

J.M.Elsen, Y Amigues, F.Schelcher, V.Ducrocq, O.Andreoletti, F.Eychenne, J.V.Tien Khang, J.-P.Poivey, F.Lantier and J.-L.Laplanche, 'Genetic susceptibility and transmission factors in scrapie: detailed analysis of an epidemic in a closed flock of Romanov', *Archives of Virology*, 1999, volume 144, pages 431-445;

T.Nemoto, M Horiuchi, N.Ishiguro and M.Shinagawa, 'Detection methods of possible prion contaminants in collagen and gelatin', *Archives of Virology*, 1999, volume 144, pages 177-184;

G.Forloni, N.Angeretti, P.Malesani, E.Percssini, T.Rodriguez Martin, P.Della Torre and M.Salmona, 'Influence of mutations associated with familial prion-related encephalopathies on biological activity of prion protein peptides', *Annals of Neurology*, April 1999, volume 45, part 4, pages 489-494;

M.E.Bruce, 'Pathogenesis and pathology in animal TSE models', *Transfusion Clin. Biol.*, 1999, volume 6, pages 29-30;

S.Betmouni, R.M.J.Deacon, J.N.P.Rawlins, and V.H.Perry, 'Behavioral consequences of prion disease targeted to the hippocampus in a mouse model of scrapie', *Psychobiology*, 1999, volume 27 (1), pages 63-71;

F.Schelcher, N.Picard-Hagen, V.Larout, V.Gayraud, M.A.Popot, O.Andreoletti and P.L.Toutain, 'Corticoid concentrations are increased in the plasma and urine of ewes with naturally occurring scrapie', *Endocrinology*, 1999, volume 140 (5), pages 2422-2425;

Michael F.Murphy, 'New variant CJD (nvCJD): The risk of transmission by blood transfusion and the potential benefit of leukocyte-reduction of blood components', *Transfusion Medicine Reviews*, April 1999, Volume 13 No 2, pages 75-83;

R.Will, 'New variant CJD', *Biomed & Pharmacother*, 1999, volume 53, pages 9- 13;

F.Gray, F.Chretien, H.Adle-Biassette, A.Dorandeu, T.Ereau, M-B.Delisle, N.Kopp, J.W.Ironsides and C Vital, 'Neuronal apoptosis in CJD', *Journal of Neuropathology and Experimental Neurology*, 1999, volume 58 (4), pages 321-328;

P.A.McBride and M.Beekes, 'Pathological PrP is abundant in sympathetic and sensory ganglia of hamsters fed with scrapie', *Neuroscience Letters*, 1999, volume 265, pages 135-138;

W.A.Coojey, L.A.Davis, P.Keyes and M.J.Stack, 'The reproducibility of scrapie-associated fibril and PrPSC detection methods after long-term cold storage of natural ovine scrapie-affected brain tissue', *Journal of Comparative Pathology*, 1999, volume 120, pages 357-368;

G.S.Jackson, A.F.Hill, C.Joseph, L.Hosszu, A.Power, J.P.Waltho, A.R.Clarke and J.Collinge, 'Multiple folding pathways for heterologously expressed human prion protein', *Biochimica et Biophysica Acta*, 1999, volume 1431,

C.H.Cohen, J.-Y.Csbron and A.-J.Valleron, 'Cost-effectiveness of BSE screening', *Veterinary Record*, Short Communications, June 19 1999, pages 703-706;

J Masel, V.A.A.Jansen and M.Nowak, 'Quantifying the kinetic parameters of prion replication', *Biophysical Chemistry*, volume 77, 1999, pages 139-152;

R.G.Will and J.W.Ironside, 'Oral infection by the BSE prion', *Proceedings of the National Academy of Sciences USA*, April 1999, volume 96, pages 4738-4739;

D.M.Taylor, K.Femic, I.McConnell and P.J.Steale, 'Survival of scrapie agent after exposure to sodium dodecyl sulphate and heat', *Veterinary Microbiology*, 1999, volume 67, pages 13-16;

A.Alperovitch, I.Zerr, M.Pocchiari, J de Pedro E.Mitrova, Cuesta, I.Hegy, S.Collins, H.Kretzschmar, C van Duijn and R.G.Will, 'Codon 129 prion protein genotype and sporadic CJD', *Research Letters of the Lancet*, volume 353, May 15 1999, pages 1673-1674;

M.E.J.Woolhouse, L.Matthews, P.Coen, S.M.Stringer, J.D.Foster and N.Hunter, 'Population dynamics of scrapie in a sheep flock', *Philosophical Trans. Of the Royal Society London*, volume 354, 1999, pages 751-756;

A.Aguzzi and S.Brandner, 'Shrinking prions: new folds to old questions' *News and Views of Nature Medicine*, volume 5, number 5, May 1999, pages 486-487;

C.A.Baker, Z.Y.Lu, I.Zaitsev and L.Manuelidis, 'Microglial activation varies in different models of CJD', *Journal of Virology*, June 1999, volume 73, number 6, pages 5089-5097;

A.J.Racber, M.A.Klein, R.Frigg, E.Flechs, A.Aguzzi and C.Weissmann, ' Prp-dependent association of prions with splenic but not circulating lymphocytes of scrapie-infected mice', *EMBO Journal*, volume 18 number 10, 1999, pages 2702-2706;

I.M.Franklin, 'The impact on British Blood Services of BSE and vCJD: implications for patients, donors and public health', *Scottish Medical Journal*, volume 44, number 2, April 1999, pages 35-36;

G.P.Saborio, C.Soto, R.J.Kascsak, E.Levy, R.Kascsak, D.A.Hanis and B.Frangione, 'Cell-lysate conversion of prion protein into its protease-resistant isoform suggests the participation of a cellular chaperone', *Biochemical and Biophysical Research Communications*, volume 258, 1999, pages 470- 475;

