PUBLICATIONS OF INTEREST

The list below includes those cited in the "NEWS" section as well as other peer-reviewed articles and reviews deemed to be of interest in veterinary and comparative immunology.

Peer-reviewed

Fach, S.J., D.K. Meyerholz, J.M. Gallup, M.R., Ackermann, H.D. Lehmkuhl and R.E. Sacco 2007 **Neonatal ovine pulmonary dendritic cells support bovine respiratory syncytial virus replication with enhanced interleukin (IL) 4 and IL-10 gene transcripts**. *Viral Immunology* **20:** 119-130.

Rogers, C S., D.A. Stoltz, D.K. Meyerholz, L.S. Ostedgaard, T. Rokhlina, P.J. Taft, M.P. Rogan, A.A. Pezzulo, P.H. Karp, O.A. Itani A.C. Kabel, C.L. Wohlford-Lenane , G.J. Davis, R.A. Hanfland, T.L. Smith, M. Samuel, D. Wax, C.N. Murphy, A. Rieke, K. Whitworth, A. Uc, T.D. Sterner, K.A. Brogden, J. Shilyansky, P.B. McCray, J. Zabner, R.S. Prather and M.J. Welsch 2008. **Disruption of the CFTR gene produces a model of cystic fibrosis in newborn pigs**. *Science* **321**: 1837-1841

Butler, J.E., Wertz N. Deschacht N, Kacskovics I. 2008 **Porcine IgG: Structure, genetics and evolution.** *Immunogenetics* **61**:209-230.

Nielsen, K., P. Smith, W.L. Yu, C. Elmgren, G. Halbert, P. Nicoletti, B. Perez, S. Conde, L. Samartino, A. Nicola, R. Bermudez and T. Renteria. 2008 **Validation of a second generation competitive enzyme immunoassay (CELISA) for the diagnosis of brucellosis in various species of domestic animals.** *Vet. Immunol. Immunopath*. **125**: 246-250.

Molina, R.M., S.H. Cha, W. Chittick, S. Lawson, M.P. Murtaugh, E.A. Nelson, J. Christopher-Hennings, K.J. Yoon, R. Evans, RR. Rowlands and J.J. Zimmerman. 2008 **Immune response against porcine reproductive and respiratory syndrome virus during acute and chronic infection.** *Vet. Immunol. Immunopath.* **126**:283-292.

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Butler, J.E., P. Weber, N. Wertz and K.M. Lager 2008 **Porcine reproductive and respiratory syndrome virus (PRRSV) subverts development of adaptive immunity by proliferation of germline-encoded B cells with hydrophobic HCDR3s** *J. Immunol*. **180:** 2347-2356

Mendicino, M., J. Ramsoondar, C. Phelps, T. Vaught, S. Ball, Y. Dai, T. LeRoith, J. Monahan, S.Chen, A.K. Dandro, J. Boone, P. Jobst, A. Vance, N. Wertz, I. Polejaeva , J.E. Butler, D. Ayares and K. Wells K. 2009 **Targeted disruption of the porcine immunoglobulin heavy chain locus produces a B cell null phenotype**. *Nature Biotechnology* (pending)

Kuroiwa, Y., P. Kasinathan, T. Sathiyaseelan, J.A. Jiao, H. Matsushita, J. Sathiyaseelan, H. Wu, J. Mellquist, M. Hammitt, J. Koster, S. Kamoda, K. Tachibana, I. Ishida and J.M. Robl 2009 **Antigen-specific human polyclonal antibodies from hyperimmunized cattle**. *Naure Biotechnology* **27**:173-181.

Blehert, D.S., A.C. Hicks, M. Behr, C.U. Meteyer, B.M. Berlowski-Zier, E.L. Buckles, J.T. Coleman, S.R. Darling, A. Gargas, R. Niver, J.C. Okoniewski, R.J. Rudd and W.B. Stone**.** 2009 **Bat white-nose syndrome: and emerging fungal pathogen?** *Science* **323**:227

Kaushik, A.K., Kehrli M.E. Jr, A. Kurtz, S. Ng, M. Koti, F. Shojaei and S.S. Saini 2009. **Somatic hypermutations and isotype restricted exceptionally long CDR3H contribute to antibody diversification in cattle**. V*et. Immunol. Immunopath*. **127**:106-113.

Useful Reviews

"The porcine immune system"

The latest contribution to basic veterinary immunology is Vol. 33 of Developmental and Comparative Immunology (2009) edited by Artur Summerfield. The volume is a collection of thirteen mini-reviews covering the gauntlet of swine immunology. It should serve students, investigators and veterinarians as a valuable reference for some time to come.

"The piglet as a model for immune system development"

Volume 128 of Veterinary Immunology and Immunopathology (2009) contains a lengthy review (pp147-170) by > 20 contributors that details the history and methods used for the development of various piglet models used in studies on developmental immunology. These models have provided valuable data that have helped to define: (a) the process of maternal to fetal/neonatal passive immunity, (b) the role of bacterial colonization and PAMPs in the development of immunocompetence, (c) the direct impact of viral infection on the neonatal immune system and (d) the development of the T and B cell repertoire during fetal life.

" Advances in swine biomedical model genomics"

This review by Joan Lunney in Volume 3 of the International Journal of Biological Sciences (pp 179-184; 2007) summarizes large numbers of swine research models. This should be a valuable guide to workers in the veterinary as well as human medical fields.http://www.pubmedcentral.nih.gov/articlerender.fdgi?tool+ubmed&pubmedid+17384736.

"Mucosal immunology in domestic animals"

A special issue of Veterinary Research (Vol. 37: 255-540; 2006) edited by K. Haverson, B. Charley and M. Bailey is comprised of 15 chapters that cover topics ranging from structure of the immune system of veterinary species, reviews on innate and adaptive immunity to practical considerations in mucosal immunizations.