



## SCIENTIFIC PAPERS

### SEAC/SCI/JUL 04/1

Aguzzi A. Understanding the diversity of prions. *Nature Cell Biology*. 2004 Apr; **6(4)**:290-292.

### SEAC/SCI/JUL 04/2

Andreoletti O, Simon S, Lacroux C, Morel N, Tabouret G, Chabert A, Lugan S, Corbiere F, Ferre P, Foucras G, Laude H, Eychenne F, Grassi J, and Schelcher F. PrPSc accumulation in myocytes from sheep incubating natural scrapie. *Nat Med*. 2004;**10(6)**:591-3.

### SEAC/SCI/JUL 04/3

Apetri AC, Surewicz K, and Surewicz WK. The effect of disease-associated mutations on the folding pathway of human prion protein. *J Biol Chem*. 2004 Apr; **279(17)**:18008-14.

### SEAC/SCI/JUL 04/4

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 Apr 22;**360(1-2)**:33-6.

### SEAC/SCI/JUL 04/5

Baier M, Schwarz A, and Mielke M. Activity of an alkaline 'cleaner' in the inactivation of the scrapie agent. *J Hosp Infect*. 2004; **57(1)**:80-4.

### SEAC/SCI/JUL 04/6

Bailly Y, Haeberle AM, Blanquet-Grossard F, Chasserot-Golaz S, Grant N, Schulze T, Bombarde G, Grassi J, Cesbron JY, and Lemaire Vieille C. Prion Protein (PrPc)

Immunocytochemistry and Expression of the Green Fluorescent Protein Reporter Gene under Control of the Bovine PrP Gene Promoter in the Mouse Brain. *Journal of Comparative Neurology*. 2004 May 24; **473(2)**:244-269.

**SEAC/SCI/JUL 04/7**

Banks WA, Niehoff ML, Adessi C, and Soto C. Passage of murine scrapie prion protein across the mouse vascular blood-brain barrier. *Biochemical and Biophysical Research Communications*. 2004 May 21; **318(1)**:125-130.

**SEAC/SCI/JUL 04/8**

Belay ED, Maddox RA, Williams ES, Miller MW, Gambetti P, and Schonberger LB. Chronic wasting disease and potential transmission to humans. *Emerg Infect Dis*. 2004; **10(6)**:977-84.

**SEAC/SCI/JUL 04/9**

Bender S, Alverson J, Herrmann LM, and O'Rourke KI. Histamine as an aid to biopsy of third eyelid lymphoid tissue in sheep. *Vet Rec*. 2004 May; **154(21)**:662-3.

**SEAC/SCI/JUL 04/10**

Blajchman MA, Goldman M, Webert KE, Vamvakas EC, Hannon J, and Delage G. Proceedings of a Consensus Conference: The screening of blood donors for variant CJD. *Transfusion Medicine Reviews*. 2004 Apr; **18(2)**:73-92.

**SEAC/SCI/JUL 04/11**

Bozzetta E, Acutis PL, Martucci F, Nappi R, Casalone C, Mazza M, and Caramelli M. Evaluation of rapid tests for the diagnosis of transmissible spongiform encephalopathies in sheep and goats. *Acta Neuropathol (Berl)*. 2004; **107(6)**:559-62.

**SEAC/SCI/JUL 04/12**

Caplazi PA, O'Rourke KI, and Baszler TV. Resistance to scrapie in PrP ARR/ARQ heterozygous sheep is not caused by preferential allelic use. *J Clin Pathol*. 2004; **57(6)**:647-50.

**SEAC/SCI/JUL 04/13**

Croes EA, Alizadeh BZ, Bertoli-Avella AM, Rademaker T, Vergeer-Drop J, Dermaut B, Houwing-Duistermaat JJ, Wientjens DPWM, Hofman A, Van Broeckhoven C, and van Duijn CM. Polymorphisms in the prion protein gene and in the doppel gene increase susceptibility for Creutzfeldt-Jakob disease. *European Journal of Human Genetics*. 2004 May; **12(5)**:389-394

**SEAC/SCI/JUL 04/14**

Doh-ura K, Ishikawa K, Murakami-Kubo I, Sasaki K, Mohri S, Race R, and Iwaki T. Treatment of transmissible spongiform encephalopathy by intraventricular drug infusion in animal models. *J Virol.* 2004; **78(10)**:4999-5006.

