



## SCIENTIFIC PAPERS

### SEAC/SCI/SEP 04/1

Acin C, Martin Burriel I, Goldmann W, Lyahyai J, Monzon M, Bolea R, Smith A, Rodellar C, Badiola JJ, and Zaragoza P. Prion protein gene polymorphisms in healthy and scrapie-affected Spanish sheep. *J Gen Virol.* 2004; **85(7)**: 2103-2110.

### SEAC/SCI/SEP 04/2

Agorogiannis EI, Agorogiannis GI, Papadimitriou A, and Hadjigeorgiou GM. Protein misfolding in neurodegenerative diseases. *Neuropathol Appl Neurobiol.* 2004; **(30)**: 215-224.

### SEAC/SCI/SEP 04/3

Aguzzi A, and Miele G. Recent advances in prion biology. *Curr Opin Neurol.* 2004; **17**: 337-341.

### SEAC/SCI/SEP 04/4

Arjona A, Simarro L, Islinger F, Nishida N, and Manuelidis L. Two Creutzfeldt-Jakob disease agents reproduce prion protein-independent identities in cell cultures. *Proc Natl Acad Sci U S A.* 2004; **101(23)**: 8768-8773.

### SEAC/SCI/SEP 04/5

Bainbridge J, Jones N, and Walker B. Multiple antigenic peptides facilitate generation of anti-prion antibodies. *Clin Exp Immunol.* 2004; **137(2)**: 298-304 .

### SEAC/SCI/SEP 04/6

Baron T, Crozet C, Biacabe AG, Philippe S, Verchere J, Bencsik A, Madec JY, Calavas D, and Samarut J. Molecular analysis of the protease-resistant prion protein in scrapie and bovine spongiform encephalopathy transmitted to ovine transgenic and wild-type mice. *J Virol.* 2004; **78(12)**: 6243-51.

#### **SEAC/SCI/SEP 04/7**

Bastian FO, Dash S, and Garry RF. Linking chronic wasting disease to scrapie by comparison of *Spiroplasma mirum* ribosomal DNA sequences. *Exp Mol Pathol*. 2004; **77(1)**: 49-56.

#### **SEAC/SCI/SEP 04/8**

Baylis M, Chihota C, Stevenson E, Goldmann W, Smith A, Sivam K, Tongue S, and Gravenor MB. Risk of scrapie in British sheep of different prion protein genotype. *J Gen Virol*. 2004; **85(9)**: 2735-40.

#### **SEAC/SCI/SEP 04/9**

Boelle PY, Cesbron JY, and Valleron AJ. Epidemiological evidence of higher susceptibility to vCJD in the young. *BMC Infect Dis*. 2004; **4(26)**:1471-2334

#### **SEAC/SCI/SEP 04/10**

Bunk S. Chronic wasting disease - Prion disease in the wild. *Plos Biology*. 2004; **2(4)**: 427-430.

#### **SEAC/SCI/SEP 04/11**

Buschmann A, Luhken G, Schultz J, Erhardt G, and Groschup MH. Neuronal accumulation of abnormal prion protein in sheep carrying a scrapie-resistant genotype (PrPARR/ARR). *J Gen Virol*. 2004; **85(9)**:2727-33.

#### **SEAC/SCI/SEP 04/12**

Chihota CM, Gravenor MB, and Baylis M. Investigation of trace elements in soil as risk factors in the epidemiology of scrapie. *Vet Rec*. 2004; **154(26)**: 809-813.

#### **SEAC/SCI/SEP 04/13**

Coore RR, Love S, McKinstry JL, Weaver HR, Phillips A, Hillman T, Hiles MJ, Shand A, Helps CR, and Anil MH. Dissemination of brain emboli following captive bolt stunning of sheep: Capacity for entry into the systemic arterial circulation. *J Food Prot*. 2004; **67(5)**:1050-1052 .

#### **SEAC/SCI/SEP 04/14**

Cunningham AA. Erratum: Distribution of bovine spongiform encephalopathy in Greater Kudu (*Tragelaphus strepsiceros*) *Emerg Infect Dis*. 2004;**10(7)****1353**:1044-1049.

#### **SEAC/SCI/SEP 04/15**

Eberl H, Tittmann P, and Glockshuber R. Characterization of recombinant, membrane-

attached full-length prion protein. *J Biol Chem.* 2004; **279(24)**:25058-65.

