PRION 2010 Salzburg

Scientific Programme

Monday, Sept. 6, to Wednesday, Sept. 8:

Hotel Crowne Plaza, see separate announcements
5th NeuroPrion Young Researchers Training in Scientific Communication

Wednesday, Sept. 8:

Pre-Congress Workshops

8:00-18:00 Karajan 3
PPW1 PrioNet Canada Prion Risk 2010 Global Consensus Meeting
see respective Announcement on the Web with details http://www.prionetcanada.ca.

13:30-18:00 Wolf Dietrich
PPW2 TSEs in animals and their environment
organised by J. Langeveld, M. Stack & E. Hoover, see respective Announcement on the Web with details on registration to jan.langeveld@wur.nl by Aug. 1, 2010.
**Thursday, Sept. 9:**

8:30-9:00 Europasaal  
**PRION Opening Ceremony** with musical interludes

9:00-10:00 Europasaal  
**PP 1 Plenary Lecture** (Chair: J. Hope)  
**Patrik Brundin**, Lund: Does a “prion-like” mechanism contribute to the spreading of neuropathology in Parkinson’s disease?

10:00-10:30  
*Coffee Break*

10:30-12:30 Europasaal  
**SP 1 Symposium: Zoonotic Potential of Animal TSEs** (Chair: B. Will, J. M. Torres)  
- **SP1-1 Jean Manson**, Edinburgh: Defining the zoonotic potential of a TSE strain  
- **SP1-2 Umberto Agrimi**, Rome: Evidence from classical strain typing in rodents  
- **SP1-3 Corinne I. Lasmézas**, Jupiter, FL: Evidence from transmission to primate  
- **SP1-4 Gianluigi Zanusso**, Verona: Evidence from molecular strain typing  
- **SP1-5 Joaquín Castilla**, Bilbao: In vitro studies for evaluating prion transmission between species  
- **SP1-6 Glenn Telling**, Lexington, KY: The zoonotic potential of CWD

12:30-13:30 Lunch Break with *Poster Viewing*  
*Posters are on display during the whole meeting*  
- *a) on the ground floor between registration office and Mozart Hall 1-3*  
- *b) on the 2nd floor in the Foyer and Paracelsus Hall*

13:30-15:30 Europasaal  
**WP 1: Protein Misfolding and Basic Mechanisms** (Chair: C. Weissmann, J. Requena)  
- **WP1-1 Jim Hope**, Edinburgh: Amyloid seeding vs. TSE agent infectivity  
- **WP1-2 Marc I. Diamond**, St. Louis, MO: Prion-like mechanisms in neurodegenerative diseases  
- **WP1-3 Walker S. Jackson**, Cambridge, MA: Mutant PrPs induce distinct neurodegenerative diseases and the spontaneous generation of prion infectivity

*Selected Abstracts*  
- **WP1-4 Binbin Gong, Adriana Ramos, Jana Alonso, Jesús R. Requena**, Santiago de Compostela, Changchun: Probing structural differences between PrPC and PrPSc by surface nitration and acetylation (PPo1-24)  

13:30-15:30 Mozart 1-3
WP 2: Epidemiology & Risk Assessment (Chair: L. Schonberger, J. Langeveld)
WP2-1 Giuseppe Ru, Torino: Animal TSEs - Epidemiological surveillance of potentially zoonotic diseases
WP2-2 Robert G. Will, Edinburgh: Human TSEs - Epidemiological surveillance with regard to a zoonotic potential of animal TSE: opportunities and limitations

Selected Abstracts
WP2-3 Sandra McCutcheon, Fiona E. Houston, Anthony R. Alejo-Blanco, Christopher de Wolf, Boon Chin Tan, Anthony Smith, Nora Hunter, Valerie S. Hornsey, Ian R. MacGregor, Christopher V. Prowse, Marc Turner, Jean C. Manson, Edinburgh, Glasgow, Compton: All clinically relevant components, from prion infected blood donors, can cause disease following a single transfusion (Ppo4-20)
WP2-4 Chris Plinston, Nora Hunter, Jim Foster, Patricia Hart, Jean C. Manson and Rona M. Barron, Edinburgh: Assessing the risk of sheep BSE transmission to humans (Ppo3-8)
WP2-5 Torsten Seuberlich, Florian Lörtischer, Ilias G. Bouzalas, Anna Oevermann, Jan P.M. Langeveld, Chrysostomos I. Dovas, Maria Papanastassopoulou, Andreas Zurbriggen, Berne, Thessaloniki, Lelystad: A Distinct Proteinase K Resistant Prion Protein Fragment Challenges the Diagnosis of Prion Diseases in Goats (Ppo8-43)
WP2-6 Takashi Yokoyama, Kentaro Masujin, Mary Jo Schmerr, Shu Yujing, Hiroyuki Okada, Yoshifumi Iwamatsu, Morikazu Imanura, Yuichi Matsuura, Yuichi Murayama, Shirou Mohri, Ames, IO: Intra- and inter-species prion transmission results in selection of sheep scrapie strains (Ppo3-21)

15:30-16:00 Coffee Break

16:00-18:00 Europasaal

WP3: Diagnosis, Therapy and Decontamination (Chair: J. Collinge, P. Gambetti)
WP3-1 Neil Cashman, Vancouver: Update on diagnostics
WP3-2 Gianluigi Forloni, Milan: New antiprion compounds and PrP’s role in Aβ toxicity
WP3-3 Michael Beekes, Berlin: Update on decontamination: Prions as an informative paradigm for broad-range disinfection of surgical instruments

Selected Abstracts
WP3-5 Christine F. Farquhar, Simon Cumming, Fraser Laing, Irene McConnell, Marc L. Turner and Jean C. Manson, Edinburgh: Intervention with Pentosan Polysulphate and Agent Clearance in a Murine Model of TSE Contaminated Transfusion (Ppo8-25)

16:00-18:00 Mozart 1-3

WP 4: Pathogenesis and Early Disease (Chair: D. Harris, G. Telling)
WP4-1 Lorenzo González, Penicuik: Neuroinvasion revisited: scrapie
WP4-2 Martin Groschup, Insel Riems: Neuroinvasion revisited: BSE
WP4-3 Giovanna R. M. Mallucci, Leicester: Synaptic dysfunction
Selected Abstracts

WP4-4 Joel C. Watts, Kurt Giles, Stanley B. Prusiner, San Francisco, CA: Reciprocal relationship between Shadoo and PrPSc in prion disease (Ppo3-5)

WP4-5 Caroline Lacroux, Leonor Orge, Sylvie L Benestad, Vincent Beringue, Claire Litaise, Stéphanie Simon, Hugh Simmons, Séverine Lugan, Fabien Corbière, Pierrette Costes, Nathalie Morel, François Schelcher, Olivier Andréoletti, Toulouse, Lisboa, Oslo, Jouy-en-Josas, Gif sur Yvette, Addlestone: Atypical/Nor98 scrapie infectivity in sheep peripheral tissues (Ppo3-17)

18:00-18:15 Europasaal

CJD-F: Supporting people affected by Prion Diseases the world over (sponsored by the Alliance Biosecure Foundation)
Florence Kranitz and Suzanne Solvyns, co-chairs CJD International Support Alliance (CJDISA)

18:00-18:30 Poster Viewing
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19:30 Concert Reception (chamber concert by invitation by the Province & City of Salzburg, preceded by cocktails, all included in the Registration) in Residenz, Residenzpl. 1 (please carry your badge)
Friday, Sept. 10:

8:30-9:30 Europasaal

**PP 2 Plenary Lecture** (Chair: Y. Chernoff)

*Stephen M. Strittmatter*, New Haven, CT: Prion Protein Interaction with Amyloid-β Oligomers of Alzheimer’s Disease

9:30-12:00 Europasaal

**SP 2 Symposium: Synthetic Prions** (Chair: J. Manson, D. Riesner)

**SP2-1 Ina Vorberg**, Munich: Life cycle of cytosolic prions

10:00-10:30 Coffee Break

**SP2-2 Surachai Supattapone**, Hanover, NH: Role of non-protein cofactors in generating infectivity

**SP2-3 Ilia V. Baskakov**, Baltimore, MD (partly self-sponsored): Synthetic hamster prions

**SP2-4 Jiyan Ma**, Columbus, OH: Generating highly infectious synthetic mouse prions

12:00-12:30 Europasaal

**HTP – Hot topics session** (Chair: U. Agrimi, I. Baskakov)

**HT1 Benoît VANDERPERRE, Antanas STASKEVICIUS, Guillaume TREMBLAY, Xavier ROUCOU**, Sherbrooke: Alternative PrP (AltPrP): a novel cryptic out-of-frame polypeptide encoded by Prnp in higher mammals


