

## Publications

1. van Ginkel, F.W., C-J. Liu, J.W. Simecka, J-Y. Dong, T. Greenway, R.A. Frizzell, H. Kiyono, J.R. McGhee, and D.W. Pascual. 1995. Intratracheal gene delivery with adenoviral vector induces elevated systemic IgG and mucosal IgA antibodies to adenovirus and B-galactosidase. *Human Gene Therapy* 6: 895-903.
2. van Ginkel, F.W., and D.W. Pascual. 1996 Recognition of neurokinin 1 receptor (NK1-R): an antibody to a peptide sequence from the third extracellular region binds to brain NK1-R. *J. Neuroimmunol.* 67: 49-58.
3. van Ginkel, F.W., H. Kiyono and J.R. McGhee. 1997. Human papillomavirus and mucosal immunity in the female reproductive tract. *Papillomavirus Report* 8: 1-10.
4. van Ginkel, F.W., J.R. McGhee, C-J. Liu, J.L. Simecka, R.A. Frizzell, E.J. Sorscher, H. Kiyono, and D.W. Pascual. 1997. Segregation of CD4 T helper cell responses to Ad5 vector and transgene. *J. Immunol.* 159: 685-693.
5. Yamamoto, S., H. Kiyono, M. Yamamoto, I. Imaoka, M. Yamamoto, K. Fujihashi, Y. Takeda, F.W. van Ginkel, and J.R. McGhee. 1997. A nontoxic mutant of cholera toxin enhances mucosal immunity. *Proc. Natl. Acad. Sci. USA.* 94: 5267-5272.
6. van Ginkel, F.W., Jackson, R.J., Yuki, Y., and McGhee, J.R.. 2000. The mucosal adjuvant cholera toxin redirects vaccine proteins into olfactory tissues. *J. Immunol. Cutting Edge* 165: 4778-4782.
7. Nguyen, H.H, F.W. van Ginkel, H.L. Vu, M.J. Novak, H. Kiyono, J.R. McGhee, and J. Mestecky. 2000. Gamma interferon is not required for mucosal cytotoxic T lymphocyte responses of heterosubtypic immunity to influenza A virus infection in mice. *J. Virol.* 74: 5495-5501.
8. Nguyen, H.H., F.W. van Ginkel, H.L. Vu, J.R. McGhee, and J. Mestecky. 2001. Heterosubtypic immunity to lethal influenza A virus infection requires B cells but not cytotoxic T lymphocytes (CTL). *J. Infect. Dis.* 183: 368-376.
9. van Ginkel, F.W., McGhee, J.R., Thomas, O., Campos-Torres, A., and Briles, D.E. 2003. Pneumococcal carriage results in ganglioside-mediated olfactory tissue infection. *Proc. Natl. Acad. Sci. (USA)*. 100: 14363-14367.
10. Szalai, A.J., Weaver, C.W., McCrory, M.A., van Ginkel, F.W., Reiman, R.M., Kearney, J.F., Marion, T.N., and Volanakis, J.E. 2003. Lupus is delayed in (NZBxNZW) F1 mice expressing human C-reactive protein. *Arthritis Rheum.* 48:1602-1611.
11. van Ginkel, F.W., Jackson, R.J., Vu, H.L., Yoshino, N., Hagiwara, Y., Metzger, Fujihashi, K., D.J., Connell, T.D., Martin, M., and McGhee, J.R. 2005. Enterotoxin-based mucosal adjuvants alter antigen trafficking and induce inflammatory responses in the nasal tract. *Infect. Immun.* 73:6892-6902.
12. Duverger, A, Jackson, RJ, van Ginkel, FW, Fischer, R, Tafaro, A, Leppla, SH, Fujihashi, K, Kiyono, H, McGhee, JR, Boyaka, PN. 2006. *Bacillus anthracis Edema Toxin Acts as an Adjuvant for Mucosal Immune Responses to Nasally Administered Vaccine Antigens.* *J. Immunol.* 176:1776-1783.