**SEAC/SCI/SEP 04/16**

Eghiaian F, Grosclaude J, Lesceu S, Debey P, Doublet B, Treguer E, Rezaei H, and Knossow M. Insight into the PrPC-->PrPSc conversion from the structures of antibody-bound ovine prion scrapie-susceptibility variants. *Proc Natl Acad Sci U S A.* 2004; **101(28)**:10254-9.

**SEAC/SCI/SEP 04/17**

Favereaux A, Quadrio I, Vital C, Perret Liaudet A, Anne O, Laplanche JL, Petry KG, and Vital A. Pathologic prion protein spreading in the peripheral nervous system of a patient with sporadic Creutzfeldt-Jakob disease. *Arch Neurol.* 2004; **61(5)**: 747-750.

**SEAC/SCI/SEP 04/18**

Ferrer I, Freixas M, Blanco R, Carmona M, and Puig B. Selective PrP-like protein, doppel immunoreactivity in dystrophic neurites of senile plaques in Alzheimer's disease. *Neuropathol Appl Neurobiol.* 2004; **30(4)**: 329-37.

**SEAC/SCI/SEP 04/19**

Fichet G, Comoy E, Duval C, Antloga K, Dehen C, Charbonnier A, Mc Donnell G, Brown P, Lasmezas CI, and Deslys JP. Novel methods for disinfection of prion-contaminated medical devices. *Lancet.* 2004; **364(9433)**: 521-526 .

**SEAC/SCI/SEP 04/20**

Foster PR. Removal of TSE agents from blood products. *Vox Sang.* 2004; **87(2)**:7-10.

**SEAC/SCI/SEP 04/21**

Furukawa H, Doh ura K, Okuwaki R, Shirabe S, Yamamoto K, Udono H, Ito T, Katamine S, and Niwa M. A pitfall in diagnosis of human prion diseases using detection of protease-resistant prion protein in urine - Contamination with bacterial outer membrane proteins. *J Biol Chem* 2004; **279(22)**: 23661-23667 .

**SEAC/SCI/SEP 04/22**

Garcia-Crespo D, Oporto B, Gomez N, Nagore D, Benedicto L, Juste RA, and Hurtado A. PrP polymorphisms in Basque sheep breeds determined by PCR-restriction fragment length polymorphism and real-time PCR. *Vet Rec.* 2004; **154(23)**:717-22.

**SEAC/SCI/SEP 04/23**

Goldmann-W, Pewrucchini M, Smith A, and Hunter N. Genetic variability of the PrP gene in a goat herd in the UK. *Vet Rec.* 2004; **155**:177-178.

**SEAC/SCI/SEP 04/24**

Gregoire S, Logre C, Metharom P, Loing E, Chomilier J, Rosset MB, Aucouturier P, and Carnaud C. Identification of two immunogenic domains of the prion protein-PrP-which activate class II-restricted T cells and elicit antibody responses against the native molecule. *J Leukoc Biol.* 2004; **76(1)**:125-134.

**SEAC/SCI/SEP 04/25**

Gregori L, McCombie N, Palmer D, Birch P, Sowemimo-Coker SO, Giulivi A, and Rohwer RG. Effectiveness of leucoreduction for removal of infectivity of transmissible spongiform encephalopathies from blood. *Lancet.* 2004; **364(9433)**: 529-31.

**SEAC/SCI/SEP 04/26**

Grobben AH, Steele PJ, Somerville RA, and Taylor DM. Inactivation of the bovine-spongiform-encephalopathy (BSE) agent by the acid and alkaline processes used in the manufacture of bone gelatine. *Biotechnol Appl Biochem.* 2004; **39(3)**:329-38.

**SEAC/SCI/SEP 04/27**

Hamir AN, Miller JM, Cutlip RC, Kunkle RA, Jenny AL, Stack MJ, Chaplin MJ, and Richt JA. Transmission of sheep scrapie to elk (*Cervus elaphus nelsoni*) by intracerebral inoculation: final outcome of the experiment. *J Vet Diagn Invest.* 2004;**6(4)**:316-21.

