



SCIENTIFIC PAPERS

SEAC/SCI/JAN 05/1

Arnold ME, Wilesmith JW. Estimation of the age-dependent risk of infection to BSE of dairy cattle in Great Britain. *Prev Vet Med.* 2004;**66(1-4)**:35-47.

SEAC/SCI/JAN 05/2

Blanch EW, Gill AC, Rhie AG, Hope J, Hecht L, Nielsen K, and Barron LD. Raman optical activity demonstrates poly(L-proline) II helix in the N-terminal region of the ovine prion protein: implications for function and malfunction. *J Mol Biol.* 2004;**343(2)**:467-76.

SEAC/SCI/JAN 05/3

Booth S, Bowman C, Baumgartner R, Dolenko B, Sorensen G, Robertson C, Coulthart M, Phillipson C, and Somorjai R. Molecular classification of scrapie strains in mice using gene expression profiling. *Biochem Biophys Res Communi.* 2004;**325(4)**:1339-45.

SEAC/SCI/JAN 05/4

Booth S, Bowman C, Baumgartner R, Sorensen G, Robertson C, Coulthart M, Phillipson C, and Somorjai RL. Identification of central nervous system genes involved in the host response to the scrapie agent during preclinical and clinical infection. *J Gen Virol.* 2004;**85(Pt 11)**:3459-71.

SEAC/SCI/JAN 05/5

Bradley Ray and Liberski Pawel P. Bovine spongiform encephalopathy (BSE): the end of the beginning or the beginning of the end? *Folia Neuropathologica.* 2004;**42(A)**:55-68.

SEAC/SCI/JAN 05/6

Brown AR, Webb J, Rebus S, Williams A, and Fazakerley JK. Identification of up-

regulated genes by array analysis in scrapie-infected mouse brains. *Neuropathol Appl Neurobiol.* 2004;**30(5)**:555-67.

SEAC/SCI/JAN 05/7

Brown P, Rau EH, Lemieux P, Johnson BK, Bacote AE, and Gajdusek DC. Infectivity studies of both ash and air emissions from simulated incineration of scrapie-contaminated tissues. *Enviro Sci Technol.* 2004;**38(22)**:6155-60.

SEAC/SCI/JAN 05/8

Broxmeyer, L. Is mad cow disease caused by a bacteria? *Medical Hypotheses.* 2004;**63(4)**:731-39 .

SEAC/SCI/JAN 05/9

Caplazi P, O'Rourke K, Wolf C, Shaw D, and Baszler TV. Biology of PrPsc accumulation in two natural scrapie-infected sheep flocks. *J Vet Diagn Invest.* 2004;**16(6)**:489-96.

SEAC/SCI/JAN 05/10

Cardinale A, Filesi I, Vetrugno V, Pocchiari M, Sy MS, and Biocca S. Trapping Prion Protein in the Endoplasmic Reticulum Impairs PrPC Maturation and Prevents PrPSc Accumulation. *J Biol Chem.* 2005;**280(1)**:685-94.

SEAC/SCI/JAN 05/11

Carrell RW. Biomedicine: Prion dormancy and disease. *Science.* 2004;**306(5702)**:1692-3.

SEAC/SCI/JAN 05/12

Cashman NR, and Caughey B. Prion diseases--close to effective therapy? *Nat Rev Drug Discov.* 2004;**3(10)**: 874-84.

SEAC/SCI/JAN 05/13

Chesebro B. A fresh look at BSE. *Science.* 2004;**305(5692)**:1918-21.

SEAC/SCI/JAN 05/14

Cohen-Sabas CH, Heim D, Zurbriggen A, and Stark KD. Age-period-cohort analysis of the Bovine Spongiform Encephalopathy (BSE) epidemic in Switzerland. *Prev Vet Med.* 2004;**66(1-4)**:19-33.

SEAC/SCI/JAN 05/15

Dabaghian RH, Mortimer PP, and Clewley JP. Prospects for the development of

pre-mortem laboratory diagnostic tests for Creutzfeldt-Jakob disease. *Rev Med Virolog.* 2004;**14(6)**:345-61.

SEAC/SCI/JAN 05/16

Daude N. Prion diseases and the spleen. *Viral Immunol.* 2004;**17(3)**:334-49.

SEAC/SCI/JAN 05/17

Freixes M, Puig B, Rodriguez A, Torrejon Escribano B, Blanco R, and Ferrer I. Clusterin solubility and aggregation in Creutzfeldt-Jakob disease. *Acta Neuropathologica.* 2004;**108(4)**:295-301.