12:30-13:30 Lunch Break with Poster Viewing

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13:30-15:30 Mozart 1-3

**WP 5: PrP Function and Cell Biology, Pathogenesis** continued

(Chair: O. Andreoletti, H. Schätzl)

**WP5-1 David A. Harris**, Boston MA: Subversion of PrP function as a toxic mechanism

Selected Abstracts

WP5-3 Emiliano Biasini, Jessie A. Turnbaugh, Tania Massignan, David A. Harris, Boston, MA: The toxic effect of a mutant prion protein is cell-autonomous, but can be suppressed in trans by wild-type prion protein (Ppo6-8)


WP5-5 Zaira E. Arellano Anaya, Jimmy Savistchenko, Véronique Massonneau, Caroline Lacroux, Olivier Andréoletti, Didier Vilette, Toulouse: Recovery of small infectious PrPres aggregates from prion-infected cultured cells (Pp1-13)

WP5-6 Barry M. Bradford, Alison S. Marshall, Deborah A. Brown, Dorothy J. Kisielewski, Nadia L. Tuzi, Pedro Piccardo, Alan Clarke, V. Hugh Perry, Jean C. Manson, Edinburgh, Rockville, MD, Cardiff, Southampton: Inducible Neuronal PrP Knockout Mice Reveal Potential Therapeutic Window for TSE Intervention (Ppo5-11)

13:30-15:30 Europasaal

WP 6: Strains & Transmission (Chair: J. Castilla, M. Groschup)
WP6-1 Charles Weissmann, Jupiter, FL: Darwinian evolution of prions (45’)
WP6-2 Gerald Baron, Hamilton, MA: De novo prion formation from recombinant mouse PrP

Selected Abstracts
WP6-3 Jae-II Kim, Ignazio Cali, Krystyna Surewicz, Qingzhong Kong, Gregory J. Raymond, Ryuichiro Atarashi, Brent Race, Liuting Qing, Pierluigi Gambetti, Byron Caughey, Witold K. Surewicz, Cleveland, OH, Hamilton, MA: Mammalian Prions Generated from Bacterially Expressed Prion Protein in the Absence of any Mammalian Cofactors (Pp2-28)
WP6-4 Sina Ghaemmaghami, Hoang-Oanh B. Nguyen, Joel C. Watts, David Colby, Shigenari Hayashi, Stanley B. Prusiner, San Francisco, CA: Biological adaptation of synthetic prion strains (Pp2-5)
WP6-5 Marcelo A. Barria, Glenn C. Telling, Pierluigi Gambetti, James A. Matrianni, Claudio Soto, Houston, TX, Lexington, KY, Cleveland, OH, Chicago, IL: Generation of a novel form of human PrPSc by inter-species transmission of cervid prions (Pp2-27)

15:30-16:00 Coffee Break

16:00-18:00 Mozart 1-3

WP 7 Genetics, Varia (Chair: G. Mallucci, M. Pocchiari)
WP7-1 Ruth Gabizon, Jerusalem: Models of genetic TSEs
WP7-2 John Collinge, London: Acquired genetic protection in kuru

Selected Abstracts
WP7-4
WP7-5
Gian Mario Cosseddu, Michele Di Bari, Philip Steele, Francesca Chianini, Luigi De Grossi, Umberto Agrimi, Marta Vascellari, Irini Fragkiadaki, Franco Mutinelli, Gabriele Vaccari, Romolo Nonno, Rome, Penicuik, Padova: Prion detection in tissues and body fluids of sheep affected by scrapie: a comparison between PMCA, Western-blot and bioassay (Ppo3-34)

WP7-6

16:00-18:00 Europasaal
WP 8: Blood safety: vCJD in human and non-human primates, and "transmissibility" in other protein misfolding diseases [sponsored by the Alliance Biosecure Foundation (FABS), the International Plasma Fractionation Association (IPFA), and the Laboratoire Français du Fractionnement et des Biotechnologies (LFB)] (Chair: Paul Brown and Jean-Philippe Deslys)
WP 8-1 Robert G. Will, Edinburgh: Current status of blood related variant Creutzfeldt-Jakob Disease
WP 8-2 Paul W. Brown, Fontenay-aux-Roses: Primate blood studies in Squirrel monkeys (Baxter)
WP 8-3 Emmanuel Comoy, Fontenay-aux-Roses: Primate blood studies in Cynomolgus monkeys (CEA)
WP 8-4 Lary Walker, Atlanta GA: Prion-like induction of Alzheimer-type proteopathy in transgenic mice
WP 8-5 Jean-Philippe Deslys, Fontenay-aux-Roses: Protein misfolding diseases, from transmissibility to inducibility

18:00-18:15 Europasaal
General Assembly, NeuroPrion Association

18:00-18:30 Poster Viewing
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From 19:30 Gala Dinner (by special invitation to be purchased, not included in the Registration) at the St. Peter Keller (St. Peter Bezirk 1/4), the oldest restaurant of Europe (see http://www.haslauer.at)
**Saturday, Sept. 11: Joint Sessions with the XVIIth International Congress of Neuropathology (ICN 2010)**

9:00-10:00 Europasaal

**P 1 Joint Plenary Lecture Prion & ICN (Chair: H. Budka)**

*V. Hugh Perry*, Southampton: The contribution of systemic inflammation to neurodegeneration in protein misfolding diseases

10:00-10:30 Coffee Break

10:30-12:30 Europasaal

**S1 (Joint Symposium Prion & ICN): Key Mechanisms in Neurodegeneration (Chair: H. Lassmann, T. Hedley-White)**

*S1-1 Pierluigi Nicotera*, Bonn: Synaptic damage and neurodegeneration

*S1-2 George Perry*, San Antonio TX: Oxidative stress and mitochondrial injury

*S1-3 Jeroen J. Hoozemans*, Amsterdam: Endoplasmic reticulum stress

*S1-4 Keiji Tanaka*, Tokyo: Impairment of proteolytic homeostasis as cause of neurodegeneration

12:30-13:30 Lunch Break with Poster Viewing

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13:30-17:00 Europasaal

**S2 (Joint Symposium Prion & ICN): Disease Typing in Transmissible and Non-Transmissible Dementias (Chair: J. W. Ironside, Isidre Ferrer)**

*S2-1 Olivier Andreoletti*, Toulouse: Biological diversity of TSE agents: the strain typing puzzle

*S2-2 Martin Jeffrey*, Edinburgh: Neuropathology of animal Prion diseases: toxic effects of PrPd, relationships with strain and clinical disease

*S2-3 Pierluigi Gambetti*, Cleveland OH: Typing of human prion diseases

*S2-4 Gabor Kovacs*, Vienna: Neuropathological concepts in typing of human non-transmissible dementias

15:30-16:00 Coffee Break

*S2-5 David Prvulovic & Harald Hampel*, Frankfurt: Genetic, biochemical and neuroimaging markers in preclinical and clinical Alzheimer's disease - current state and future perspectives

*S2-6 Bruno Dubois*, Paris: New concepts to categorize and diagnose dementias

17:00-17:30 Europasaal

**PRION Closing Ceremony**

Including
Announcement of Poster Prize winners

And

Announcement of the grants awarded for the 2010 call by the Alliance Biosecure Foundation,

The fourth call (total amount granted 400,000 euros) reflects Founders’ (1) belief that both basic and applied Research are needed to achieve a better understanding of biological risk. The independent Scientific Board, ensuring excellence of the project selection process, gathers internationals experts and is managed by two co-presidents:

-- Pr Paul BROWN, NIH (USA), Former Senior Investigator
-- Dr Jean-Philippe DESLYS, CEA (France), Coordinator of the NeuroPrion Network

(1) Alliance BioSecure Founders: LFB, Baxter, MacoPharma, STERIS, EFS, INTS, Albihades Provence, FFDSB, UNDSB

17:30-19:00 Europasaal

**KN Joint Key Note Lecture Prion & ICN (Chair: A. Perry)**

Eckhart Altenmüller, Hannover: Mozart against dementia: Music as motor of neuroplasticity

From 19:00 Foyer

**PRION Farewell Party** (jointly with ICN 2010 Welcome Party, included in the Registration), including rustic buffet dinner and special music intervention
Poster Presentations

Posters are on display during the whole meeting
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Poster presenters are kindly asked to be available at their poster during dedicated Poster Viewing times for on-site discussion (lunch breaks, and 18:00-18:30 on Thursday and Friday).