**SEAC/SCI/SEP 04/28**

Hart J, Leier B, and Nahimiak S. Informed consent for blood transfusion: Should the possibility of prion risk be included? *Transfus Med Rev.* 2004; **18(3)**: 177-183 .

**SEAC/SCI/SEP 04/29**

Heikenwalder M, Prinz M, Heppner FL, and Aguzzi A. Current concepts and controversies in prion immunopathology. *J Mol Neurosci.* 2004; **23(1-2)**: 3-11 .

**SEAC/SCI/SEP 04/30**

Hundt C, and Weiss S. The prion-like protein Doppel fails to interact with itself, the prion protein and the 37 kDa/67 kDa laminin receptor in the yeast two-hybrid system. *Biochim Biophys Acta.* 2004; **1689(1)**: 1-5.

**SEAC/SCI/SEP 04/31**

Jeong BH, Nam JH, Lee YJ, Lee KH, Jang MK, Carp RI, Lee HD, Ju YR, Ahn Jo S, Park KY, and Kim YS. Polymorphisms of the prion protein gene (PRNP) in a Korean population. *J Hum Genet.* 2004; **49(6)**:319-24.

**SEAC/SCI/SEP 04/32**

Knight R. Prion diseases. *Vox Sang.* 2004; **87(1)**:104-6.

**SEAC/SCI/SEP 04/33**

Kovacs GG, Voigtlander T, Gelpi E, and Budka H. Rationale for diagnosing human prion disease. *World J Biol Psychiatry.* 2004; **5(2)**:83-91.

**SEAC/SCI/SEP 04/34**

Kusama T, Nomura T, Kadowaki K. Development of primers for detection of meat and bone meal in ruminant feed and identification of the animal of origin. *J Food Prot.* 2004; **67(6)**:1289-92.

**SEAC/SCI/SEP 04/35**

Legname G, Baskakov IV, Nguyen HOB, Riesner D, Cohen FE, De Armond SJ, and Prusiner SB. Synthetic mammalian prions. *Science.* 2004; **305(5684)**: 673-676.

**SEAC/SCI/SEP 04/36**

Lipp O, Ritzmann M, Kixmoller M, Heinritzi K, Hensel A, and Truyen U. Homogeneity of the prion protein gene in various European and Asian pig breeds. *J Vet Med B Infect Dis Vet Public Health.* 2004 ;**51(3)**:97-98.

**SEAC/SCI/SEP 04/37**

Lloyd SE, Linehan JM, Desbruslais M, Joiner S, Buckell J, Brandner S, Wadsworth JD, and Collinge J. Characterization of two distinct prion strains derived from bovine spongiform encephalopathy transmissions to inbred mice. *J Gen Virol.* 2004; **85(8)**:2471-8.

**SEAC/SCI/SEP 04/38**

Luhken G, Buschmann A, Groschup MH, Erhardt G. Prion protein allele A(136) H(154) Q(171) is associated with high susceptibility to scrapie in purebred and crossbred German Merinoland sheep. *Arch Virol.* 2004; **149(8)**:1571-80.

**SEAC/SCI/SEP 04/39**

MacGregor IR. Screening assays for Transmissible Spongiform Encephalopathies (TSEs). *Vox Sang.* 2004; **87(2)**:3-6.

**SEAC/SCI/SEP 04/40**

Matusue E, Kinoshita T, Sugihara S, Fujii S, Ogawa T, and Ohama E. White matter lesions in panencephalopathic type of Creutzfeldt-Jakob disease: MR imaging and pathologic correlations. *AJNR Am J Neuroradiol.* 2004; **25(6)**: 910-8.

#### **SEAC/SCI/SEP 04/41**

McCullough J, Anderson D, Brookie D, Bouchard JP, Fergusson D, Joly J, Kenny N, Lee D, Megann H, Page D, Reinhartz D, Williams JR, and Wilson K. Consensus conference on vCJD screening of blood donors: Report of the panel. *Transfusion*. 2004; **44(5)**: 675-683.

#### **SEAC/SCI/SEP 04/42**

McLennan NF, Brennan PM, McNeill A, Davies I, Fotheringham A, Rennison KA, Ritchie D, Brannan F, Head MW, Ironside JW, Williams A, and Bell JE. Prion protein accumulation and neuroprotection in hypoxic brain damage. *Am J Pathol*. 2004; **165(1)**: 227-35.