F.R.A.Cagampang, S.A.Whatley, A.L.Mitchell, J.F.Powell, I.C.Campbell and C.W.Coen, 'Circadian regulation of prion protein messenger RNA in the rat forebrain: a widespread and synchronous rhythm', *Neuroscience*, volume 91, number 4, 1999, pages 1201-1204;

I.Ferrer, R.Rivera, R.Blanco and E.Marti, 'Expression of proteins linked to exocytosis and neurotransmission in patients with CJD', *Neurobiology of Disease*, volume 6, 1999, pages 92-100;

H.Liu, S.Farr-Jones, N.B.Ulyanov, M.Llinas, S.Marqusee, D.Groth, F.E.Cohen, S.B.Prusiner and T.L.James, 'Solution structure of Syrian Hamster prion protein rPrP(90-231)', *Biochemistry*, volume 38, 1999, pages 5362-5377;

H.Budka, J.A.Hainfellner, M.Beekes, P.A.McBride, M.Hardt and M.H.Groschup,

'Immunocytochemical detection of disease-associated prion protein in the peripheral nervous system of prion disease', American Association of Neuropathologists, Journal of Neuropathology and Experimental Neurology, 1999, volume 91, 1999 number 5, item 169, page 551;

B.Canciani, M.G.Bruzzone, T.Awan, L.Farina, G.Giaccone, L.Caposio, G.Poli, P.Dall'Ara, M.Savoiaro, O.Bugiani and F.Tagliavini, 'Neuropathological correlates of magnetic resonance abnormalities in experimental prion disease', American Association of Neuropathologists, Journal of Neuropathology and Experimental Neurology, 1999, volume 91, 1999 number 5, item 203, page 560;

M.M.Bahn and P.Parchi, 'Abnormal diffusion-weighted magnetic resonance images in CJD', Archives of Neurology, volume 56, May 1999, pages 577-583;

C.S.Eisner, R.Neal and B.Scaife, 'The effect of the 1996 'bce' crisis' on depression and anxiety in farmers and non-farming controls' British Journal of General Practice, May 1999, volume 49, part 442, pages 385-386;

X.Ye, A.C.Scallett, R.J.Kascsak and R.I.Carp, 'Astrocytosis and proliferating cell nuclear antigen expression in brains of scrapie-infected hamsters', Journal of Molecular Neuroscience, volume 11, 1998, pages 253-263;

J.Collinge, 'Variant CJD', Lancet, volume 354, July 24, pages 317-323;

C.Kuwahara, A.M.Takeuchi, T.Nishimura, K.Haraguchi, A.Kubosaki, Y.Matsumoto, K.Saeki, Y.Matsumoto, T.Yokoyama, S.Itoharu and T.Onodera, 'Prions prevent neuronal cell-line death', Nature, volume 400, 15 July 1999, pages 225-226;

Philip Cohen, 'Before the madness: At last we know what the proteins that cause CJD usually do', New Scientist, 17 July 1999, page 13;

M.J.Seghatchian and P.Knildasiri, 'II. Validation Approaches. Selective/Universal Leucodepletion: The need for standardised validation strategies', Transfusion Science, volume 19, number 4, 1998, pages 363-365;

M.F.Murphy, 'Potential clinical benefits and cost savings of universal leucocyte-depletion of blood components', Transfusion Science, volume 19, number 4, pages 343-346;

J.W.Tyler, D.M.Weaver, J.R.Turk, K.I.O'Rourke, M.G.Harrington, W.Taylor and A.Jenny, 'Naturally occurring scrapie in Southdown sheep', Journal of Veterinary Internal Medicine, 1999, volume 13, pages 213-216;

M.G.Doherr, D.Heim, M.Vandevclde and R.Falzer, 'Modelling the expected numbers of preclinical and clinical cases of BSE in Switzerland', Veterinary Record, August 7 1999, pages 155-160;

V.Beringue, C.I.Lasmezas, K.T.Adjou, R.Demaimay, F.Lamoury, J-P.Deslys, M.Seman and D.Donnont, 'Inhibiting scrapie neuroinvasion by polyene antibiotic treatment of SCID mice', Journal of General Virology, 1999, volume 80, pages 1873-1877;

J.Durig, A. Giese, W.Schulz-Schaeffer, C Rosenthal, U.Schxnucker, J .Bieschke, H.A.Kretzschmar and U.Duhrsen, 'Differential constitutive and activation-dependent expression of prion protein in human peripheral blood leukocytes', *Experimental Hematology*. 1999, volume 27, number 7, page 366;

M. Horiuchi and B. Caughey, "Specific binding of normal prion protein to the scrapie form via a localized domain initiates its conversion to the protease-resistant state", *EMBO Journal*. 1999. volume 18, number 12, pages 3193-3203;

D.W.Lec, H.O.Sohn, H.B.Lim. Y.G.Lee, Y.S.Kim, R.I.Carp and H.M.Wisniewski, "Alteration of free radical metabolism in the brain of mice infected with scrapie agent", *Free Rad. Res*, volume 30, pages 499-507;

V.R.Martins, "A receptor for infectious and cellular prion protein", *Brazilian Journal of Medical and Biological research*, 1999, volume 259, pages 853-859; '

S.McHattie and N.Edington, "Clusterin prevents aggregation of neuropeptide 106-126 *in vitro*" *Biochemical and Biophysical research communications*, volume 259, pages 336-340, 1999;

N.Nishida, P.Tremblay, T.Sugimoto, K. Shigematsu, S. Shirabe, C.PetrQmilli, S.Pilkuhn Erpel, R.Nakaoke, R. Atarashi, T.Houtani, M.Torchia, S.Sakaguchi, S.J.DeAlmond, S.B.Prusiner and S.Katamine, "A mouse prion protein transgene rescues mice deficient for the prion protein gene from purkinje cell degeneration and demyelination", *Laboratory Investigation*, volume 79, number 6, page 689, 1999;