13. Joiner, K. S., Hoerr, F. J., Ewald, S. J. , van Santen, V. L., Wright, J. C., van Ginkel, F.W., and Toro, H. 2007. Pathogenesis of infectious bronchitis virus in vaccinated chickens of two different MHC B complex genotypes. *Avian Dis.* 51: 758-763.
14. J. Shi, Aono, S, Lu, W., Ouellette, A.J., Hu, X., Ji, Y., Wang, L., Lenz, S., van Ginkel, F.W., Liles, M., Dykstra, C., Morrison, E.E., and Elson, C.O. 2007. A novel role for defensins in intestinal homeostasis: regulation of IL-1 $\beta$  secretion. *J. Immunol.* 179: 1245-1253.
15. van Ginkel, F.W., Iwamoto, T., Schultz, B.D., and Tomich, J.M. 2008. Immunity to a Self-derived, Channel-Forming Peptide in the Respiratory Tract. *Clin. Vaccine Immunol.* 15: 260-266.
16. van Ginkel, F.W., van Santen, V. L., Gulley, S.L., Toro, H. 2008. Infectious bronchitis virus in the chicken Harderian gland and lachrymal fluid: viral load, infectivity, immune cell responses, and effects of viral immunodeficiency. *Avian Dis.* 52: 608-617.
17. Wang, C., van Ginkel, F.W., Kim, T., Li, D., Li, Y., Dennis, J.C., and Kaltenboeck, B. 2008. Temporal delay of peak T-cell immunity determines Chlamydia pulmonary disease in mice. *Infect. Immun.* 49: 13-23.
18. Niemeyer, G.P., Herzon, R.W., Mount, J.D., Arruda, V.R., Tillson, M., Hathcock, J.T., van Ginkel, F.W., High, K.A. and Lothrop, C.D. 2009. Long Term Correction of Inhibitor Prone Hemophilia B Dogs Treated with Liver-Directed AAV2 Mediated Factor IX Gene Therapy. *Blood* 113: 797-806.
19. Wang, L., Shi, J., van Ginkel, F.W., Lan, L., Niemeyer, G., Martin, D.R., Snyder, E.Y., and Cox, N.R. 2009. Neural progenitor cells modulate T lymphocytes through nitric oxide and prostaglandin E2. *Exp. Neurol.* 216: 177-183.
20. van Ginkel, F.W., H. Toro, D.C. Tang, and S.L. Gulley. 2009. Induction of Mucosal Immunity in the Avian Harderian Gland with a Replication-Deficient Ad5 vector Expressing Avian Influenza H5. *Dev. Comp. Immunol.* 33: 28-34.
21. Toro, H, F.W. van Ginkel, D.C. Tang, B. Schemera, S. Rodning, and J. Newton. 2010. Avian Influenza Vaccination in Chickens and Pigs with RCA-free Human Recombinant Adenovirus 5. *Avian Dis.* 54: 224-231.
22. Bird, R.C., P. DeInnocentes, A.E. Church Bird, F.W. van Ginkel, and B.F. Smith. 2011. Autologous dendritic cell-canine mammary tumor hybrid fusion vaccine. *Cancer Immunol. Immunother.* 60: 87-97.
23. Shawn, A., F.W. van Ginkel, K.S. Macklin, and J.P. Blake. 2011. Effects of phytase supplementation in broiler diets on a natural *Eimeria* challenge in naïve and vaccinated birds. *Poultry Sci.* 90:781-790.
24. Breedlove, C., J.K. Minc, D.C. Tang, V.L. van Santen, F.W. van Ginkel, and H. Toro. 2011. Avian influenza adenovirus-vectored *in ovo* vaccination: target embryo tissues and combination with Marek's disease vaccine. *Avian Dis.* 55:667-73.
25. van Ginkel, F.W., S.L. Gulley, A. Lammers, and H. Toro. 2012. Conjunctiva-associated lymphoid tissue in avian ocular immunity. *Dev. Comp. Immunol.* 36: 289-297.

26. Toro, H., D. Pennington, R.A. Gallardo, V.L. van Santen, F.W. van Ginkel, J.F. Zhang, and K.S. Joiner. 2012. Infectious bronchitis virus subpopulations in vaccinated chickens after challenge. *Avian Dis.* 56:501-508.
27. Ndegwa, E.N., K.S. Joiner, H. Toro, F.W. van Ginkel, and V.L. van Santen. 2012. Significance of differences in proportions of specific minor viral subpopulations within Ark-type infectious bronchitis vaccines. *Avian Dis.* 56:642-653.
28. Gurjar, R.S., S. L. Gulley, and F.W. van Ginkel. 2013. Cell-mediated immune responses in the head-associated lymphoid tissues induced to a live attenuated avian coronavirus vaccine. *Dev. Comp. Immunol.* 41:715-722, 2013
29. Toro, H., J.F. Zhang, R.A. Gallardo, V.L. van Santen, F.W. van Ginkel, K.S. Joiner, C. Breedlove. 2013. S1 of Distinct IBV Population Expressed from Recombinant Adenovirus Confers Protection against Challenge. *Avian Dis.* 58:211-215.
30. Orr-Burks, N., S.L. Gulley, H. Toro, R. Gallardo, and F.W. van Ginkel. 2014. Mucosal and Systemic Immune Responses to Infectious Bronchitis Virus after Ocular Vaccination. *Avian Dis.* 58:279-286.