**PPo1 Protein Misfolding**

**PPo1-1**
Exposure of Protein Core in the Human Prion Protein H187R Mutant
Linghao Zhong, Mont Alto PA

**PPo1-2**
A Vertically Transmissible Amyloid Proteinopathy (Prionoid) in Bacteria
Rafael Giraldo, M. Elena Fernández-Tresguerres, Susana Moreno-Díaz de la Espina, Fátima Gasset-Rosa, Madrid

**PPo1-3**
Design and syntheses of peptides focusing on detection of the structural change of prion proteins
Kiyoshi Nokihara, Akiyoshi Hirata, Kazuo Kasai, Shunsuke Yajima, Takafumi Ohyama, Takashi Yokoyama and Shiro Mohri, Kyoto, Ibaraki, Tokyo

**PPo1-4**
Role of Polybasic Domains in Prion Propagation
Michael B. Miller, James C. Geoghegan, Surachai Supattapone, Hanover NH

**PPo1-5**
Spontaneous amyloidosis in mice expressing anchorless prion protein

**PPo1-6**
Molecular interactions between prions as seeds and recombinant prion proteins as substrates resemble the biological interspecies barrier in vitro
L. Luers, G. Panza, D. Riesner, D. Willbold and E. Birkmann, Düsseldorf, Jülich

**PPo1-7**
Studies of PrP/Polyanion Interactions in Infectious Prions Generated by PMCA
Justin Piro, James Geoghegan, Surachai Supattapone, Hanover NH

**PPo1-8**
Insertion of glutamines into the »rigid loop« promotes PrP conversion
Matevž Avbelj, Iva Hafner-Bratkovic, Jernej Gašperšič and Roman Jerala, Ljubljana

**PPo1-9**
Study of the molecular mechanism responsible of the conformational changes induced by E200K and D202N pathological PrP mutation.
PPo1-10
Insights into Prion Protein Stability
Federico Benetti, Luca Pastorino, Francesco Attanasio, Enrîco Rizzarelli, Giuseppe Legname, Trieste, Catania

PPo1-11
An investigation into the subcellular localisation of co-factors that stimulate prion protein conversion
James F. Graham, Sonya Agarwal, Dominic Kurian, Louise Kirby, Teresa J.T. Pinheiro, Andrew C. Gill, Edinburgh, Compton, Coventry

PPo1-12
Enantiospecific Elimination of Prion by Poly-D-lysine: H2H3 Domain Under the Spotlight
Zhou XU, Stéphanie PRIGENT, Franck MOUTHON, Emmanuel COMOY, Human REZAEI, Jean-Philippe DESLYS, Fontenay-Aux-Roses, Jouy-en-Josas

PPo1-13
Recovery of small infectious PrPres aggregates from prion-infected cultured cells
Zaira E. Arellano Anaya, Jimmy Savistchenko, Véronique Massonneau, Caroline Lacroux, Olivier Andréoletti and Didier Vilette, Toulouse

PPo1-14
PRION PROTEIN INTERACTION WITH LOW MOLECULAR WEIGHT HEPARIN.
Tuane C. R. G. Vieira, Mariana M. P. B. Gomes, Daniel P. Reynaldo, Marcius M. S. Almeida, Yraima Cordeiro and Jerson L. Silva, Rio de Janeiro

PPo1-15
Conversion of Syrian hamster prion protein to beta oligomer and fibril forms under physiological pH conditions.
Valentyna V. Semenchenko, Trent C. Bjorndahl, Xuehui Liu, Guo-Ping Zhou, Fozia Saleem, Sandipta Acharya, Adina Bujold, Connie Sobsey, David S. Wishart, Edmonton

PPo1-16
Lipopolysaccharide Interacted with Prion Protein and Converted it into a b-sheet-rich Isoform Resistant to Proteinase K
Ametaj B. N., Saleem F., Semenchenko V., Sobsey C., Wishart D. S., Edmonton

PPo1-17
Propagating artificial amyloid strains of recombinant Human Prion Protein with mutations in position 129
Sofie Nyström, Peter Nilsson, Per Hammarström, Linköping

PPo1-18
In vivo Transmission of Type-2 Diabetes by a prion-like mechanism
Natalia Salvadores, Diego Morales-Scheihing and Claudio Soto, Houston TX

PPo1-19
Oxidation of Helix-3 methionines precedes the formation of PK resistant PrPSc
Tamar Canello, Katy Frid, Ronen Gabizon, Silvia Lisa, Assaf Friedler, Jackob Moskovitch, Maria Gasset, Ruth Gabizon, Jerusalem, Madrid, Lawrence KS

PPo1-20
Polymorphism/species specific Protein Misfolding Cyclic Amplification (PMCA) using PrPC from cell lines expressing different full length PrP variants.
Jan Priem, Kirti Banwari, Fred G. van Zijderveld, and Alex Bossers, Lelystad

PPo1-21
Structural investigation of PrPc / PrPsc conversion using MD simulations and X-Ray
Membrane permeabilization by purified soluble oligomers of prion protein.
Sylvie Noinville, Jean-François Chich, Céline Chapuis, Céline Henry, Human Rezaei, Jouy-en-Josas

Types or Strains – what classifies Prion Diseases?
Wiebke M. Wemheuer, Sylvie L. Benestad, Arne Wrede, Wilhelm E. Wemheuer, Tatjana Pfänder, Bertram Brenig, Walter J. Schulz-Schaeffer, Göttingen, Oslo

Probing structural differences between PrPC and PrPSc by surface nitration and acetylation
Binbin Gong, Adriana Ramos, Jana Alonso & Jesús R. Requena, Santiago de Compostela, Changchun

Further characterization of flexible regions of PrPSc by limited proteolysis
Ester Vázquez Fernández, Gustavo Sajnani, Adriana Ramos & Jesús R. Requena, Santiago de Compostela

Characterization of Mutant Prion Proteins Extracted from the Brains of Transgenic Mice
Laura Tapella, Matteo Stravalaci, Emiliano Biasini, Marco Gobbi and Roberto Chiesa, Milan

Structural and Physiological Aspects of PrP Interaction with RNA Molecules

The Oligomerization Properties of Prion Protein Are Restricted to the H2H3 Domain
Stéphanie Prigent, Nesrine Chakroun, Cécile Dreiss, Sylvie Noinville, Céline Chapuis, Miquel Adrover, Kris Pauwels, Cesira de Chiara, Zhou Xu, Annalisa Pastore, Franca Fraternali2 and Human Rezaei, Jouy-en-Josas, London, Palma de Mallorca, Fontenay-aux-Roses

Exploitation of PrP misfolding epitopes in cancer immunotherapy
Li Li, Alan Huang, Neil R. Cahsman, Vancouver BC

Prion protein residue substitution in a steric zipper site leads to aggregation in vivo
C. Sigurdson, S. Joshi-Barr, C. Bett, O. Winson, G. Manco, P. Schwarz, S. Hornemann, T. Rülicke, K. Wüthrich, and A. Aguzzi, La Jolla, Zürich, Vienna

Amyloid features and neuronal toxicity of mature prion fibrils are highly sensitive to high pressure
Driss El Moustaine, Veronique Perrier, Isabelle Acquatella, Valeriý G. Ostapchenko, Ilia V. Baskakov, Reinhard Lange and Joan Torrent, Montpellier, Paris, Baltimore MD

A Pharmacological Chaperone for the Structured Domain of Human Prion Protein
Andrew J. Nicoll, Clare R. Trevitt, M. Howard Tattum, Emmanuel Risse, Emma Quaterman, Amauris Avila Ibarra, Graham S. Jackson, Richard B. Sessions, Mark Farrow, Jonathan P. Waltho, Anthony R. Clarke, and John Collinge, London, Sheffield, Bristol

Is a species specific Heparan Sulfate sequence the infectious agent in prion related disease?
PPo1-34
Novel PrP epitope modulating conformational change from PrPC to PrPSc
Hideyuki Hara, Yuko Okemoto-Nakamura, Fumiko Shinkai-Ouchi, Yoshio Yamakawa, Ken’ichi Hagiwara, Tokyo

PPo1-35
Sequence-Dependent Prion protein Misfolding and Neurotoxicity
Jonatan Sanchez-Garcia, Yan Zhang, Diego Rincon-limas and Pedro Fernandez-Funez, Gainesville FL

PPo2 Natural and Experimental Strains

Ppo2-1
Origins, selection and evolution of experimental TSE strains
Robert A. Somerville, Edinburgh

Ppo2-2
Mouse-adapted scrapie strains 139A and ME7 overcome species barrier to induce experimental scrapie in hamsters and changed their pathogenic features
Qi Shi, Bao-Yun Zhang, Chen Gao, Jin Zhang, Hui-Ying Jiang, Xing-Sheng Hou, Jun Han, Xiao-Ping Dong, Beijing

Ppo2-3
Structural comparisons of full-length PrPSc amyloid and recombinant PrP(23–230) amyloid corroborate differences in biological activity