G.M.Shaked, G.Fridlander, Z.Mcincir, A.Taraboulos, and R.Gabizon "Protease- resistant and detergent-insoluble prion protein is not necessarily associated with prion infectivity", *The Journal of Biological Chemistry*, June 18, 1999, volume 274, number 25, pages 17981-17986:

R.A.Somerville, "Host and transmissible spongiform encephalopathy agent strain control glycosylation of PrP", *Journal of Virology*, 1 999; volume 80, pages 1865-1872;

H.Takahashi, R.H.Takahashi, H.Hasegawa, M.Horiuchi, M.Shinagawa, T.Yokoyama, K.Kimura, M.Haritani, T.Kurata, and K.Nagashima, "Characterization of antibodies raised against bovine-PrP-peptides", *Journal of NeuroVirology*, 1999, volume 5, pages 300-307;

H.Ushijima, S.Perovic, J.Leuck, P.G.Rytik, W.E.G.Muller, and H.C.Schroder, " Suppression of PrP^{Sc} and HIV-1 gp120 induced neuronal cell death by sulfated colominic acid", *Journal of Neuro Virology*, 1999, volume 5, pages 289-299;

J.D.P.Wadsworth, G.S.Jackson, A.F.Hill, and J.Collinge, "Molecular biology of prion propagation", *Current opinion in Genetics and Development*, 1 999, volume 9, number 3 , pages 338-345;

B-S.Wong, H.Wang, D.R.Brown, and I.M.Jones, "Selective oxidation of methionine residues in prion proteins", Published in *Biochemical and Biophysical Research Communications*, volume 259, 1999, pages 352-355;

F.Wopfner, G.Weidenhofer, R.Schneider, A.Von Brunn, S.Gilch. T.F.Schwalz, T.Wemcr, and H.M.Schatzl, "Analysis of 27 mammalian and 9 avian PrPs reveals high conservation of

flexible regions of the prion protein", *Journal of Molecular Biology*, 1999 , 289, pages 1163-1178;

X.Ye, A.Scallet, and R.I.Carp, "Abnormal periodic acid-Schiff (PAS)-positive substance in the islets of Langerhans, pituitaries and adrenal glands of 139H scrapie-infected hamsters", *Histology and Histopathology*, 1999, volume 14, pages 673-678;

V.Yuzbasiyan-Gurkan, J.D.Krehbiel, Y.Cao, P.J.Venta, "Development and usefulness of new polymerase chain reaction-based tests for detection of different alleles at codons 136 and 171 of the ovine prion protein gene", *American Journal of Veterinary Research*, volume 60, number 7, July 1 1999;

S Cavallaro, C.J.Gibbs and P.Pergami, 'Early induction of protein nexin- 1 in scrapie', *Molecular Neuroscience*, 1999, volume 10, pages 1677- 1681;

S.Wcnischj E.Lucker, E.Eigenbrodt, R Leiser and M.Bulte, 'Detection of central nervous tissue in meat products- An immunohistochemical approach', *Nutrition Research*, volume 19, number 8, 1999, pages 1165- 1172;

S Brandner, M.A.Klein and A Aguzzi, 'A crucial role for B cells in neuroinvasive scrapie', *Transfus.Clin.Biol*, 1999, volume 6, pages 17-23;

P.Beauvais and T.Billette de Villemeur, 'Maladies a prion transfusion sanguine (Prion diseases and blood transfusion)', *Transfus.Clin.Biol*. 1999, volume 6, pages 24-28; (only summary in English)

S.Laperche, 'Maladie de Creutzfeldt-Jakob et risque transfusionnel: le point en 1998(CJD and blood transfusion-related risk in 1998)', *Transfus.Clin.Biol*. 1 1998, volume 6, pages 67-71; (only summary in English)

M.Russelakis-Cameiro, S.Betnouthi and V.H.Perry, 'Inflammatory response and retinal ganglion cell degeneration following intraocular injection of ME7' *Neuropathology and Applied Neurobiology*, 1999, volume 25, pages 196-206.

A.Giese, D.R.Brown, M.H.Groschup, C.Feldmann, I Haist and H.A.Kretschmar, 'Role of microglia in neuronal cell death in prion disease', *Brain Pathology*, volume 8, 1998, pages 449-457;

C.A.McLean, J.W.Ironside, M.P.Alpers, P.W.Brown, L.Cervenakova, R.M.C.D Anderson and C.L.Masters, 'Comparative neuropathology of kuru with the new variant of CJD: Evidence for strain of agent predominating over genotype of host', *Brain Pathology*, volume 8, 1998, pages 429-437;

P.Brown, R.G.Rohwer, B.C.Dunstan, C.MacAuley, D.C.Gajdusek and W.N.Drohan, 'The distribution of infectivity in blood components and plasma derivatives in experimental models of transmissible spongiform encephalopathy', *Transfusion*, volume 38, September 1998, pages 810-816;

B Evatt, H Austin, E Barnhart, L.Schonberger, L.Sharer, R.Jones and S.DeArmond, 'Surveillance for CJD among persons with hemophilia', *Transfusion*, volume 38, September

1998, pages 8 17-820;

A.C.Ghani, N.M.Ferguson, C.A.Donnely, T.J.Hagenaars and R.M.Anderson, 'Estimation of the number of people incubating variant CJD', *Lancet*, volume 352, October 24, 1998, pages 1353-1354;

S.Betnoui and V.H.Peny, 'The acute inflammatory response in CNS following injection of prion brain homogenate or normal brain homogenate', *Neuropathology and Applied Neurobiology*, 1999, volume 25, pages 20-28;

H.K.Edsles, V.T.Gray and R.B.Wickner, 'The [URE3] prion is an aggregated form of Ure2p that can be cured by overexpression of Ure2p fragments', *Proceedings of the National Academy of Sciences USA*, 1999, volume 96, pages 1498-1503;

