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**Department Of Homeland Security
Plum Island Animal Disease Center
Research Publications
2008-2011**

2008

Balinsky, C.A., Delhon, G., Smoliga, G., Prarat, M., French, R.A., Geary, S.J., Rock, D.L., Rodriguez, L.L.

Rapid preclinical detection of sheeppox virus by a real-time PCR assay.

(2008) *Journal of Clinical Microbiology*, 46 (2), pp. 438-442.

DOCUMENT TYPE: Article

Borca M.V., Gudmundsdottir I, Fernandez-Sainz I.J, Holinka L.G., Risatti G.R.
Patterns of cellular gene expression in swine macrophages infected with highly virulent classical swine fever virus strain Brescia.

(2008) *Virus Research*, December 2008, 138 (1-2), pp. 89-96.

DOCUMENT TYPE: Article

Chaudhury, M.F., Ward, G.B., Skoda, S.R., Deng, M.Y., Welch, J.B., McKenna, T.S.
Screwworms, *Cochliomyia hominivorax*, reared for mass release do not carry and spread foot-and-mouth disease virus and classical swine fever virus.

(2008) *Journal of Insect Science*, 8, article 62.

DOCUMENT TYPE: Article

Fosgate, G.T., Tavoranpanich, S., Hunter, D., Pugh, R., Sterle, J.A., Schumann, K.R., Eberling, A.J., Beckham, T.R., Martin, B.M., Clarke, N.P., Adams, L.G.
Diagnostic specificity of a real-time RT-PCR in cattle for foot-and-mouth disease and swine for foot-and-mouth disease and classical swine fever based on non-invasive specimen collection.

(2008) *Veterinary Microbiology*, 2008 Nov 25, 132 (1-2), pp.158-164.

DOCUMENT TYPE: Short Communication

Fowler, V.L., Paton, D.J., Rieder, E., Barnett, P.V.
Chimeric foot-and-mouth disease viruses: evaluation of their efficacy as potential marker vaccines in cattle.

(2008) *Vaccine*, 26, pp. 1982-1989.

DOCUMENT TYPE: Article

Golde, W.T., Nfon, C.K., Toka, F.N.
Immune evasion during foot-and-mouth disease virus (FMDV) infection of swine.

(2008) *Immunological Reviews*, 225, pp. 85-95.

DOCUMENT TYPE: Article

Grubman, M.J., Moraes, M.P., Diaz-San Segundo, F., Pena, L., De Los Santos, T.
Evading the host immune response: How foot-and-mouth disease virus has become an effective pathogen.

(2008) *FEMS Immunology and Medical Microbiology*, 53 (1), pp. 8-17.

DOCUMENT TYPE: Short Survey

Hollister JR, Vagnozzi A, Knowles NJ, Rieder E.
Molecular and phylogenetic analyses of bovine rhinovirus type 2 shows it is closely related to foot-and-mouth disease virus.

(2008) *Virology*, 2008 Apr 10;373(2): 411-25.

DOCUMENT TYPE: Article

Lin, G., Zhipeng, C., Junfeng W., Xiu-Feng, W., Xu, L., Goebel, R.
Identifying a few foot-and-mouth disease virus signature nucleotide strings for
computational genotyping.
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Nfon, C.K., Ferman, G.S., Toka, F.N., Gregg, D.A., Golde, W.T.
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DOCUMENT TYPE: Article

Nfon, C.K., Dawson, H., Toka, F.N., Golde, W.T.
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DOCUMENT TYPE: Article

O'Donnell, V.O., LaRocco, M., Baxt, B.
Heparan sulfate-binding Foot-and-Mouth Disease Virus enters cells via caveolae-mediated
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Document Type: Article

Oem, J.K., Yeh, M.T., McKenna, T.S., Hayes, J.R., Rieder, E., Giuffre, A.C., Robida,
J.M., Lee, K.N., Cho, I.S., Fang, X., Joo, Y.S., Park, J.H.
Pathogenic Characteristics of the Korean 2002 Isolate of Foot-and-Mouth Disease Virus
Serotype O in pigs and cattle.
(2008) Journal of Comparative Pathology, 138 (4), pp. 204-214.
DOCUMENT TYPE: Article

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Early events in the pathogenesis of foot-and-mouth disease in cattle after controlled
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Patch JR, Han Z, McCarthy SE, Yan L, Wang L-F, Harty RN, Broder CC.
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DOCUMENT TYPE: Article

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DOCUMENT TYPE: Article

Pena L, Moraes MP, Koster M, Burrage T, Pacheco JM, San Segundo FD, Grubman MJ.
Delivery of a foot-and-mouth disease virus empty capsid subunit antigen with nonstructural protein 2B improves protection of swine.
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Rhyan, J., Deng, M., Wang, H., Ward, G., Gidlewski, T., McCollum, M., Metwally, S., McKenna, T., Wainwright, S., Ramirez, A., Mebus, C., and Salman, M.
Foot-and-Mouth Disease in North American bison and elk: susceptibility, intra- and interspecies transmission, clinical signs, and lesions.
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DOCUMENT TYPE: Article

Sainz, I.F., Holinka, L.G., Lu, Z., Risatti, G.R., Borca, M.V.
Removal of a N-linked glycosylation site of classical swine fever virus strain Brescia Erns glycoprotein affects virulence in swine.
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Genetic characterization and molecular epidemiology of foot-and-mouth disease viruses isolated from Afghanistan in 2003-2005.
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2009

De los Santos, T., Diaz-San Segundo F., Zhu J., Koster M., Dias C.C.A., Grubman M.J.
A conserved domain in the leader proteinase of Foot-and-Mouth Disease Virus is required for proper subcellular localization and function.
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DOCUMENT TYPE: Article

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Alteration of the N-linked glycosylation condition in El glycoprotein of Classical Swine Fever Virus strain Brescia alters virulence in swine.
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Development and evaluation of a recombinant DNA vaccine candidate expressing porcine circovirus 2 structural protein.
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DOCUMENT TYPE: Article

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Analysis of Foot-and-Mouth Disease Virus integrin receptor expression in tissues from naïve and infected cattle.
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The antiviral state induced by IFNβ differs in MARC-145 cells and PAMs as demonstrated by infection outcomes with different PRRSV isolates.
(2009) *Abstracts/Veterinary Immunology and Immunopathology*, 128, pp.326-327.
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(2009) *Clinical and Vaccine Immunology*
DOCUMENT TYPE: Article

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Field evaluation of a multiplex real-time reverse transcription polymerase chain reaction assay for detection of Vesicular stomatitis virus.
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Carrillo, C., Prarat, M., Vagnozzi, A., Calahan, J.D., Smoliga, G., Nelson, W.M., Rodriguez, R.R.
Specific detection of Rinderpest Virus by real-time RT-PCR in preclinical and clinical samples of experimentally infected cattle.
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- Zhu J., Weiss M., Grubman M.J., de los Santos T.
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