#### **SEAC/SCI/SEP 04/43**

Moroncini G, Kanu N, Solforosi L, Abalos G, Telling GC, Headl M, Ironside J, Brockes JP, Burton DR, and Williamson RA. Motif-grafted antibodies containing the replicative interface of cellular PrP are specific for PrP(Sc). *Proc Natl Acad Sci U S A* 2004; **101(28)**: 10404-10409.

#### **SEAC/SCI/SEP 04/44**

Mulcahy ER, Bartz JC, Kincaid AE, and Bessen RA. Prion infection of skeletal muscle cells and papillae in the tongue. *J Virol*. 2004; **78(13)**:6792-8.

#### **SEAC/SCI/SEP 04/45**

Picanco-Diniz CW, Boche D, Gomes-Leal W, Perry VH, and Cunningham C. Neuropil and neuronal changes in hippocampal NADPH-diaphorase histochemistry in the ME7 model of murine prion disease. *Neuropathol Appl Neurobiol*. 2004; **30(3)**:292-303.

#### **SEAC/SCI/SEP 04/46**

Priola SA, Vorberg I. Identification of possible animal origins of prion disease in human beings. *Lancet*. 2004; **363(9426)**:2013-4.

#### **SEAC/SCI/SEP 04/47**

Ramantanis SB. Cattle slaughtering and BSE risk Part II: Alternative and /or additional means of preventing and/or minimising the dispersal of CNS material during slaughter. *Vet Bull*. 2004; **74**:15-26.

#### **SEAC/SCI/SEP 04/48**

Ritchie DL, Head MW, and Ironside JW. Advances in the detection of prion protein in peripheral tissues of variant Creutzfeldt-Jakob disease patients using paraffin-embedded tissue blotting. *Neuropathol Appl Neurobiol*. 2004; **30(4)**:360-8.

**SEAC/SCI/SEP 04/49**

Sadowski M, Pankiewicz J, Scholtzova H, Tsai J, Li YS, Carp RI, Meeker HC, Gambetti P, Debnath M, Mathis CA, Shao L, Gan WB, Klunk WE, and Wisniewski T. Targeting prion amyloid deposits in vivo. *J Neuropathol Exp Neurol.* 2004 ;**63(7)**:775-784.

**SEAC/SCI/SEP 04/50**

Shorter J, and Lindquist S. Hsp104 catalyzes formation and elimination of self-replicating Sup35 prion conformers. *Science.* 2004; **304(5678)**: 1793-7.

**SEAC/SCI/SEP 04/51**

Solassol J, Arlotto M, and Lehmann S. Detection of prion after decontamination procedures: comparative study of standard Western blot, filter retention and scrapie-cell assay. *J Hosp Infect.* 2004; **57(2)**:156-61.

**SEAC/SCI/SEP 04/52**

Soto C and Castilla, J. The controversial protein-only hypothesis of prion propagation. *Nat Med.* 2004; **10(SUPPL.)**:63-67.

**SEAC/SCI/SEP 04/53**

Thomzig A, Spassov S, Friedrich M, Naumann D, and Beekes M. Discriminating scrapie and bovine spongiform encephalopathy isolates by infrared spectroscopy of pathological prion protein. *J Biol Chem.* 2004; **279(32)**: 33847-54.

**SEAC/SCI/SEP 04/54**

Tuite MF and Koloteva-Levin N. Propagating prions in fungi and mammals. *Mol Cell.* 2004; **14(5)**: 541-52.

**SEAC/SCI/SEP 04/55**

Vetrugno V. Safety of milk and milk derivatives in relation to BSE: the lactoferrin example. *Biometals.* 2004; **17(3)**: 353-356 .

**SEAC/SCI/SEP 04/56**

Vorberg I, Raines A, and Priola SA. Acute formation of protease-resistant prion protein does not always lead to persistent scrapie infection in vitro. *J Biol Chem.* 2004; **279(28)**: 29218-29225.

**SEAC/SCI/SEP 04/57**

Wang C, Geng X, Wang D, and Tian B. Purification of recombinant bovine normal prion protein PrP(104-242) by HPHIC. *J Chromatogr B Analyt Technol Biomed Life*

*Sci.* 2004; **806(2)**:185-90.