J.H.Viles, F.E.Cohen, S.B.Prusiner, D.B.Goodin, P.E.Wright and H.Jane Dyson, 'Copper binding to the prion protein: Structural implications of four identical cooperative binding sites', *Proceeding of the National Academy of Sciences USA*, 1999, volume 96, pages 2042-2047;

U.Agrinri, G.Ru, F.Cardone, M.Pocchiari and M.Caramelli, 'Epidemic of transmissible spongiform encephalopathy in sheep and goats in Italy', *Lancet*, 1999, volume 353, pages 560-561;

D.Heim and U.Kilun, 'BSE in Switzerland- the past and the present', published in *Revue Scientifique et Technique de l'Office International des Epizotes*, 1999, volume 18, pages 135-144;

A.Aguzzi and C.Weissmann, 'Prion diseases', *Haemophilia*, 1998, volume 4, pages 619-627;

P.Demaerel, L.Heiner, W.Robberecht, R.Sciot and G.Wilms, 'Diffusion-weighted MRI in sporadic CJD', *Neurology*, 1999, volume 52, January, (1 of 2), pages 205-208;

J.Foster, C.Farquhar, J Fraser and R Somerville, 'Immunolocalization of the prion protein in scrapie affected rodent retinas', *Neuroscience Letters*, 1999, volume 260, pages 1-4;

J.W.Herms, T.Tings, S.Dunker and H.A.Kretzschmar, 'Prion protein modulates CA2+-activated K⁺-currents in cerebellar Purkinje cells', *Society for Neuroscience*, 1998, volume 24, page 516, item 206. 10;

G.I.Keshet, H.Ovadia, A.Taraboulos and R.Gabizon, 'Scrapie-infected mice and PrP Knockout mice share abnormal localization and activity of neuronal nitric oxide synthase', *Journal of Neurochemistry*, 1999, volume 72, no.3, pages 1224-1231;

S.Kropp, I Zerr, W.J.Schulz-Schaeffer, C.Riedemann, M.Bodemer, C.Laske, H.A.Kretzschmar and S.Poser, 'Increase of neuron-specific enolase in patients with CJD', *Neuroscience Letters*, 1999, volume 261, pages 124-126;

I.Vorberg, A.Buschmann, S.Harmeyer, A.Saalmuller, E.Pfaff and M.GTOschup, 'A novel epitope for the specific detection of exogenous prion proteins in transgenic mice and transfected murine cell lines', *Virology*, 1999, volume 255, pages 26-31;

P.M.Harrison, H.S.Chan and S.B.Prusiner, 'Thermodynamics of model prions and its implications for the problem of prion protein folding', *Journal of Molecular Biology*, 1999, volume 286, pages 593-606.;

G.A.Ascoli, P.Pergami, K.X.Luu, D L.Alkon, E.Bramanti, C.Bertucci, L Di Bari and P.Salvadori, 'Use of CD and FT-IR to determine the secondary structure of purified proteins in the low-microgram range', *Enantiomer*, 1998, volume 3, pages 371-381;

K.T.Adjou, R Demaimay, J-P Deslys, C.I.Lasmezas, V.Beringue, S.Demart, F.Lamoury, M.Seman and D.Dormont, 'MS-8209, a water-soluble amphotericin B derivative, affects both scrapie agent replication and PrPres accumulation in Syrian hamster scrapie', published in *Journal of General Virology*, 1999, volume 80, pages 1079-1085;

R.Demaimay, R.Race and B Chesebro, ' Effectiveness of polyene antibiotics in treatment of TSE in transgenic mice expressing Syrian hamster PrP only in neurons', *Journal of Virology*, April 1999, volume 73, part 4, pages 3511-3513;

R.G.Will, S.N.Cousens, C.P.Farrington, P.G.Smith, R.S.G.Knight and J.W.Ironside, ' Deaths from variant CJD', *Lancet*, March 20 1999, volume 353, page 979;

M.A.Tranulis, A.Osland, B.Bratberg and M.J.Ulvund, ' Prion protein gene polymorphisms in sheep with natural scrapie and healthy controls in Norway', *Journal of General Virology*, 1999, volume 80, pages 1073-1077;

K Zirnmermann, P.L.Turecek and H.P.Schwarz, 'Genotyping of the prion protein gene at codon 129', *Acta Neuropathol*, 1999, volume 97, pages 355-358;

S.Supattapone, P.Bosque, T.Muramoto, H.Wille, C.Aagaard, D.Peretz, H.B.Nguyen, C.Heinrich, M.Torchia, J.Safar, F.E.Cohen, S.J.DeArmond, S.B.Prusiner and M.Scott, 'Prion Protein of 106 residues creates an artificial transmission barrier for prion replication in transgenic mice', *Cell*, 19 March 1999, volume 96, pages 869-878;

J.Y.Cesbron, 'Immune System and Neuroinvasion by Prions: What is the role of B cells ?', *Medecine/Sciences*, 1999, volume 15, pages 296-297;

A.Aguzzi and A.J.Raeber, 'Neurodegeneration: Of (transgenic) Mice and Men', *Brain Pathology*, 1998, volume 8, pages 695-697;

R.Cappai, L.Stewart, M.F.Jobling, J.M.Thyer, A.R.White, K.Beyreuther, S.J.Collins, C.L.Masters and C.J.Barrow, 'Familial Prion Disease Mutation alters the secondary structure of recombinant mouse Prion Protein: implications for the mechanism of Prion formation', *Biochemistry*, 1999, volume 38, pages 3280-3284;

D.V.Dear, T.J.Fitzmaurice, P.J.A.Goymer and S.Richards, 'Rapid expression of polymorphic ovine prion proteins and studies on their protease sensitivity', *Brain Research Bulletin*, 1999, volume 48, number 1, pages 89-92;