SEAC/SCI/JAN 05/18

Gavier-Widen D, Noremark M, Benestad S, Simmons M, Renstrom L, Bratberg B, Elvander M, and Segerstad CH. Recognition of the Nor98 variant of scrapie in the Swedish sheep population. *J Vet Diagn Invest.* 2004;**16(6)**:562-7.

SEAC/SCI/JAN 05/19

Georgieva D, Koker M, Redecke L, Perbandt M, Clos J, Bredehorst R, Genov N, and Betzel C. Oligomerization of the proteolytic products is an intrinsic property of prion proteins. *Biochem Biophys Res Communi.* 2004;**323(4)**:1278-86.

SEAC/SCI/JAN 05/20

Hafezparast M, Brandner S, Linehan J, Martin JE, Collinge J, and Fisher EMC. Prion disease incubation time is not affected in mice heterozygous for a dynein mutation. *Biochem Biophys Res Communi.* 2004;**326(1)**:18-22.

SEAC/SCI/JAN 05/21

Healy AM, Morgan KL, Hannon D, Collins JD, Weavers E, and Doherty ML. Postal questionnaire survey of scrapie in sheep flocks in Ireland. *Vet Rec.* 2004;**155(16)**:493-4.

SEAC/SCI/JAN 05/22

Heppner FL, Aguzzi A. Recent developments in prion immunotherapy. *Curr opin Immunol.* 2004;**16(5)**:594-8.

SEAC/SCI/JAN 05/23

Ironside JW, and Head MW. Variant Creutzfeldt-Jakob disease: risk of transmission by blood and blood products. *Haemophilia.* 2004;**10(4)**:64-9.

SEAC/SCI/JAN 05/24

Kawamoto Y, Akiguchi I, Jarius C, and Budka H. Enhanced expression of 14-3-3 proteins in reactive astrocytes in Creutzfeldt-Jakob disease brains. *Acta Neuropathol.* 2004;**108(4)**:302-308.

SEAC/SCI/JAN 05/25

Kercher L, Favara C, Chan CC, Race R, and Chesebro B. Differences in scrapie-induced pathology of the retina and brain in transgenic mice that express hamster prion protein in neurons, astrocytes, or multiple cell types. *Am J Pathol.* 2004;**165(6)**:2055-67.

SEAC/SCI/JAN 05/26

Kikuchi Y, Kakeya T, Sakai A, Takatori K, Nakamura N, Matsuda H, Yamazaki T, Tanamoto K, and Sawada J. Propagation of a protease-resistant form of prion protein in long-term cultured human glioblastoma cell line T98G. *J Gen Virol.* 2004;**85(11)**:3449-57.

SEAC/SCI/JAN 05/27

Konold T, Bone G, Ryder S, Hawkins SAC, Courtin F, and Berthelin Baker C. Clinical findings in 78 suspected cases of bovine spongiform encephalopathy in Great Britain. *Vet Rec.* 2004;**155(21)**:659-66.

SEAC/SCI/JAN 05/28

Lekishvili T, Sassoon J, Thompsett AR, Green A, Ironside JW, and Brown DR. BSE and vCJD cause disturbance to uric acid levels. *Exp Neurol.* 2004;**190(1)**:233-44.

SEAC/SCI/JAN 05/29

Lemmer K, Mielke M, Pauli G, and Beekes M. Decontamination of surgical instruments from prion proteins: In vitro studies on the detachment, destabilization and degradation of PrP(Sc) bound to steel surfaces. *J Gen Virol.* 2004;**85(12)**:3805-16.

SEAC/SCI/JAN 05/30

Ligos C, Dexter G, Spiropoulos J, Maestrale C, Carta A, and Simmons MM. Distribution of vascular amyloid in scrapie-affected sheep with different genotypes. *J Comp Path.* 2004;**131(4)**:271-6.

SEAC/SCI/JAN 05/31

Madec JY, Simon S, Lezmi S, Bencsik A, Grassi J, and Baron T. Abnormal prion protein in genetically resistant sheep from a scrapie-infected flock. *J Gen Virol.* 2004;**85(11)**:3483-6.

SEAC/SCI/JAN 05/32

Mallucci G, Collinge J. Update on Creutzfeldt-Jakob disease. *Curr Opin Neurol.* 2004;**17(6)**:641-7.