Ppo2-4
Neuropathological and molecular characterization of rabbit in vitro adapted BSE upon inoculation in bovine PrP transgenic mouse model
Vidal E., Fernández-Borges N., Marquez M., Fondevilla D., Torres J.M., Pintado B., Pumarola M., Castilla J., Barcelona, Derio, Bilbao, Madrid

Ppo2-5
Biological adaptation of synthetic prion strains
Sina Ghaemmaghami, Hoang-Oanh B. Nguyen, Joel C. Watts, David Colby, Shigenari Hayashi and Stanley B. Prusiner, San Francisco CA

Ppo2-6
Molecular Characterisation of Seven Austrian BSE Isolates: two L-type Cases and a special C-type Case.
Jan P.M. Langeveld, Jo H.F. Erkens, Jorg G. Jacobs, Alex Bossers, Ines Rammel, Hermann Schildorfer, Lelystad, Mödling

Ppo2-7
Biochemical and biophysical characterization of different CWD isolates
Martin L. Daus, Michael Beekes, Berlin

Ppo2-8
Co-infecting prion strains compete for a limiting cellular resource
Jason C. Bartz, Jacob I. Ayers, Charles R. Schutt, Anthony E. Kincaid, and Ronald A. Shikiya, Omaha NE

Ppo2-9
Significance of murine scrapie strains: ME7 and 22a
Sílvia Sisó, Francesca Chianini, S. Hamilton, SL. Eaton, Y Pang, HW Reid, MP Dagleish, P. Steele, J. Finlayson, Stuart Martin, Martin Jeffrey, Lorenzo González, Penicuik
Ppo2-10
Conformational Stability of Prion Strains
Charles R. Schutt and Jason C. Bartz, Omaha, NE

Ppo2-11
Histopathological analysis of TgOvPrP4 mouse brains infected with 12 isolates of French atypical scrapie
Anna Benacskik and Thierry Baron, Lyon

Ppo2-12
Limiting PMCA Amplification of Prion Strains
Ronald A. Shikiya, Jason C. Bartz, Omaha NE

Ppo2-13
DISTRIBUTION OF PATHOLOGICAL FORM OF PRION PROTEIN IN BRAINSTEM SAMPLES FROM CASES OF CLASSICAL AND ATYPICAL BSE
Miroslaw P. Polak, Magdalena Larska, Jerzy Rola, Jan F. Zmudzinski, Pulawy

Ppo2-14
L-Type and Epizootic BSEs: Playing Cat and Mouse

Ppo2-15
Molecular Prion Protein Typing in Atypical/Nor98 and Classical Scrapie Affected Transgenic Mice
Dorothea R. Götte, Ingrid Kohler, Sylvie L. Benestad, Hubert Laude, Andreas Zurbriggien, Torsten Seuberlich, Berne, Oslo, Jouy-en-Josas

Ppo2-16
EFFECT OF PrP GENOTYPE AND ROUTE OF INOCULATION ON THE ABILITY OF DISCRIMINATORY METHOD TO DISTINGUISH SCRAPIE FROM SHEEP BSE
Sergio Migliore, Elena Esposito, Laura Pirisinu, Michele Di Bari, Claudia D’Agostino, Barbara Chiappini, Michela Conte, Gabriele Vaccari, Francesco Giordani, Luigi De Grossi, Umberto Agrimi and Romolo Nonno, Roma

Ppo2-17
Atypical H-type BSE infection in Bovine-PrP Transgenic Mice let to the Emergence of Classical BSE Strain Features
Juan Carlos Espinosa, Olivier Andréoletti, Caroline Lacroux, Irene Prieto, Patricia Lorenzo, Magdalena Larska, Thierry Baron and Juan Maria Torres, Madrid, Toulouse, Lyon

Ppo2-18
PrP genetics, molecular characterization and biological typing of natural goat scrapie isolates from Greece.
Eirini Fragkiadaki, Romolo Nonno, Loukia Ekateriniadou, Gabriele Vaccari, Eleni Koutsoukos-Chartona, Nektarios Giadinis, Antonis Kominakis, Michele Angelo Di Bari, Elena Esposito, Stefano Marcon, Claudia D’Agostino, Michela Conte, Barbara Chiappini, Emmanuel Rogdakis, Umberto Agrimi, Thessaloniki, Rome, Athens, Larissa

Ppo2-19
Translational control of RML and 22L prions by MAP kinase signaling in GT1-1 cells
Elin K. Allard, Mirjana Grujic, Gilberto Fisone and Krister Kristensson, Stockholm

Ppo2-20
Evaluation of PrPSc aggregation in different prion strains.
Rodrigo Morales, Baian Chen, Rodrigo C. Diaz-Espinoza and Claudio Soto, Houston TX, Beijing

Ppo2-21
DISCRIMINATION OF OVINE BSE FROM CLASSICAL SCRAPIE, CH1641-LIKE AND NOR98 ISOLATES BY A NOVEL CONFORMATIONAL STABILITY ASSAY
Laura Pirisinu, Elena Esposito, Sergio Migliore, Michele Di Bari, Claudia D’Agostino, Paola Fazzi, Luisella Morelli, Umberto Agrimi, Romolo Nonno, Rome
**Ppo2-22**
CWD strain emergence in orally inoculated white-tailed deer (Odocoileus virginianus) with different PRNP genotypes
Camilo Duque-Velasquez, Chad Johnson, Allen Herbst, Judd Aiken and Debbie McKenzie, Edmonton, Madison WI

**Ppo2-23**
Feline Spongiform Encephalopathy in a Cheetah in Germany: Molecular and Immunohistological Analysis
Martin Eiden, Christine Hoffmann, Anne Balkema-Buschmann, Matthias Müller, Katrin Baumgartner, Martin H. Groschup, Greifswald-Insel Riems, Erlangen, Nürnberg

**Ppo2-24**
Spontaneous formation of prions in brain tissue

**Ppo2-25**
Natural Transmission of Cytosolic Prions within Mammalian Cell Populations
Julia Hofmann, Carmen Krammer, Hermann Schätzl, and Ina Vorberg, Munich, Evanston IL, Laramie, WY, Bonn

**Ppo2-26**
Transmission of classical and atypical (L-type) bovine spongiform encephalopathy (BSE) prions to cynomolgus macaques
Fumiko Ono, Yoshio Yamakawa, Minoru Tobiume, Yuko Sato, Harutaka Katano, Kenichi Hagiwara, Iori Itagaki, Akio Hiyaoka, Katuhiko Komatuzaki, Yasunori Emoto, Hiroaki Shibata, Yuichi Murayama, Keiji Terao, Yasuhiro Yasutomi and Tetsutaro Sata, Tsukuba City, Tokyo

**Ppo2-27**
Generation of a novel form of human PrPSc by inter-species transmission of cervid prions
Marcelo A. Barria, Glenn C. Telling, Pierluigi Gambetti, James A. Mastrianni and Claudio Soto, Houston TX, Lexington KY, Cleveland OH, Chicago IL

**Ppo2-28**
Mammalian Prions Generated from Bacterially Expressed Prion Protein in the Absence of Any Mammalian Cofactors
Jae-II Kim, Ignazio Cali, Krystyna Surewicz, Qingzhong Kong, Gregory J. Raymond, Ryuichiro Atarashi, Brent Race, Liuting Qing, Pierluigi Gambetti, Byron Cauhhey, Witold K. Surewicz, Cleveland OH, Hamilton MT

**Ppo2-29**
ATYPICAL SCRAPIE IN GOATS- PATHOLOGICAL AND EPIDEMIOLOGICAL CHARACTERIZATION AND RELEVANCE
Carla Machado, Ana Oliveira, Carla Lima, Paula Tavares, Paula Almeida, Cristina Ochoa, João Silva, Manuel Ramos, Maria José M. Pinto and M. Leonor Orge, Lisboa

**PPo3 Transmission and Pathogenesis**

**Ppo3-1**
Variant CJD strain remains stable after secondary transmission
Matthew T Bishop, Abigail Diack, Enrico Cancellotti, Robert Will, Jean Manson, Edinburgh, Roslin

**Ppo3-2**
Comparison of lesion profiles and PrPsc deposition patterns following inoculation with 301V via oral, intragastric and intracerebral routes
Chris Vickery, Katy Beck, John Spiropoulos, Stephen Hawkins, Weybridge
Ppo3-3
Scant PrP-Sc in the placentae of goats with naturally acquired scrapie
K. I. O’Rourke, D. A. Schneider, D. Zhuang, T. Truscott, Pullman WA

