M., Methner, U., Kosmehl, H., Müller, G. (2000) Monoclonal antibodies against porcine macrophages. *Vet. Immunol. Immunopathol.* 74, 153-177.
57. Müller, G., Kielstein, P., Rosner, H., Köhler, H., **Berndt, A.**, Heller, M. (2000) Beeinflussen Mykotoxine die Immun- und Abwehrreaktionen des Schweines? *Der praktische Tierarzt* 81, 932-940
58. Methner, U., Barrow, P.A., **Berndt, A.**, Steinbach, G. (1999) Combination of vaccination and competitive exclusion to prevent *Salmonella* colonization in chickens: experimental studies. *Intern J Food Microbiol* 49, 35-42
59. Müller, G., Kielstein, P., Rosner, H., **Berndt, A.**, Heller, M., Köhler, H. (1999) Studies on the influence of combined administration of ochratoxin A, fumonisin B1, deoxynivalenol and T2 toxin on immune and defence reactions in weaner pigs. *Mycoses* 42, 485-493

60. Müller, G., Kielstein, P., Rosner, H., **Berndt, A.**, Heller, M., Köhler, H. (1999) Studies on the influence of ochratoxin A on immune and defence reactions in weaners. *Mycoses* 42, 495-505
61. Beyer, J., Fichtner, D., Schirrmeier, H., Granzow, H., Polster, U., Weiland, E., **Berndt, A.**, Wege, H., (1998) Arterivirus PRRSV: Experimental studies on the pathogenesis of respiratory disease. *Adv Exp Med Biol* 440, 593-599
62. **Berndt, A.**, Köhler, H. (1997) LPS receptor expression and LPS binding capacity of porcine monocytes and macrophages. *BMTW* 110, 381-385
63. **Berndt, A.** (1997) Interleukine production in the lung of *Pasteurella multocida* infected pigs. *TU* 52, 734-740
64. **Berndt, A.**, Müller, G. (1996) Heterogeneity of porcine alveolar macrophages in experimental pneumonia. *Vet Immunol Immunopathol* 57, 279-287
65. **Berndt, A.**, Müller, G. (1995) Occurrence of T lymphocytes in perivascular regions of the lung after intratracheal infection of swine with *Pasteurella multocida*. *Vet Immunol Immunopathol* 49, 143-159
66. Müller, G., Kielstein, P., Köhler, H., **Berndt, A.**, Rosner, H. (1995) Studies of the influence of ochratoxin A on immune and defence reactions in the mouse model. *Mycoses* 38, 85-91