**SEAC/SCI/JUL 04/15**

Ersdal C, Simmons MM, Gonzalez L, Goodsir CM, Martin S, and Jeffrey M. Relationships between ultrastructural scrapie pathology and patterns of abnormal prion protein accumulation. *Acta Neuropathologica.* 2004 May; **107(5)**:428-438

**SEAC/SCI/JUL 04/16**

Ghosh S. Mechanism of intestinal entry of infectious prion protein in the pathogenesis of variant Creutzfeldt-Jakob disease. *Advanced Drug Delivery Reviews.* 2004 Apr 19; **56(6)**:915-920.

**SEAC/SCI/JUL 04/17**

Govaerts C, Wille H, Prusiner SB, Cohen FE. Evidence for assembly of prions with left-handed beta-helices into trimers. *Proc Natl Acad Sci U S A.* 2004 Jun; **101(22)**: 8342-7.

**SEAC/SCI/JUL 04/18**

Haik S, Faucheux BA, and Hauw JJ. Brain targeting through the autonomous nervous system: lessons from prion diseases. *Trends Mol Med.* 2004; **10(3)**:107-12.

**SEAC/SCI/JUL 04/19**

Hammersmith KM, Cohen EJ, Rapuano CJ, and Laibson PR. Creutzfeldt-Jakob disease following corneal transplantation. *Cornea.* 2004 May; **23(4)**:406-408.

**SEAC/SCI/JUL 04/20**

Hounsell EF. Prions in control of cell glycosylation. *Biochem J.* 2004 Jun; **380(Pt 2)**:e5-6.

**SEAC/SCI/JUL 04/21**

Huang FP, and MacPherson GG. Dendritic cells and oral transmission of prion diseases. *Adv Drug Deliv Rev.* 2004 Apr; **56(6)**:901-13.

**SEAC/SCI/JUL 04/22**

Kahn S, Dube C, Bates L, and Balachandran A. Chronic wasting disease in Canada:

Part 1. *Can Vet J.* 2004; **45**:397-404

**SEAC/SCI/JUL 04/23**

Kiachopoulos S, Heske J, Tatzelt J, and Winklhofer KF. Misfolding of the prion protein at the plasma membrane induces endocytosis, intracellular retention and degradation. *Traffic.* 2004 Jun; **5(6)**:426-436.

**SEAC/SCI/JUL 04/24**

Kneipp J, Miller LM, Spassov S, Sokolowski F, Lasch P, Beekes M, and Naumann D. Scrapie-infected cells, isolated prions, and recombinant prion protein: A comparative study. *Biopolymers.* 2004 May-2004 Jun 30; **74(1-2)**:163-167

**SEAC/SCI/JUL 04/25**

Kuwata K, Kamatari YO, Akasaka K, and James TL. Slow conformational dynamics in the hamster prion protein. *Biochemistry.* 2004 Apr; **43(15)**:4439-46.

**SEAC/SCI/JUL 04/26**

Lezmi S, Martin S, Simon S, Comoy E, Bencsik A, Deslys JP, Grassi J, Jeffrey M, and Baron T. Comparative molecular analysis of the abnormal prion protein in field scrapie cases and experimental bovine spongiform encephalopathy in sheep by use of Western blotting and immunohistochemical methods. *J Virol.* 2004 Apr; **78(7)**:3654-3662.

**SEAC/SCI/JUL 04/27**

Mange A, Crozet C, Lehmann S, Beranger F. Scrapie-like prion protein is translocated to the nuclei of infected cells independently of proteasome inhibition and interacts with chromatin. *J Cell Sci.* 2004 May; **117(11)**:2411-2416.

**SEAC/SCI/JUL 04/28**

May BC, Govaerts C, Prusiner SB, and Cohen FE. Prions: so many fibers, so little infectivity. *Trends Biochem Sci.* 2004 Apr; **29(4)**:162-5.