I.L.Derkatch, M.E.Bradley, P.Zhou and S.W.Liebman, 'The PNM2 mutation in the prion protein domain of SUP35 has distinct effects on different variants of the [PSI⁺] prion in yeast', *Curr Genet* 1999, volume 35, pages 59-67;

P.R.Foster, 'Assessment of the potential of plasma fractionation processes to remove causative agents of transmissible spongiform encephalopathy', *Transfusion Medicine*, 1999, volume 9, pages 3-14;

M.Guentchev, M.H.Groschup, R.Kordek, P.P.Liberski and H.Buoka, 'Severe, early and selective loss of a subpopulation of GABAergic inhibitory neurons in experimental Transmissible Spongiform Encephalopathies', *Brain Pathology*, 1998, volume 8, pages 615-623;

K.Kawai, S.Watarai, H.Takahashi, H.Ishiau, K.Fnkai, Y.Tanabe, O.Yokota and S.Kuroda, 'Demonstration of ganglioside GD3 in human reactive astrocytes', published in *Psychiatry and Clinical Neurosciences*, 1999, volume 53, pages 79-82;

S.Liemann and R.Glockshuber, 'Influence of amino acid substitutions related to inherited human prion diseases on the Thermodynamic stability of the cellular prion protein', *Biochemistry*, 1999, volume 38, pages 3258-3267;

A.J.Raeber, S.Brandner, M.A.Klein, Y.Benninger, C.Musahl, R.Frigg, C.Roeckl, M.B.Fischer, C.Weissmann and A.Aguzzi, 'Transgenic and knockout mice in research on prion diseases', *Brain Pathology*, 1998, volume 8, pages 715-733;

D.Verjat, P.Prognon and J.C.Darbord, 'Fluorescence-assay on traces of protein on re-usable medical devices: cleaning efficiency', *International Journal of Pharmaceutics*, 1999, volume 179, pages 267-271;

J.M.Peyrin, C.I.Lasmezas, S.Haik, F.Tagliavani, M.Sahnona, A.Williams, D.Richie, J-P.Deslys, and D.Dormont, 'Microglial cells respond to amyloidogenic PrP peptide by the production of inflammatory cytokines', *Neuroreport*, 1999, volume 10, pages 723-729;

E.Stimson, J Hope and A.L.Burlingame, 'Structures of the N-linked glycans of the prion protein isolated from murine models of scrapie', *FASEB Journal*, 1998, volume 12 part 8, A1349;

M.Baldwin, R.Whittal, H.Ball, S.Prusiner and A.Burlingame, 'Copper binding to the prion protein monitored by ESI-MS' *FASEB Journal*, 1998, volume 12, part 8, A1398;

Q.Yang, Y.Hashizume and Y.Wang, 'Neuropathological study of cerebellar degeneration in prion disease', *Neuropathology*, 1999, volume 19, pages 33-39.

C von Holst, K Honikel, W Unglaub, G Kramer and E Anklam, 'Determination of an appropriate heat treatment of animal waste using the ELISA technique: results of a validation study', *Meat Science*, 2000, volume 54, number 1, pages 1-7;

R Race, M Oldstone and B Chesebro, 'Entry versus blockade of brain infection following oral or intraperitoneal scrapie administration: Role of prion protein expression in peripheral nerves and spleen', *Journal of Virology*, 2000, volume 74, number 2, pages 828-833;

D Brown, B Wong and I Jones, 'Recombinant prion protein exhibits superoxide dismutase activity', *Journal of Neurochemistry*, 1999, volume 73, supplement 19;

T Appel, D Kirsch, R Kaufurann and D Reisner, 'Prion rods contain small amounts of two host sphingolipids as revealed by high performance thin layer chromatography and maldi mass spectrometry', *Journal of Neurochemistry*, 1999, volume 73, supplement 159;

G Puoti, G Giaccone, G Rossi, B Canciani, O Bugiani and F Tagliavini, 'Sporadic creutzfeldt-jacob disease: Co-occurrence of different types of PrPsc in the same brain', *Neurology*, 1999, volume 53, number 9, pages 2173-2176;

David Brown, 'Prion protein expression aids cellular uptake and veratridine-induced release of copper', *Journal of Neuroscience Research*, 1999, volume 58, number 5, pages 717-725;

P Brown, L Cervenakova, L McShane, P Barber, R Rubenstein and W Drohan, 'Further studies of blood infectivity in an experimental model of transmissible spongiform encephalopathy, with an explanation of why blood components do not transmit Creutzfeldt-Jacob disease in humans', *Transfusion*, 1999, volume 39, number 11-12, pages 1169-1178;

J-II Kim, W-Kyu Ju, J-Ho-Choi, J Kim, E-Kyoung Choi, R Carp, H Wisniewski and Y-Sun Kim, 'Expression of cytokine genes and increased nuclear factor-kappa B activity in the brains of scrapie-infected mice', *Molecular Brain Research*, 1999, volume 73, N1-2, pages 17-27;

K Rodolfo, R Hassig, K Moya, Y Frobert, J Grassi and L Di Giamberardino, 'A novel cellular prion protein isoform present in rapid anterograde axonal transport', *Neuroreport*, 1999, volume 10, number 17, pages 3639-3644;

A McKie, P Zammit and R Nafialin, 'Comparison of cattle and sheep colonic permeabilities to horseradish peroxidase and hamster scrapie prion protein in vitro', *Gut*, 1999, volume 45, number 6, pages 879-888;

S Supattapone, H Nguyen, F Cohen, S Prusiner and M Scott, 'Elimination of prions by branched polyamines and implications for therapeutics', *PNAS*, 1999, volume 96, number 25, pages 14529-34;

C Weissmann and A Aguzzi, 'PrP's Double causes trouble', *Science*, 1999, volume 286, pages 914-915;

J Pammer, A Suchy, M Rendl and E Tschachler, 'Cellular prion protein expressed by bovine squamous epithelia of skin and upper gastrointestinal tract', *Lancet*, 1999, volume 354, pages 1702-3;