SEAC/SCI/JAN 05/33

Megy S, Bertho G, Kozin SA, Debey P, Hoa GH, and Girault JP. Possible role of region 152-156 in the structural duality of a peptide fragment from sheep prion protein. *Protein Sci.* 2004;**13(12)**:3151-60.

SEAC/SCI/JAN 05/34

Neuendorf E, Weber A, Saalmueller A, Schatzl H, Reifenberg K, Pfaff E, and Groschup MH. Glycosylation deficiency at either one of the two glycan attachment sites of cellular prion protein preserves susceptibility to bovine spongiform encephalopathy and scrapie infections. *J Biol Chem.* 2004;**279(51)**: 53306-16.

SEAC/SCI/JAN 05/35

Onnasch H, Gunn HM, Bradshaw BJ, Benestad SL, and Bassett HF. Two Irish cases of scrapie resembling Nor98. *Vet Rec.* 2004;**155(20)**:636-7.

SEAC/SCI/JAN 05/36

Orge L, Galo A, Machado C, Lima C, Ochoa C, Silva J, Ramos M, and Simas JP. Identification of putative atypical scrapie in sheep in Portugal. *J Gen Virol.* 2004;**85(11)**:3487-91.

SEAC/SCI/JAN 05/37

Pollera C, Caramelli M, Giannino ML, Martino PA, Puricelli M, Casalone C, Gazzuola P, and Poli G. Transmissible Spongiform Encephalopathy (TSE): vaccinal approach using the hamster model. *Vet Res Communi.* 2004;**28(1)**:303-6.

SEAC/SCI/JAN 05/38

Polymenidou M, Heppner FL, Pelliccioli EC, Urich E, Miele G, Braun N, Wopfner F, Schatzl HM, Becher B, and Aguzzi A. Humoral immune response to native eukaryotic prion protein correlates with anti-prion protection. *Proc Natl Acad Sci.* 2004;**101(2)**:14670-6.

SEAC/SCI/JAN 05/39

Ponti W, Sala M, Pollera C, Braida D, Poli G, and Bareggi S. In vivo model for the evaluation of molecules active towards transmissible spongiform encephalopathies. *Vet Res Communi.* 2004;**28(1)**:307-10.

SEAC/SCI/JAN 05/40

Prior F, Fernie K, Renfrew A, and Heneaghan G. Alcoholic fixation of blood to surgical instruments - A possible factor in the surgical transmission of CJD? *J Hosp Infect.* 2004;**58(1)**:78-80.

SEAC/SCI/JAN 05/41

Riemer C, Neidhold S, Burwinkel M, Schwarz A, Schultz J, Kraetzschmar J, Moenning U, and Baier M. Gene expression profiling of scrapie-infected brain tissue. *Biochem Biophys Res Communi.* 2004;**323(2)**:556-564.

SEAC/SCI/JAN 05/42

Sanchez-Valle R, Nos C, Yague J, Graus F, Dominguez A, Saiz A, and Catalan. Collaborative Study Group for CJD. Clinical and genetic features of human prion diseases in Catalonia: 1993-2002. *Eur J Neurol.* 2004;**11(10)**:649-55.

SEAC/SCI/JAN 05/43

Sellarajah S, Lekishvili T, Bowring C, Thompsett AR, Rudyk H, Birkett CR, Brown DR, and Gilbert IH. Synthesis of analogues of Congo red and evaluation of their anti-prion activity. *J Med Chem.* 2004;**47(22)**:5515-34.

SEAC/SCI/JAN 05/44

Shintaku M, and Yutani C. Oligodendrocytes within astrocytes ("emperipolesis") in the white matter in Creutzfeldt-Jakob disease. *Acta Neuropathol.* 2004;**108(3)**:201-6.

SEAC/SCI/JAN 05/45

Spraker TR, Balachandran A, Zhuang D, and ORourke KI. Variable patterns of distribution of Prp(CWD) in the obex and cranial lymphoid tissues of Rocky Mountain elk (*Cervus elaphus nelsoni*) with subclinical chronic wasting disease. *Vet Rec.* 2004;**155(10)**:295-302.

SEAC/SCI/JAN 05/46

Wieser HG, Schwarz U, Blaettler T, Bernoulli C, Sitzler M, Stoeck K, and Glatzel M. Serial EEG findings in sporadic and iatrogenic Creutzfeldt-Jakob disease. *Clin Neurophysiol.* 2004;**115(11)**:2467-478.