**SEAC/SCI/JUL 04/29**

Miller MW, Williams ES, Hobbs NT, and Wolfe LL. Environmental sources of prion transmission in mule deer. *Emerg Infect Dis.* 2004 Jun; **10(6)**:1003-6.

**SEAC/SCI/JUL 04/30**

Minor PD. Technical aspects of the development and validation of tests for variant Creutzfeldt-Jakob disease in blood transfusion. *Vox Sanguinis.* 2004 Apr; **86(3)**:164-170.

**SEAC/SCI/JUL 04/31**

Notari S, Capellari S, Giese A, Westner I, Baruzzi A, Ghetti B, Gambetti P, Kretzschmar HA, Parchi P. Effects of different experimental conditions on the PrP<sup>Sc</sup> core generated by protease digestion: implications for strain typing and molecular classification of CJD. *J Biol Chem*. 2004 Apr 16; **279(16)**:16797-804.

**SEAC/SCI/JUL 04/32**

Paisley LG, Hostrup-Pedersen J. A quantitative assessment of the risk of transmission of bovine spongiform encephalopathy by tallow-based calf milk-replacer. *Prev Vet Med*. 2004 Apr 30; **63(1-2)**:135-49.

**SEAC/SCI/JUL 04/33**

Pawitan Y, Griffin JM, and Collins JD. Analysis and prediction of the BSE incidence in Ireland. *Prev Vet Med* 2004 Apr 16; **62(4)**:267-283 .

**SEAC/SCI/JUL 04/34**

Perrier V, Solassol J, Crozet C, Frobert Y, Mourton-Gilles C, Grassi J, and Lehmann S. Anti-PrP antibodies block PrP<sup>Sc</sup> replication in prion-infected cell cultures by accelerating PrP degradation. *Journal of Neurochemistry*. 2004 Apr; **89(2)**:454-463

**SEAC/SCI/JUL 04/35**

Pomfrett CJ, Glover DG, Bollen BG, and Pollard BJ. Perturbation of heart rate variability in cattle fed BSE-infected material. *Vet Rec*. 2004 May 29; **154(22)**:687-91.

**SEAC/SCI/JUL 04/36**

Press CM, Heggebo R, and Espenes A. Involvement of gut-associated lymphoid tissue of ruminants in the spread of transmissible spongiform encephalopathies. *Adv Drug Deliv Rev*. 2004 Apr 19; **56(6)**:885-99.

**SEAC/SCI/JUL 04/37**

Rosset MB, Ballerini C, Gregoire S, Metharom P, Carnaud C, and Aucouturier P. Breaking immune tolerance to the prion protein using prion protein peptides plus oligodeoxynucleotide-CpG in mice. *Journal of Immunology*. 2004 May 1; **172(9)**:5168-5174.

**SEAC/SCI/JUL 04/38**

Ryder S, Dexter G, Bellworthy S, and Tongue S. Demonstration of lateral transmission of scrapie between sheep kept under natural conditions using lymphoid

tissue biopsy. *Research in Veterinary Science*. 2004 Jun; **76(3)**:211-217.

**SEAC/SCI/JUL 04/39**

Telling GC. The mechanism of prion strain propagation. *Genome Biol*. 2004; **5(5)**:222.

**SEAC/SCI/JUL 04/40**

Thomzig A, Schulz-Schaeffer W, Kratzel C, Mai J, and Beekes M. Preclinical deposition of pathological prion protein PrP<sup>Sc</sup> in muscles of hamsters orally exposed to scrapie. *J Clin Invest*. 2004 May; **113(10)**:1465-72.

**SEAC/SCI/JUL 04/41**

Vanik DL, Surewicz KA, and Surewicz WK. Molecular basis of barriers for interspecies transmissibility of mammalian prions. *Mol Cell*. 2004 Apr 9; **14(1)**:139-45.

**SEAC/SCI/JUL 04/42**

Zhang J, Chen L, Zhang BY, Han J, Xiao XL, Tian HY, Li BL, Gao C, Gao JM, Zhou XB, Ma GP, Liu Y, Xu CM, and Dong XP. Comparison study on clinical and neuropathological characteristics of hamsters inoculated with scrapie strain 263K in different challenging pathways. *Biomed Environ Sci*. 2004 Mar; **17(1)**:65-78.