J Kopacek, S Sakaguchi, K Shigematsu, N Nishida, R Atarashi, R Nakaoke, R Moriuchi, M Niwa and S Katamine, 'Upregulation of the genes encoding lysosomal hydrolases, a perforin-like protein, and peroxidases in the brains of mice affected with an experimental prion disease', *Journal of Virology*, 2000, volume 74, number 1, pages 411 -4 17;

N Nishida, D HarTis, D Vi]ette, H Laude, Y Frobert, J Grassi, D Casanova, O Milhavet and S Lehmann, 'Successful transmission of three mouse-adapted scrapie strains to murine neuroblastoma cell lines overexpressing wild-type mouse prion protein', *Journal of Virology*, 2000, volume 74, number 1, pages 320-325;

M Beekes and P McBride, 'Early accumulation of pathological PrP in the enteric nervous system and gut-associated lymphoid tissue of hamsters orally infected with scrapie', *Neuroscience Letters*, 2000, volume 278, pages 181 -184;

G Barclay, J Hope, C Birkett and M Turner, 'Distribution of cell-associated prion protein in normal adult blood determined by flow cytometry', *British Journal of Haematology*, 1999, volume 107, number 4, pages 804-814;

D Brown, B Wong, F Haziz, C Clive, S Haswell and I Jones, 'Normal prion protein has an activity like that of superoxide dismutase', *Biochemical Journal*, 1999, volume 344, pages 1-5;

T Appel, C Dumpitak, U Matthiesen and D Riesner, 'Prion rods contain an inert Polysaccharide Scaffold', *Biological Chemistry*, 1999, volume 380, pages 1295-1306;

C L Masters, 'Story of an obsession' *Nature*, 1999, volume 402, pages 581 -582;

A Raeber and A Aguzzi, 'Engulfment of prions in the germinal centre', *Immunology Today*, 2000, volume 21, number 2, pages 66-67;

A Bossers, R de Vries and M Smits, 'Susceptibility of sheep for scrapie as assessed by in vitro conversion of nine naturally occurring variants of PrP', *Journal of Virology*, 2000, volume 74, number 3, pages 1407-1414;

C Soto, R Kasczak, G Saborio, P Aucouturier, T Wisniewski, F Prelli, R Kasczak, E Mendez, D Harris, J Ironside, F Tagliavini, R Carp and B Frangione, 'Reversion of prion protein conformational changes by synthetic β -sheet breaker peptides', *Lancet*, 2000, volume 355, pages 192- 197;

Graham Medley, 'Integrals of disease', *Nature*, 2000, volume 403, page 138;

James Hope, 'Breech-birth prions', *Nature*, 1999, volume 402, page 737;

L Li and S Lindquist, 'Creating a protein-based element of inheritance', *Science*, 2000, volume 287, pages 661-664;

M Head and J Ironside, 'Inhibition of prion-protein conversion: a therapeutic tool?', *Trends in Microbiology*, 2000, volume 8, number 1, pages 6-8;

J Madec, P Belli, D Calavas and T Baron, 'Efficiency of Western blotting for the specific immunodetection of proteinase K-resistant prion protein in BSE diagnosis in France', *Veterinary Record*, 2000, volume 146, pages 74-76;

M Hardt, T Baron and M Groschup, 'A comparative study of immunohistochemical methods for detecting abnormal prion protein with monoclonal and polyclonal antibodies', *Journal of Comparative Pathology*, 2000, volume 122, pages 43-53;

K Adjou, N Privat, S Demart, J Deslys, M Seman, J Hauw and D Dormont, 'MS-8209, an amphotericin B analogue, delays the appearance of spongiosis, astrogliosis and PrPres accumulation in the brain of scrapie-infected hamsters', *Journal of Comparative Pathology*,

2000, volume 122, pages 3-8;

W Schulz-Schaeffer, S Tschoke, N Klanefuss, W Drose, D Hause-Reitner, A Giese, M Groschup and H KJetzschmar, 'The paraffin-embedded tissue blot detects PrP^{sc} early in the incubation time in prion diseases', *American Journal of Pathology*, 2000, volume 156, number 1, pages 51-56;

Z Kanyo, K Pan, R Williamson, D Burton, S Prusiner, R Fletterick and F Cohen, 'Antibody binding defines a structure for an epitope that participates in the PrP^c → PrP^{Sc} conformational change', *Journal of Molecular Biology*, 1999, volume 293, number 4, pages 855-863;

Adriano Aguzzi, 'Prion diseases, blood and the immune system: concerns and reality', *Haematologica*, 2000, volume 85, number 1, pages 3- 10;

Heino Diringer, 'Contaminated surgical instruments and variant Creutzfeldt-Jacob disease', *Lancet*, 1999, volume 354, pages 1823-1824;

N Shiraishi, Y Ohta and M Nishikimi, 'The octapeptide repeat region of prion protein binds Cu(II) in the redox-inactive state', *Biochemical and Biophysical Research Communications*, 2000, volume 267, number 1, pages 398-402;

David Brown, 'Prion protein peptides: Optimal toxicity and peptide blockade of toxicity', *Molecular and Cellular Neuroscience*, 2000, volume 15, pages 66-78;

M Sugaya, K Nakamura, T Watanabe, N Yasaka, Y Koyama, S Irie, T Yokoyama, S Itohara and K Tamaki, 'Murine langerhans cells and keratinocytes express cellular prion-related protein: Possible mechanism of development of Spongiform Encephalopathy through the skin', *Journal of Investigative Dermatology*, 2000, volume 114, page 218;

A Ghani, C Donnelly, N Ferguson and R Anderson, 'Assessment of the prevalence of VCJD through testing tonsils and appendices for abnormal prion protein', *Proceedings of the Royal Society of London Series B Biological Sciences*, 2000, volume 267, pages 23-29;

A McLean, A Hoek, L Hoinville and M Gravenor, 'Scrapie transmission in Britain: a recipe for a mathematical model', *Proceedings of the Royal Society of London Series B Biological Sciences*, 1999, volume 266, pages 2531-2538.