Ppo3-4
White-tailed Deer are Susceptible to Sheep Scrapie by Intracerebral Inoculation
Justin J. Greenlee, Jodi D. Smith, and Robert A. Kunkle, Ames, IA

Ppo3-5
Reciprocal relationship between Shadoo and PrPSc in prion disease
Joel C. Watts, Kurt Giles, and Stanley B. Prusiner, San Francisco, CA

Ppo3-6
Early decline of LamR1+ blood cell counts in macaques orally dosed with the bovine spongiform encephalopathy (BSE)-inducing agent
Barbara Yutzy, Walter Schulz-Schaeffer, Kay-Martin Hanschman, Julia Kress, Cheick Coulibaly, Uwe Hahmann, Pär Bierke, Gerhard Hunsmann, Johannes Löwer, and Edgar Holznagel, Langen, Göttingen, Stockholm

Ppo3-7
Prion Transmission from Cervids to Humans Is Strain-dependent
Qingzhong Kong, Shenghai Huang‡, Fusong Chen, Michael Payne, Pierluigi Gambetti, and Liuting Qing, Cleveland, OH

Ppo3-8
Assessing the risk of sheep BSE transmission to humans
Chris Plinston, Nora Hunter, Jim Foster, Patricia Hart, Jean C. Manson and Rona M. Barron, Edinburgh

Ppo3-9
Potential of cell substrates used for production of biologics to propagate transmissible spongiform encephalopathy (TSE) agents: 5-year update

Ppo3-10
Analysis of Faecal Samples from Sheep naturally infected with Scrapie for PrPSc using an Ultrasensitive in vitro Amplification Method.

Ppo3-11
Blood Transmission Experiments in Primates: Squirrel Monkeys (the Baxter study)

Ppo3-12
VLA Scrapie Endemic Nucleus Flock (RECTORY)
Hugh A Simmons, Mike D Dawson, Addlestone

Ppo3-13
Transcriptome Analyses of Bovine Spongiform Encephalopathy
Y. Tang, W. Xiang, H. Kretzschmar, O. Windl, New Haw, Munich

Ppo3-14
Oral Secretion of Prions in Sheep Naturally Exposed to Scrapie
Kevin C. Gough, Ben C. Maddison, Claire A. Baker, Helen C. Rees, Linda A. Terry, Leigh Thorne and Susan J. Belworthy, Nottingham, Leicester, Addlestone
Ppo3-15
Effects of Solution Chemistry on Prion Protein Adsorption to Soil Minerals
SHANNON L. BARTELT-HUNT, SAMUEL E. SAUNDERS, QI YUAN, JASON C. BARTZ, Omaha, NE

Ppo3-16
Down regulation of PrPc expression in CAD5 cells significantly limits but does not prevent formation of PrPte
Martin Panigaj, Olga Janouskova, Karel Holada, Praque

Ppo3-17
Atypical/Nor98 scrapie infectivity in sheep peripheral tissues
Caroline Lacroux, Leonor Orge, Sylvie L Benestad, Vincent Beringue, Claire Litaise, Stéphanie Simon, Hugh Simmons, Séverine Lugan, Fabien Corbière, Pierrette Costes, Nathalie Morel, François Schelcher and Olivier Andréoletti, Toulouse, Lisboa, Oslo, Jouy-en-Josas, Gif sur Yvette, Addlestone

Ppo3-18
A possible case of maternal transmission of the BSE agent within captive cheetah affected with feline spongiform encephalopathy
Anna Bencsik, Sabine Debeer, Thierry Petit, Thierry Baron, Lyon, Les Mathes

Ppo3-19
Detection of CWD prions in salivary and urinary tissues of deer: potential mechanisms of pathogenesis and prion shedding
Nicholas J. Haley, Candace K. Mathiason, Glenn C. Telling, and Edward A. Hoover, Fort Collins CO, Lexington KY

Ppo3-20
Transmission and adaptation of chronic wasting disease to North American voles
Christina M. Carlson, Jay R. Schneider, Dennis M. Heisey, Joel A. Pedersen, and Christopher J. Johnson, Madison WI

Ppo3-21
Intra- and inter-species prion transmission results in selection of sheep scrapie strains
Takashi Yokoyama, Kentaro Masujin, Mary Jo Schmerr, Shu Yujing, Hiroyuki Okada, Yoshifumi Iwamurai, Morikazu Imamura, Yuichi Matsura, Yuichi Murayama, Shirou Mohri, Tokyo, Ames IA

Ppo3-22
Detection of Environmentally Associated PrPSc on a Farm with Endemic Scrapie
Ben C. Maddison, Claire A. Baker, Helen C. Rees, Linda A. Terry, Leigh Thorne, Susan J. Belworthy and Kevin C. Gough, Leicester, Addlestone, Nottingham

Ppo3-23
A common strain of agent is present in variant CJD cases from five different countries
Abigail B Diack, Robert G Will, Jean-Philippe Brandel, Stephane Haik, Fabrizio Tagliavini, Cornelia Van Duijn, Erniyas D Belay, Wun-Ju Shieh, Pierluigi Gambetti, Lawrence B Schonberger, Jean C Manson, Roslin, Edinburgh, Paris, Milano, Rotterdam, Atlanta GA, Cleveland OH

Ppo3-24
Fluid homeostasis is altered in sheep with scrapie
Garza MC, González L, Badiola JJ, Jeffrey M, Sisó S
Zaragoza, Penicuik

Ppo3-25
Transmission of TSEs to transgenic mice overexpressing ovine PrP(ARR)

Ppo3-26
Identification of renal origin for CWD urinary prion excretion in deer
Davis M. Seelig, Nicholas J. Haley, Jan P. Langeveld, Edward A. Hoover, Fort Collins, CO, Lelystad.
Ppo3-27
Clint I-mediated clathrin-dependent retrograde transport is involved in PrPSc trafficking in Neuro2a mouse neuroblastoma cells
Takeshi YAMASAKI, Akio SUZUKI and Motohiro HORIUCHI, Sapporo

Ppo3-28
A cell culture based model to simulate PrPSc infection in non-human primates

Ppo3-29
Reaction of complement factors differs with prion strains in vitro and in vivo
Rie Hasebe, Motohiro Horiuchi, Byron Caughey, Sapporo, Hamilton, MT

Ppo3-30
Immunohistochemical and biochemical characteristics of BSE and CWD in experimentally infected European red deer (Cervus elaphus elaphus)
Stuart Martin, Martin Jeffrey, Lorenzo González, Silvia Sisó, Hugh Reid, Philip Steele, Mark Dagleish, Michael Stack, Melanie Chaplin, John Spiropoulos, Marion Simmons, Wilfred Goldman, Aru Balachandran, Penicuik, Ottawa, Roslin

Ppo3-31
Inhibitors of gastric acid secretion increase the risk of prion infection in mice
Tom C. Martinsen, Sylvie L. Benestad, Torfinn Moldal, Kristin M. Aasaroed, Helge L. Waldum, Trondheim, Oslo

Ppo3-32
NERVOUS DISSEMINATION OF BSE IN ORALLY INFECTED GOATS
Frédéric Lantier, Christine Hoffmann, Patricia Berthon, Susanne Freyse, Isabelle Lantier, Anne Balkema-Buschmann, Christelle Rossignol, Kerstin Tauscher, Hervé Le Roux, Francis Barillet, Olivier Andréoletti, Martin H Groschup, Nouzilly, Riems, Toulouse

Ppo3-33
The Role of Phagocytic Cells in Resistance to Scrapie in Sheep
Fiona Houston, Glasgow

Ppo3-34
Prion detection in tissues and body fluids of sheep affected by scrapie: a comparison between PMCA, Western-blot and bioassay
Gian Mario Cosseddu, Michele Di Bari, Philip Steele, Francesca Chianini, Luigi De Grossi, Umberto Agrimi, Marta Vascellari, Irini Fragkiadaki, Franco Mutinelli, Gabriele Vaccari, Romolo Nonno, Rome, Penicuik, Legnaro

Ppo3-35
Susceptibility of domestic cats to CWD infection
Amy V. Nalls, Candace K. Mathiason, Nicholas J. Haley, Jeanette Hayes-Klug, Kelly R. Anderson, Davis M. Seelig, Dan S. Bucy, Susan L. Kraft, and Edward A. Hoover, Fort Collins CO

Ppo3-36
Inherited Prion Disease A117V is transmissible to transgenic mice expressing PRNP 117-Valine.
Emmanuel A Asante, Jacqueline M Linehan, Michelle Smidak, Sebastian Brandner, and John Collinge, London

