



## SCIENTIFIC PAPERS

### SEAC/SCI/MAY04/1

Anderson L, Rossi D, Linehan J, Brandner S, and Weissmann C. Transgene-driven expression of the Doppel protein in Purkinje cells causes Purkinje cell degeneration and motor impairment. *Proc Natl Acad Sci USA*. 2004; **101(10)**:3644-9 .

### SEAC/SCI/MAY04/2

Asante EA, Li YG, Gowland I, Jefferys JG and Collinge J. Pathogenic human prion protein rescues PrP null phenotype in transgenic mice. *Neurosci Lett*. 2004; **360(1-2)**:33-6.

### SEAC/SCI/MAY04/3

Baker C. A, Lu Z. Y, and Manuelidis L. Early induction of interferon-responsive mRNAs in Creutzfeldt-Jakob disease. *J Neuro Virol*. 2004; **10(1)**:29-40.

### SEAC/SCI/MAY04/4

Barral JM, Broadley SA, Schaffar G, and Hartl FU. Roles of molecular chaperones in protein misfolding diseases. *Semin Cell Dev Biol*. 2004; **15(1)**:17-29.

### SEAC/SCI/MAY04/5

Baskakov IV. Autocatalytic Conversion of Recombinant Prion Proteins Displays a Species Barrier. *J Biol Chem*. 2004; **279(9)**:7671-7677.

### SEAC/SCI/MAY04/6

Baskakov IV, Legname G, Gryczynski Z, and Prusiner SB. The peculiar nature of unfolding of the human prion protein. *Protein Sci*. 2004; **13(3)**:586-95.

### SEAC/SCI/MAY04/7

Beisel CE, and Morens DM. Variant Creutzfeldt-Jakob disease and the acquired and transmissible spongiform encephalopathies. *Clin Infect Dis*. 2004; **38(5)**:697-704.

#### **SEAC/SCI/MAY04/8**

Belosi B, Gaggelli E, Guerrini R, Kozlowski H, Luczkowski M, Mancini FM, Remelli M, Valensin D, and Valensin G. Copper binding to the neurotoxic peptide PrP106-126: Thermodynamic and structural studies. *ChemBiochem*. 2004;**5(3)**:349-359.

#### **SEAC/SCI/MAY04/9**

Billinis C, Psychas V; Leontides L; Spyrou V; Argyroudis S; Vlemmas I; Leontides S; Sklaviadis T, and Papadopoulos O. Prion protein gene polymorphisms in healthy and scrapie-affected sheep in Greece. *J Gen Virol*. 2004:547-54

#### **SEAC/SCI/MAY04/10**

Buschmann A, Biacabe AG, Ziegler U, Bencsik A, Madec JY, Erhardt G, Luehken G, Baron T, and Groschup MH. Atypical scrapie cases in Germany and France are identified by discrepant reaction patterns in BSE rapid tests. *J Virol Methods*. 2004; **117(1)**:27-36.

#### **SEAC/SCI/MAY04/11**

Castilla J, Gutierrez AA, Brun A, Pintado B, Parra B, Ramirez MA, Salguero FJ, Diaz San Segundo F, Rabano A, Cano MJ, and Torres JM. Different behavior toward bovine spongiform encephalopathy infection of bovine prion protein transgenic mice with one extra repeat octapeptide insert mutation. *J Neurosci*. 2004; **24(9)**:2156-2164.

#### **SEAC/SCI/MAY04/12**

Chatard PA; Rousset S, Bonin D, Guillaume S, and Droit VS. Nutritional knowledge and concerns about meat of elderly French people in the aftermath of the crises over BSE and foot-and-mouth. *Appetite*. 2004; **42(2)**:175-183.

#### **SEAC/SCI/MAY04/13**

Chen FC, Hsieh YHP, and Bridgman RC. Monoclonal antibody-based sandwich enzyme-linked immunosorbent assay for sensitive detection of prohibited ruminant proteins in feedstuffs. *J Food Prot*. 2004; **67(3)**:544-549.