A Aguzzi, M Klein, C Musahl, A Raeber, T Blattler, I Hegyi, R Frigg and S Brandner, 'Use of brain grafts to study the pathogenesis of prion diseases', *Essays in Biochemistry*, 1998, volume 33, pages 133-147;

S Capellari, S Zaidi, C Urig, G Perry, M Smith and R Petersen, 'Prion protein glycosylation is sensitive to redox change', *The Journal of Biological Chemistry*, 1999, volume 274, number 49, pages 34846-34850;

K Holada, J Vostal, P Theisen, C MacAuley and R Rohwer, 'Scrapie infectivity in hamster blood cells does not concentrate in platelets but is enriched in peripheral leukocytes', *Blood*, 1999, volume 94, number 10, page 1091 ;

S Dawson, 'The risk of infection by blood transfusion in England', *Journal of Clinical Pathology*, 2000, volume 53, number I, page 85;

A E Wrathall, 'Risks of transmission of spongiform encephalopathies by reproductive technologies in domesticated ruminants', *Livestock Production Science*, 2000, volume 62, number 3, pages 287-316;

D M Asher, 'The transmissible spongiform encephalopathy agents: concerns and responses of United States regulatory agencies in maintaining the safety of biologics', published in *Developments in Biological Standardization*, 1999, volume 100, pages 103- 118;

D Vilette, M Madelaine and H Laude, 'Establishment of astrocyte cell lines from sheep genetically susceptible to scrapie', *In Vitro Cellular & Development Biology-Animal*, 2000, volume 36. pages 45-49;

K Kimura, M Kubo and T Yokoyama. 'Characteristics of prion protein in the brains of hamsters inoculated serially with a mouse-passaged scrapie strain', *Journal of Comparative Pathology*, 2000, volume 122. pages 123-130;

S Ryder, S Hawkins, M Dawson and G Wells, 'The neuropathology of experimental bovine spongiform encephalopathy in the pig', published in the *Journal of Comparative Pathology*, 2000, volume 122, pages 131-143;

Paper by S Priola, A Raines and W Caughey, 'Porphyrin and Phthalocyanine and antiscrapie compounds', *Science*, 2000. volume 287, number 5457, pages 1503-1506;

M Jeffrey, W Halliday, J Bell, A Johnston, N Macleod, C Ingham, A Sayers, D Brown and J Fraser, 'Synapse loss associated with abnormal PrP precedes neuronal degeneration in the scrapie-infected murine hippocampus', *Neuropathology and Applied Neurobiology*, 2000, volume 26, number 1, pages 41-54;

E Graner, A Mercadante, S Zanata, O Forlenza, A Cabral. S Veiga, M Juliano, R Roesler, R Walz, A Minerti, I Izquierdo, V Martins and R Brentani. 'Cellular prion protein binds laminin and mediates neuritogenesis', *Molecular Brain Research*. 2000. volume 76, pages 85-92;

F Dandy-Dron, L Benboudjema, F Guillo. A Jaegly. C Jasmin, D Dormont, M Tovey and M Dron, 'Enhanced levels of scrapie responsive gene mRNA in BSE-infected mouse brain', *Molecular Brain Research*, 2000, volume 76, pages 173-179;

T Hagens, N Ferguson, C Donnelly, A Ghani and R Anderson, 'Feed-borne transmission and case clustering of BSE', *Proceedings of the Royal Society of London Series B Biological Sciences*. 2000. volume 267, pages 205-215.

参 考 资 料

様式(牛)

と畜検査データ還元事業(検査所用)

と畜年月日	平成11年4月27日	と畜番号	79	個体番号	682	畜種	牛	品種	黒毛和種	
性別	去	生年月日	平成9年8月14日	年齢	1才8ヶ月	導入年月日	平成10年2月26日			
導入先	生産公社									
既往症及び治療歴:10.2.26~28マイシリン、アイボメック、カナマイシン、10.3.3同5.21ヘモフィルスワクチン、10.4.19~24ピオペア、10.5.2~11.4.25ウロカルン、11.1.29ラクトリンゲル、AD3E										
その他飼育時の特記事項:10.4.29採血、11.4.25膀胱拡張、黄色便、眼結膜やや充血										
と畜検査所見										
生体検査										
著変認めず										
	疾病名	肉眼所見							廃棄部位	
循環器										
呼吸器										
消化器		大小腸特に変化無し。								
泌尿器		膀胱、尿道に砂粒状の結石有り。粘膜充血								
生殖器										
運動器	腹部筋炎、水腫	腹壁内面充血、水腫							腹壁正中線部分	
その他										
精密検査等										
コメント										
飼育時発熱、尿が褐色になったことはありませんでしたか。										
生体時重量	kg		枝肉重量	343kg						

様式 (牛)

と畜検査データ還元事業(生産者用)