Ppo3-37
Comparative susceptibility of sheep to scrapie and BSE might explain why the BSE agent does not circulate in the European sheep population
Romolo Nonno, Michele Di Bari, Claudia D’Agostino, Francesca Rosone, Stefano Marcon, Elena Esposito, Michela Conte, Barbara Chiappini, Nadia Palazzini, Geraldina Riccardi, Gabriele Vaccari, Luigi De Grossi, Umberto Agrimi, Rome

Ppo3-38
Trafficking of Prion Proteins via Exosomes
Dana K. Thurm, Susanne Krasemann, Lars Redecke, Markus Glatzel, Hamburg

Ppo3-39
Experimental Bovine Spongiform Encephalopathy: Detection of PrPSc in the Small Intestine Relative to Exposure and Age.
Michael J. Stack, Sarah J. Moore, Alberto Vidal-Diez, Mark E. Arnold, Elinor M. Jones, Yvonne I. Spencer†, Paul Webb†, John Spiropoulos, Peter Bellerby, Lisa Thurston, Julie Cooper, Melanie J. Chaplin, Linda A. Davis, Sharon Everitt, Raffaella Focosi-Snyman, Stephen A.C. Hawkins Marion M. Simmons and Gerald A.H. Wells, Addlestone

Ppo3-40
Mother to Offspring Transmission of Chronic Wasting Disease
Candace K. Mathiason, Amy V. Nalls, Kelly Anderson, Jeanette Hayes-Klug, Nicholas Haley and Edward A. Hoover, Fort Collins, CO

Ppo3-41
Resistance of cell substrates to TSE infection
Bacik, I, Kurillova, L, Cervenak, J, Pomeroy, K, Cervenakova, I, Piccardo, P, Gregori, L, Asher, D, Rockville MD

PPo4 Epidemiology and Risk Assessment

Ppo4-1
Robert C. Holman, Ermias D. Belay, Ryan A. Maddox, Ariane M. Folkema, Arialdi M. Minino, Teresa A. Hammett, James J. Sejvar, Kenneth D. Kochanek, Lawrence B. Schonberger, Atlanta, GA, Hyattsville, MD

Ppo4-2
Scrapie in Finnish Goats
Hannele Tapiovaara, Maria Hautaniemi, Liisa Kaartinen, Liisa Sihvonen, Helsinki

Ppo4-3
Human prion diseases in Japan
Kenji Sakai, Ichizo Nozaki, Tsuyoshi Hamaguchi, Moeko Noguchi-Shinohara, Yoiskazu Nakamura, Takeshi Sato, Tetsuyuki Kitamoto, Hidehiro Mizusawa, Nobuo Sanjo, Fumio Moriwaka, Yossei Shiga, Yoshiyuki Kuroiwa, Masatoyo Nishizawa, Takashi Inuzuka, Masatoshi Takeda, Koji Abe, Hiroyuki Murai, Shigeo Murayama, Jun Tateishi, Susumu Shirabe, Ichiro Takumi, Masafumi Harada, and Masahito Yamada, Kanazawa

Ppo4-4
Survival and Limited Spread of TSE Infectivity after Burial
Karen Fernie, Allister Smith and Robert A. Somerville, Roslin

Ppo4-5
The notification of human prion diseases in Brazil from 2005 to 2010
Michele C Landemberger, Cleiton F Machado, Helio R Gomes, Leila Chimelli, Sergio Rosemberg, Ricardo Nitrini, Vilma Regina Martins, Sao Paulo, Rio de Janeiro

Ppo4-6
CJD in CWD endemic provinces in Canada, 1998-2009

Ppo4-7
Ryan A. Maddox, MPH, Robert C. Holman, MS, Ariane M. Folkema, MPH, Pierluigi Gambetti, MD, PhD, Wen-Quan Zou, MD, PhD, Aialdi M. Minino, MPH, Lawrence B. Schonberger, MD, Ermias D. Belay, MD, Atlanta GA, Cleveland, OH, Hyattsville, MD

Ppo4-8
Managing CJD risk in the United Kingdom
Victoria Hall, Dr Nicky Connor, London
Ppo4-9
SURGERY AND POTENTIALLY INVASIVE MEDICAL PROCEDURES UNDERGONE IN DENMARK AND SWEDEN BY PERSONS WITH SPORADIC CJD, LATE IN LIFE, AND CONTROLS
Jesus de Pedro-Cuesta, Ignacio Mahillo-Fernandez, M Cruz, A Rábano, M Calero, H Laursen, P Martínez, K Mølbak, A Siden.
Madrid, Huddinge, Copenhagen

Ppo4-10
TESTS OF MINKS WITH NEUROPATHOLOGICAL SIGNS FOR TRANSMISSIBLE ENCEPHALOPATHY
Sergey S. Rybakov, Alexander A. Yegorov, Asya V. Borisova, Andrey V. Pavlov, Vladimir

Ppo4-11
Powerful tools specifically adapted at the service of Prion research projects
Fabien Aubry, Valérie de Broglie, Jean-Philippe Deslys, Fontenay Aux Roses

Ppo4-12
Long Term Changes in Consumer’s Trust and Purchases of Meat Resulting from BSE Outbreaks in Japan, Canada and the U.S.
Ellen Goddard, Aye Chan Myae, Violet Muringai, Edmonton

Ppo4-13
Alternative Genetic Target of Classical and Atypical Scrapie in the Italian Sheep Population
Giovanna Ciaravino, Gabriele Vaccari, Romolo Nonno, Barbara Chiappini, Michela Conte, Elena Esposito, Stefano Marcon, Luisella Morelli, Paola Fazzi, GianMario Cosseddu, Umberto Agrimi, Gaia Scavia, Rome

Ppo4-14
Dura mater-associated Creutzfeldt-Jakob disease in Italy
Anna Ladogana, Maria Puopolo, Loredana Ingrosso, Susanna Almonti, Vittorio Mellina, Giulio Rosati, Renato Ortu, Orso Bugiani, Fabrizio Tagliavini, Vincenzo La Bella, Federico Piccoli, Maria Valeria Saddi, Salvatore Bruno Murgia, Giorgio Giovanni Bono, Salvatore Castellino, Paolo Fociani, Piero Parchi, Maurizio Pocchiari, Roma, Rieti, Sassari, Milano, Palermo, Nuoro, Varese, Ragusa, Bologna

Ppo4-15
A surprisingly high number of the plaque-like VV sCJD subtype among the Polish sCJD – is there a connection with BASE?
Beata Sikorska, Pawel P. Liberski, Lodz

Ppo4-16
Developing a Simulation Model to Estimate the Size of BSE Epidemic in Canada
Mustafa Al-Zoughool, Tamer Oraby, Daniel Krewski, Ottawa

Ppo4-17
Scrapie control in Italy: which selective breeding strategies will work?
Francesca Baldinelli, Gaia Scavia, Romolo Nonno, Gabriele Vaccari, Giovanna Ciaravino, Marcello Sala, Aline A. de Koeijer, Umberto Agrimi, Thomas J. Hagenaars, Rome, Lelystad

Ppo4-18
Expert Elicitation and Probabilistic Inversion for the Judgment of Prion Disease Risk Uncertainties using the Classical Model, EXCALIBUR and UNIBALANCE
Michael G. Tyshenko, Susie ElSaadany, Tamer Oraby, Shalu Darshan, Willy Aspinall, Angela Catford and Daniel Krewski, Ottawa, Tisbury, Bristol

Ppo4-19
Updated Risk Assessment of Variant Creutzfeldt-Jakob Disease (vCJD) risks for US Blood Recipients
Hong Yang and Steven A. Anderson, Rockville MD
Ppo4-20
All clinically relevant components, from prion infected blood donors, can cause disease following a single transfusion
Sandra McCutcheon, Fiona E. Houston, Anthony R. Alejo-Blanco, Christopher de Wolf, Boon Chin Tan, Anthony Smith, Nora Hunter, Valerie S. Hornsey, Ian R. MacGregor, Christopher V. Prowse, Marc Turner and Jean C. Manson, Edinburgh, Glasgow, Compton

Ppo4-21
The risk of variant Creutzfeldt-Jakob Disease (vCJD) among UK patients with bleeding disorders, known to have received clotting factors linked to donors who subsequently developed vCJD

Ppo4-22
Amyotrophic Leucospongiosis (Miotch Disease) As a Possible Novel Human Prion Disease in Europe: Analysis of the National Surveillance Data on Human Prion Diseases in the Republic of Belarus
Nataliya A. Karyakina, Sergei P. Kapituletz, Daniel Krewski, Greg Paoli, Nikolai N. Poleschchuk, Iosif I. Protas, Michael G. Tyshenko, Ottawa, Minsk