#### **SEAC/SCI/MAY04/14**

Ciesielski-Treska J, Grant NJ, Ulrich G, Corrotte M, Bailly Y, Haeberle AM, Chasserot-Golaz S, and Bader MF. Fibrillar prion peptide (106-126) and scrapie prion protein hamper phagocytosis in microglia. *Glia*. 2004; **46(2)**:101-15.

#### **SEAC/SCI/MAY04/15**

Curin SV; Bresjanac M; Popovic M; Pretnar HK; Galvani V; Ruprecht R; Cernilec M; Vranac T; Hafner I, and Jerala R. Monoclonal antibody against a peptide of

human prion protein discriminates between Creutzfeldt-Jacob's disease-affected and normal brain tissue. *J Biol Chem.* 2004; **279(5)**:3694-8.

**SEAC/SCI/MAY04/16**

Davies ML, Hopkins LJ, Halliday S, Houston F, Hunter N, and McConnell I. Architecture of secondary lymphoid tissue in sheep experimentally challenged with scrapie. *Immunology.* 2004; **111(2)**:230-236.

**SEAC/SCI/MAY04/17**

DeMarco ML, and Daggett V. From conversion to aggregation: Protofibril formation of the prion protein. *Proc Natl Acad Sci USA.* 2004; **101(8)**:2293-2298.

**SEAC/SCI/MAY04/18**

Dima R and Thirumalai D. Proteins associated with diseases present enhanced sequence correlation between charged residues. *Bioinformatics.* 2004. (Epub ahead of print).

**SEAC/SCI/MAY04/19**

Dobson CM. Principles of protein folding, misfolding and aggregation. *Semin Cell Dev Biol.* 2004; **15(1)**:3-16.

**SEAC/SCI/MAY04/20**

Droegemueller C, De Vries F, Hamann H, Leeb T, and Distl O. Breeding German sheep for resistance to scrapie. *Vet Rec.* 2004; **154(9)**:257-260).

**SEAC/SCI/MAY04/21**

Dyer Owen. Research groups fail to reach agreement on protocol for treatment trials for CJD. *BMJ.* 2004; **328(7440)**:603.

**SEAC/SCI/MAY04/22**

Fukushima R, Shiga Y, Nakamura M, Fujimori J, Kitamoto T, and Yoshida Y. MRI characteristics of sporadic CJD with valine homozygosity at codon 129 of the prion protein gene and PrPSc type 2 in Japan. *J Neurol Neurosurg Psychiatry.* 2004; **75(3)**:485-7.

**SEAC/SCI/MAY04/23**

Gilch S, Nunziante M, Ertmer A, Wopfner F, Laszlo L, and Schatzl HM. Recognition of luminal prion protein aggregates by post-ER quality control mechanisms is mediated by the prooctarepeat region of PrP. *Traffic.* 2004; **5(4)**:300-313.

**SEAC/SCI/MAY04/24**

Glatzel M, Giger O, Seeger H, Aguzzi A. Variant Creutzfeldt-jakob disease: between

lymphoid organs and brain. *Trends Microbiol.* 2004; **12(2)**:51-3.

**SEAC/SCI/MAY04/25**

Gregori L, Maring JA, MacAuley C, Dunston B, Rentsch M, Kempf C, and Rohwer RG. Partitioning of TSE infectivity during ethanol fractionation of human plasma. *Biologicals.* 2004; **32(1)**:1-10.

**SEAC/SCI/MAY04/26**

Gu Y, and Singh N. Doxycycline and protein folding agents rescue the abnormal phenotype of familial CJD H187R in a cell model. *Brain Res Mol Brain Res.* 2004; **123(1-2)**:37-44.

**SEAC/SCI/MAY04/27**

Haik S, Faucheux BA, and Hauw JJ. Brain targeting through the autonomous nervous system: Lessons from prion diseases. *Trends Mol Med.* 2004; **10(3)**:109-112.

**SEAC/SCI/MAY04/28**

Haire LF, Whyte SM, Vasisht N, Gill AC, Verma C, Dodson EJ, Dodson GG, and Bayley PM. The Crystal Structure of the Globular Domain of Sheep Prion Protein. *J Mol Biol.* 2004; **336(5)**:1175-1183.