畜種	牛	品種	種	性別	♂・去・♀	固体番号	
生年月日	平成 年 月 日		導入年月日	平成 年 月 日		導入時体重	kg
導入先							
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> 下記のうち、該当する項目の a, b, c に○印、もしくは内容を記入ください。 </div> <ol style="list-style-type: none"> 1. 削蹄 (a 3ヶ月以内 b 3ヶ月以上前 c なし) 2. 最終分娩 (a なし b 1ヶ月前 c 2ヶ月前 d 3ヶ月以上前) 3. 食欲 (a 異常なし b 1週間以上減退 c 3日以上廃絶) 4. 歩行の様子 (a 右前足の破行 b 左前足の破行 c 右後足の破行 d 左後足の破行 e よろける) 5. 1ヶ月以内の体重の変化 (a 増加 b 不変 c 10kg程度減少 d 削瘦) 6. 排尿 (a 異常なし b 淋漓 c 2日程度尿閉 d 3日以上尿閉) 7. 尿の性状 (a 異常なし b 濁り有り c 血尿) 8. 発咳 (a 特になし b 時々 c 頻繁) 9. 便の性状 (a 異常なし b 軟便 c 水様便 d 血便 c 便秘) 10. 姿勢の異常 (a 特になし b 背中を丸める c 尾を挙げる d 起立困難または不能) 11. 元気 (a 異常なし b 沈うつ c 一日中寝ている) 12. 行動の異常 (a 特になし b 自分の腹を蹴る c 頭を盛んに振る d 落ち着きがない) 13. 皮毛 (a 異常なし b 粗い c 脱毛 d 退色) 14. 視力 (a 異常なし b 減退 c 盲目) 15. その他 							
疾病、治療の記録							
主治医 (獣医師) の氏名及び所属							

様式 (豚)

平成 年 月 日

_____ 様

〇〇食肉衛生検査所長

出荷豚のMPS及び寄生虫性肝炎等の罹患状況について
と畜検査の結果は次のとおりでしたので、お知らせします。

記

- 1 データ収集期間 : 平成 年 月 日 ~ 平成 年 月 日
- 2 データ収集頭数 : 〇〇 頭
- 3 MPS罹患状況

* 参考
平成〇年度管内疾病罹患率 (%)

MPS 罹患程度	今 回	平成 年 月
	頭 (%)	頭 (%)
+	()	()
++	()	()
+++	()	()
計	()	()
指 数		

4 寄生虫性肝炎

	今 回	平成 年 月
	頭 (%)	頭 (%)
病変有り	()	()

5 その他の主な結果

5 コメントその他

【 担当 : 〇〇 Tel 〇〇〇〇-〇〇-〇〇〇〇 Fax 〇〇〇〇-〇〇-〇〇〇〇 】

様式 (豚)

と畜検査データ還元事業 (生産者用)

別紙様式1

記録開始年月日:平成 年 月 日 (日令)

フィードバック事業対象家畜ロット番号	(マ-ク :)
--------------------	----------

畜種	豚	品 種		生年月日	平成 年 月 日
同一ロット (同腹) 頭数		頭 (♂ : , ♀ :)			母 豚

〔飼料給与状況〕

月 日 月 日
月 日 月 日

〔薬剤・ワクチン等の投与、去勢、その他〕

月 日
月 日
月 日
月 日

〔生育状況〕 月 日	異常な所見* の有無 無 有 ((マ-ク:))	対応 (治療) 無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()
月 日	無 有 ((マ-ク:))	無・有 ()

〔と畜場搬入時の状況〕 と畜場搬入年月日 平成 年 月 日 (日令)

1 同一ロット (同腹) 中の搬入頭数: 頭 (死亡 頭、飼養継続 頭)
去勢 頭、♀ 7頭

2 搬入時の生体所見 : 全頭異常無し 異常有り 頭、

・マ-ク : (異常な所見 (部位)) * ・マ-ク : (異常な所見 (部位)) *

・マ-ク : () ・マ-ク : ()

* 〔異常な所見〕の記載例

A ; 体格 : 小、 B ; 削瘦、 C ; 歩様異常、 D ; 発咳、 E ; 下痢、 F ; 腹囲膨大、 G ; 尾咬症、
H ; 萎縮性鼻炎、 I ; 膿瘍 ()、 J ; 創傷 ()、 K ; その他 ()

別添

検査データ整理票

検査所名 :													
生産者No. :													
データ収集期間 : 平成 年 月 日 ~ 平成 年 月 日													
データ収集頭数 :													
飼養管理状況													
1 マイコプラズマ用ワクチン													
使用 <input type="checkbox"/> 無													
<input type="checkbox"/> 有 ワクチン名 ()													
用法用量	_____ 週齢 _____ ml												
	_____ 週齢 _____ ml												
	_____ 週齢 _____ ml												
2 寄生虫性肝炎													
薬品の使用 <input type="checkbox"/> 無													
<input type="checkbox"/> 有 薬品名 ()													
用法用量	_____												

3 その他 (経口及び飼料に添加して用いる抗生物質製剤等)													
使用 <input type="checkbox"/> 無													
<input type="checkbox"/> 有 抗生物質製剤等名 ()													
用法用量	<input type="checkbox"/> 飲水添加 <input type="checkbox"/> 飼料添加 <input type="checkbox"/> その他 ()												
	()												
《結果》													
データ収集頭数 : _____ 頭	データ収集頭数 : _____ 頭												
MPS	寄生虫性肝炎												
<table border="1"><thead><tr><th>罹患程度(点)</th><th>頭 (%)</th></tr></thead><tbody><tr><td>0</td><td>()</td></tr><tr><td>1</td><td>()</td></tr><tr><td>2</td><td>()</td></tr><tr><td>3</td><td>()</td></tr></tbody></table>	罹患程度(点)	頭 (%)	0	()	1	()	2	()	3	()	<table border="1"><thead><tr><th>陽性頭数 (%)</th><th>()</th></tr></thead></table>	陽性頭数 (%)	()
罹患程度(点)	頭 (%)												
0	()												
1	()												
2	()												
3	()												
陽性頭数 (%)	()												
指数 < _____ >													

参考資料

[分担研究施設による平成12年度事業結果]

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平成12年7月 日

様

MPS肺炎及び寄生虫性肝炎の検査データ還元について

食肉衛生行政の推進につきましては、日頃よりご協力をいただき感謝申し上げます。

さて、先に検査データの還元事業に関する協力についてお願いしていたところですが、第1回目の結果がまとまりましたので別添のとおり送付します。

記

- 1 対象：6月に(株)岩手畜産流通センターに搬入された貴農場分全頭
- 2 結果：別紙1
- 3 評価方法及びコメント：別紙2

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