Ppo4-23
Specific Risk Material removal practices: reduce the BSE hazard for human health
Danilo Pitardi, Daniela Meloni, Cristiano Maurella, Dolores Di Vierto, Luca Nocilla, Alfonso Piscopo, Elena Pavolletti, Mauro Negro, Maria Caramelli, Elena Bozzetta, Torino, Agrigento, Vercelli, Mondoví

Ppo4-24
Regulatory challenges posed by variant Creutzfeldt-Jakob disease for blood products and biologics
Luisa Gregori, David Asher and Kitty Pomeroy, Rockville MD

PPo5 Basic Mechanisms of Neurodegeneration and Pathology

Ppo5-1
Deposition of multiple proteins in E200K genetic Creutzfeldt-Jakob disease
Gabor G. Kovacs, Jérémie Seguin, Isabelle Quadrio, Romana Hofibberger, István Kapás, Nathalie Streichenberger, Anne Gaëlle Biacabe, David Meyronet, Raf Sciort, Rik Vandenberghe, Katalin Majtenyi, Thomas Ströbel, Herbert Budka, Armand Perret-Liaudet, Vienna, Budapest, Lyon, Leuven

Ppo5-2
Temporal Kinetics of Prion Protein Accumulation and Its Effect on Neurotransmitters in the Cerebellum of Guinea Pigs Infected with BSE Prion
Shoichi Sakaguchi, Motohiro Horiiuchi, Yoshio Yamakawa, Tetsutarro SATA, and Hidefumi Furuoka, Obihiro, Sapporo, Tokyo

Ppo5-3
Tau protein inhibits tubulin oligomerization induced by prion protein
Krzysztof Nieznanski, Katarzyna M. Osiecka, Hanna Nieznanska, Warsaw

Ppo5-4
Changes In Hsp Gene And Protein Expression In Natural Scrapie Related With Brain Damage
Inmaculada Martín-Butriel, Carmen Serrano, Rosa Boise, Jafer Lyahyai, Icham Filali, Luis Varona, Ane Marcos-Carcavilla, Cristina Acín, Jorge H. Calvo, Magdalena Serrano, Juan J. Badiola, Pilar Zaragoza, Zaragoza, Madrid

Ppo5-5
Cerebellar Granule Neurons Loss and PrPSc Deposition Pattern in Sporadic Creutzfeldt-Jakob Disease: Variation with M129V PRNP Polymorphism and PrPSc Type
Baptiste A. FAUCHEUX, Emilie MORAIN, Vanessa DJOURON, Jean-Philippe BRANDEL, Dominique SALOMON, Veronique SAZDOVITCH, Nicolas PRIVAT, Jean-Louis LAPIANCHE, Jean-Jacques HAUW, Stephane HAIF, Paris
Ppo5-6
Aminoterminally-Truncated Human Prion Protein Fragment hPrP90-231 Forms Intracellular Aggregates and Causes Lysosomal Loss of Impermeability
Stefano Thellung, Alessandro Corsaro, Valentina Villa and Tullio Florio, Genova.

Ppo5-7
Dynamin-related Protein 1 via Protein Phosphatase 2A Regulatory Subunit B Promotes Mitochondrial Fission-mediated Neuronal Apoptosis in Prion Knock-down Cell Line
Yu-Mi Roh, Sang-Gyun Kang, Seung-Bin Cha, Won-Jung Lee, Min-Kyoung Shin, Myoung-Hwan Jung and Han Sang Yoo, Seoul, Edmonton

Ppo5-8
The fate of mutant PrP in human genetic prion disease: linking autophagy and aggresome formation
Lajos László, Gergő Botond, Herbert Budka, Gabor G. Kovacs, Budapest, Vienna

Ppo5-9
Differential gene expression in BSE-inoculated macaques
Ann-Christin Schmädicke, Lisa Gasperini, Dirk Motzkus, Cristiano Corona, Maria Novella Chieppa, Chiara Porcario, Stefano Gustinich, Cristina Casalone, Gabriela Salinas-Riester, Lennart Opitz and Giuseppe Legname, Göttingen, Trieste, Turin

Ppo5-10
Manipulation of endogenous glycosaminoglycans to affect uptake and trafficking of prions in genetic prion disease.
Jeremy M Welton, Laura Ellett, Andrew F Hill, Steven J Collins, Victoria A Lawson, Melbourne

Ppo5-11
Inducible Neuronal PrP Knockout Mice Reveal Potential Therapeutic Window for TSE Intervention.
Barry M. Bradford, Alison S. Marshall, Deborah A. Brown, Dorothy J. Kisielewiski, Nadia L. Tuzi, Pedro Piccardo, Alan Clarke, V. Hugh Perry, Jean C. Manson, Roslin, Edinburgh, Rockville MD, Cardiff, Southampton

Ppo5-12
Mitochondrial dysfunction via differential modulation of mitochondrial fusion/fission proteins in the brains of scrapie-infected mice
Hong-Suc Choi, Jae-Min Oh, Hae-Young Sin, Jae-Kwang Jin, Eun-Kyoung Choi, Richard I. Carp and Yong-Sun Kim, Chuncheon, Staten Island NY

Ppo5-13
Neuron dysfunction is induced by mutated prion protein and reversed by sirtuin activation in C. elegans

Ppo5-14
Alteration of Secretory Protein Trafficking As Possible Pathogenetic Mechanism in Inherited Prion Diseases
Elena Restelli, Susanna Mantovani, and Roberto Chiesa, Milan

Ppo5-15
Enhanced Susceptibility to Kainate-Induced Seizures in a Transgenic Mouse Model of Inherited Creutzfeldt-Jakob Disease
Ilaria Bertani, Mattia Maroso, Susanna Mantovani, Annamaria Vezzani, Roberto Chiesa, Milan

Ppo5-16
Characterization of the properties and trafficking of truncated PrP mutants associated with two different prion diseases
Manuela Pozzoli, Ilaria Bertani, and Roberto Chiesa, Milan

Ppo5-17
A Mutant Prion Protein Causes Impairment of Voltage-Gated Calcium Channels
Assunta Senatoro, Simona Colleoni, Claudia Verderio, Elena Restelli, Susanna Mantovani, Steven Condliffe, Gianluigi Forloni, Michela Matteoli, Marco Gobbi, and Roberto Chiesa, Milan
Ppo5-18
Redox-iron and prion disease pathogenesis
Neena Singh, Ajay Singh, Cleveland OH

Ppo5-19
Generation and Characterization of Transgenic Mice Expressing PrP Mutations Linked to Inherited Creutzfeldt-Jakob Disease and Fatal Familial Insomnia
Susanna Mantovani, Ilaria Bertani, Gianluigi Forloni, and Roberto Chiesa, Milan

Ppo5-20
Immunohistochemical Characterization of BASE Plaques by Confocal Microscopy
Elena Vallino Costassa, Chiara Porcario, Debora Corbellini, Maria N. Chieppa, Alice Z. Perazzini, Tiziana Avanzato, Ferdinando Pulitano, Maria D. Pintore, Barbara Iulini, Cristina Casalone, Cristiano Corona, Turin

Ppo5-21
Proteomic analysis of synaptosomes from patients with sporadic Creutzfeldt - Jakob disease
Martin Nowak, Joanna Gawinecka, Julie Carimalo, Walter Schutz-Schaeffer, Abdul R. Asif, Inga Zerr, Göttingen

Ppo5-22
MicroRNA-146a is Induced in the Brains of Prion Infected Mice and Functions as a Modulator of Microglial Activation
Stephanie A. Booth, Reuben Saba, Rhiannon L.C.H. Huzarewich, Sarah Medina, Kathy Surynicz, Winnipeg

Ppo5-23
CREB-induced microRNAs and implications on neurodegeneration in prion disease
Anna Majer, Kathy J. Surynicz, Sarah J. Medina, Kathy Frost, Stephanie A. Booth, Winnipeg

Ppo5-24
Growth of prion plaques and spongiform aggregates on lipid membranes
Philip J. Robinson and Teresa J.T. Pinheiro, Coventry

Ppo5-25
Subcellular localization of peptidylarginine deiminase 2 and citrullinated proteins in brains of scrapie-infected mice: Nuclear localization of PAD2 and membrane fraction-enriched citrullinated proteins
Byungki Jang, Eun-Young Kim, Hae-Young Shin, Jin-Kyu Choi, Nguyen Du Phuong Thao, Byung-Hoon Jeong, Akihito Ishigami, Naoki Maruyama, Richard J. Carp, Yong-Sun Kim, and Eun-Kyoung Choi, Anyang, Chuncheon, Chiba, Tokyo, Staten Island NY

Ppo5-26
Atypical neuropathological sCJD phenotype with abundant cerebral Kuru-type plaques sparing the cerebellar cortex
Ellen Gelpi, Josep Mª Soler Insa, Elena Martinez- Saez, Jordi Yagüe, Carlos Nos, Raquel Sanchez-Valle, Isidro Ferrer, Barcelona