**SEAC/SCI/MAY04/29**

Hamir AN, Miller J.M, Orourke KI, Bartz JC, Stack MJ, and Chaplin MJ. Transmission of transmissible mink encephalopathy to raccoons (*Procyon lotor*) by intracerebral inoculation. *J Vet Diagn Invest.* 2004; **16(1)**:57-63.

**SEAC/SCI/MAY04/30**

Hill AF, Collinge J. Prion strains and species barriers. *Contrib Microbiol.* 2004; **11**:33-49.

**SEAC/SCI/MAY04/31**

Hilton DA, Sutak J, Smith MEF, Penney M, Conyers L, Edwards P, Mc Cardle L, Ritchie D, Head MW, Wiley CA, and Ironside JW. Specificity of lymphoreticular accumulation of prion protein for variant Creutzfeldt-Jakob disease. *J Clin Pathol.* 2004; **57(3)**:300-2.

**SEAC/SCI/MAY04/32**

Humphry RW, Clark AM, Begara McGorum I, and Gunn GJ. Estimation of scrapie prevalence in cull and found-dead sheep on the Shetland Islands. *Vet Rec.* 2004; **154(10)**:303-304.

**SEAC/SCI/MAY04/33**

Kim CL, Umetani A, Matsui T, Ishiguro N, Shinagawa M, and Horiuchi M. Antigenic characterization of an abnormal isoform of prion protein using a new diverse panel of monoclonal antibodies. *Virology*. 2004; **320(1)**:40-51.

**SEAC/SCI/MAY04/34**

Knight RSG, and Will RG. Prion diseases. *J Neurol Neurosurg Psychiatry*. 2004; **75(1)**:i36- i42.

**SEAC/SCI/MAY04/35**

Leucht C, Vana K, Renner Muller I, Dormont D, Lasmezas CI, Wolf E, and Weiss S. Knock-down of the 37-kDa/67-kDa laminin receptor in mouse brain by transgenic expression of specific antisense LRP RNA. *Transgenic Res*. 2004; **13(1)**:81-85

**SEAC/SCI/MAY04/36**

McGovern G, Brown KL, Bruce ME, and Jeffrey M. Murine scrapie infection causes an abnormal germinal centre reaction in the spleen. *J Comp Pathol*. 2004; **130(2-3)**:181-194.

**SEAC/SCI/MAY04/37**

Mendoza Romero L, Verkaar ELC, Savelkoul PH, Catsburg A, Aarts HJ M, Buntjer JB, and Lenstra JA. Real-time PCR detection of ruminant DNA. *J Food Prot*. 2004; **67(3)**:550-554.

**SEAC/SCI/MAY04/38**

Nakajima M, Yamada T, Kusuhara T, Furukawa H, Takahashi M, Yamauchi A, and Kataoka Y. Results of quinacrine administration to patients with Creutzfeldt- Jakob disease. *Dement Geriatr Cogn Disord*. 2004; **17(3)**:158-163.

**SEAC/SCI/MAY04/39**

Normile DA. New Form of Mad Cow? *Science*. 2004; 303(5662):1285.

**SEAC/SCI/MAY04/40**

Ocana MF, Neubert H, Przyborowska A, Parker R, Bramley P, Halket J, and Patel R. BSE Control: Detection of gelatine-derived peptides in animal feed by mass spectrometry. *Analyst*. 2004; **129(2)**:111-115.

**SEAC/SCI/MAY04/41**

Press CM, Heggebo R, Espenes A. Involvement of gut-associated lymphoid tissue of ruminants in the spread of transmissible spongiform encephalopathies. *Adv Drug Deliv Rev.* 2004; **56(6)**:885-99.

#### **SEAC/SCI/MAY04/42**

Prusiner SB. Early evidence that a protease-resistant protein is an active component of the infectious prion. *Cell.* 2004; **S116( 2)**:S109,

#### **SEAC/SCI/MAY04/43**

Renner C, Fiori S, Fiorino F, Landgraf D, Deluca D, Mentler M, Grantner K, Parak FG, Kretzschmar H, and Moroder L. Micellar Environments Induce Structuring of the N-Terminal Tail of the Prion Protein. *Biopolymers.* 2004; **73(4)**:421-433.

#### **SEAC/SCI/MAY04/44**

Ryder S, Dexter G, Bellworthy S, Tongue S. Demonstration of lateral transmission of scrapie between sheep kept under natural conditions using lymphoid tissue biopsy. *Res Vet Sci.* 2004; **76(3)**:211-7.

#### **SEAC/SCI/MAY04/45**

Skretting G, Espenes A, Ulvund MJ, and Olsaker I. cDNA representational difference analysis of ileal Peyer's patches in lambs after oral inoculation with scrapie. *Biochem Biophys Res Communi.* 2004; **316(1)**:272-279.

#### **SEAC/SCI/MAY04/46**

Sugiura K, Ito K, Yokoyama R, Kumagai S, and Onodera T. A model to assess the risk of the introduction into Japan of the bovine spongiform encephalopathy agent through imported animals, meat and meat-and-bone meal. *Rev Sci Tech Off Int Epiz.* 2004; **22(3)**:777-794.

#### **SEAC/SCI/MAY04/47**

Thuring CMA, Erkens JHF, Jacobs JG, Bossers A, Van Keulen LJM, Garssen GJ, Van Zijderveld FG, Ryder SJ, Groschup MH, Sweeney T, and Langeveld JPM. Discrimination between Scrapie and Bovine Spongiform Encephalopathy in Sheep by Molecular Size, Immunoreactivity, and Glycoprofile of Prion Protein. *J Clin Microbiol.* 2004; **42(3)**:972-980.

#### **SEAC/SCI/MAY04/48**

Truchot L, Bencsik A, Perret Liaudet A, Biacabe AG, Richard M, Ironside J, Kopp N, and Streichenberger N. Quantitative Study of Spongiform Change in Putamen of 24 Cases of Creutzfeldt-Jakob Disease. *J Neuropath Exp Neurol.* 2004; **63(3)**:193-198.

#### **SEAC/SCI/MAY04/49**

Tsuchiya K, Yagishita S, Ikeda K, Sano M, Taki K, Hashimoto K, Watabiki S, and Mizusawa H. Coexistence of CJD and Alzheimer's disease: An autopsy case showing typical clinical features of CJD. *Neuropathology*. 2004; **24(1)**:46-55.

**SEAC/SCI/MAY04/50**

Van Everbroeck B, Dobbeleir I, De Waele M, De Deyn P, Martin JJ, and Cras P. Differential diagnosis of 201 possible Creutzfeldt-Jakob disease patients. *J Neurol*. 2004; 251(3):298-304.

**SEAC/SCI/MAY04/51**

Villanueva J, Hoshino M, Katou H, Kardos J, Hasegawa K, Naiki H, and Goto Y. Increase in the conformational flexibility of beta(2)-microglobulin upon copper binding: A possible role for copper in dialysis-related amyloidosis. *Protein Sci*. 2004; 13(3):797-809

**SEAC/SCI/MAY04/52**

Watarai M. Interaction between *Brucella abortus* and cellular prion protein in lipid raft microdomains. *Microbes Infect*. 2004; 6(1):93-100.

**SEAC/SCI/MAY04/53**

Wickner RB, Edskes HK, Roberts BT, Baxa U, Pierce MM, Ross ED, and Brachmann A. Prions: Proteins as genes and infectious entities. *Genes Dev*. 2004; 18(5):470-85.

**SEAC/SCI/MAY04/54**

Wilson C, Hughes L, Rashid T, Cunningham P, Bansal S, Ebringer A, and Ettelaie C. Antibodies to prion and *Acinetobacter* peptide sequences in bovine spongiform encephalopathy. *Vet Immunol Immunopathol*. 2004; 98(1-2):1-7.

**SEAC/SCI/MAY04/55**

Wilson JF. Risks from Microbes on the Rise: Reasons Why and Ways to Prevent Future Epidemics. *Ann Intern Med*. 2004; 140(6):497-500.