Ppo5-27
Both Macro- and Microautophagy Contribute to widespread neuronal Degeneration in Hamsters Infected with the Echigo-1 Strain of Creutzfeldt-Jakob disease and Mice infected with the Fujisaki Strain of Geismann-Sträussler-Scheinker disease.
P. Liberski, Beata Sikorska, and Paul Brown, Lodz, Fontenay-aux-Roses

Ppo5-28
Gene expression changes in the medulla oblongata of naturally infected scrapie sheep
Hicham Filali, Inmaculada Martin-Burriel, Frank L. Harders, Luis Varona, Jaber Lyahyai, Martí Pumarola, Juan J. Badiola, Alex Bossers, Rosa Bolea, Zaragoza, Lelystad, Barcelona

Ppo5-29
Neuropathological and biochemical characterization of unusual cases of Creutzfeldt-Jakob disease in young, PRNP 129MM subjects
Moda Fabio, Giaccone Giorgio, Di Fede Giuseppe, Terruzzi Alessandro, Suardi Silvia, Tagliavini Fabrizio, Milano, Bergamo
PP06 Functions and Cell Biology of PrP

Pp06-1
From Agent to Disease - From Macroyclic Lactones to TSEs
Becker, Andreas, Seggau

Pp06-2
Abnormal signaling mediated by laminin in neurons expressing mutant prion proteins
Cleiton F. Machado, Flavio H. Beraldo, Dominique Bourgeon, Vilma R. Martins, São Paulo

Pp06-3
PrPC Localizes to the Nuclear Lamina of Pancreatic Islet and Brain Cells and Interacts with Nuclear Proteins
Alexander Strom, Gen-Sheng Wang, David J. Picketts, Rudolph Reimer, Andreas W. Stake, Fraser W. Scott, Ottawa, Hamburg, Göttingen

Pp06-4
PRION PROTEIN IS A KEY DETERMINANT OF ALCOHOL SENSITIVITY THROUGH THE MODULATION OF N-METHYL-D-ASPARTATE RECEPTOR (NMDAR) ACTIVITY
Baptiste Ménard, Alice Guyon, Vincent Béringue, Nicole Zsürger, Agnès Petit-Paitel and Joëlle Chabry, Valbonne, Jouy-en-Josas

Pp06-5
Transcriptomic analysis highlights time-specific embryonic adaptation of mice to the lack of PrP.

Pp06-6
Mammalian PrP Promotes Prion Formation in Yeast
Yury O. Chernoff, Meng Sun, Carmen Krammer, Ina Vorberg, Atlanta GA, Evanston IL, Bonn

Pp06-7
The cellular prion protein contributes to the sprouting of neurites along neuronal differentiation by controlling actin organization and focal adhesion site dynamics
Damien Loubet, Caroline Dakowski, Elodie Pradines, Sophie Bernard, Callebert Jacques, Mathéa Piétri, Sophie Mouillet-Richard, Jean-Marie Launay, Odile Kellermann and Benoît Schneider, Paris, Basel

Pp06-8
The toxic effect of a mutant prion protein is cell-autonomous, but can be suppressed in trans by wild-type prion protein
Emiliano Biasini, Jessie A. Turnbaugh, Tania Massignan and David A. Harris, Boston, MA

Pp06-9
Rab GDP dissociation inhibitor alpha (GDI) regulates the trafficking of mutant prion proteins to the cell surface
Tania Massignan, Emiliano Biasini, Valentina Bonetto, and David A. Harris, Boston, MA,

Pp06-10
Cellular Prion Protein controls the mRNA expression of pluripotency genes and differentiation in mice embryonic stem cells
Alberto Miranda, Miguel Ángel Ramírez, Eva Pericuesta and Alfonso Gutiérrez-Adán, Madrid

Pp06-11
The PrP-like Shadoo Protein Binds Nucleic Acids
Agnes Lau, David Westaway, Edmonton
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Soluble, fibrillar amyloid-beta oligomers bind to the cellular prion protein and reduce its cell surface expression
Jo V. Humphrey and Nigel M. Hooper, Leeds

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FOCUS ON THE ANTIVIRAL PROPERTIES OF THE CELLULAR PRION PROTEIN PrPC/CD230
Sandrine Alais, Gaëlle Georges, Clarisse Berlioz-Torrent & Pascal Leblanc, Lyon, Paris

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Behavioral abnormalities in prion protein knockout mice
Matthias Schmitz, Catharina Greis, Walter Schulz-Schaeffer, Andre Fischer and Inga Zerr, Göttingen

Ppo6-15
Neurotoxic mutants of the prion protein induce spontaneous ion channel activity
Isaac H. Solomon, James E. Huettner, & David A. Harris, Boston, MA, St. Louis, MO

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The polybasic N-terminal region of the prion protein is essential for its neuroprotective activity
Jessie A. Turnbaugh, Laura C. Westergard, and David A. Harris, Boston, MA, St. Louis, MO

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The role of glycosylation on the cell biology of PrPC
Kayleigh C. Iremonger, Enrico Cancellotti, Jean C. Manson, Edinburgh

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Toxicity in Cerebellar Slice Cultures of Murine Prion Protein with a Deletion of Residues 105-125
Ursula Unterberger, Emiliano Biasini, and David. A. Harris, Boston, MA

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Role of lipid rafts in prion protein metabolism, studied by alteration of the glycosphingolipids content of cultured neurons
L. Botto, D. Cunati, M. Masserini and P. Palestini, Monza

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AltPrP: a novel cryptic out-of-frame polypeptide encoded by Prnp in higher mammals
Benoît Vanderperre, Antanas Staskevicius, Guillaume Tremblay, Xavier Roucou, Sherbrooke

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Keep the balance: the pros and cons of cholesterol for PrPSc propagation
Sabine Gilch, Christian Bach, Ina Vorberg, Hermann M. Schätzl, Munich, Laramie, WY

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Hanna Wolf, Romina Bester, Ann-Katrin Felux, Andrea Graßmann, Kim Dietrich, Hermann Schätzl, and Ina Vorberg, Munich, Laramie WY, Bonn

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Divergent effects of caveolin-1 knock-down on PrPSc accumulation in de novo and persistently infected cells
Andrea Graßmann, Romina Bester, Gloria Lutzny, Hanna Wolf, Kim Dietrich, Hermann Schätzl, and Ina Vorberg, Munich, Laramie WY, Bonn
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GPI Anchored and Anchorless PrPSc Isoforms in Prion Disorders
Michele Fiorini, Kimberly Meade-White, Jan PM Langeveld, Cristina Casalone, Lorenzo Capucci, Bruce Cheesbro, Salvatore Monaco, Gianluigi Zanusso, Verona, Hamilton MA, Lelystad, Turin, Brescia

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PrP knockout zebrafish as a novel tool for in vivo studies of PrP function
Valerie C. Fleisch, Gary Ritzel, Laura Pillay, Adina R. Bujold, Andrew J. Waskiewicz, W. Ted Allison, Edmonton

**Ppo6-27**
N-glycans and Sorting of the Prion Protein in MDCK Cells
Berta Puig, Hermann Altmeppen, Catharina Conrad, Markus Glatzel. Hamburg, Marburg

**Ppo6-28**
Cytoplasmic PrP dysregulates signaling pathways regulating protein synthesis
Rory H. Shott, Catherine Grenier, Guillaume Tremblay, Xavier Roucoul, Luis Schang, Edmonton, Sherbrooke

**Ppo6-29**
Proteomic analysis of N2a Neuroblastoma cell subclones.
Minoru Tobiume, Asuka Kurosawa, Harutaka Katano, Yoshio Yamakawa, Tetsutaro Sata, Tokyo

**Ppo6-30**
Complex cellular signals triggered by PrPs during zebrafish development
Emily Sempou, Edward Málaga-Trillo, Konstanz

**Ppo6-31**
The cellular prion protein prevents oxidative stress-induced autophagic cell death
Jae-Min Oh, Richard I. Carp and Yong-Sun Kim, Gyeonggi-do, Staten Island, NY

**Ppo6-32**
Normal Synovial Fibroblasts Express Both Prion and Shadoo. An Immunofluorescence Colocalization Study
Martin Windsor, David Cullis-Hill, Sydney

**Ppo6-33**
Investigating the role of the Alzheimer’s disease amyloid precursor protein intracellular domain (AICD) in the regulation of PrP expression
Victoria Lewis, Steven J. Collins and Nigel M. Hooper, Melbourne, Leeds

**Ppo6-34**
Effect of prion protein on amyloid plaque deposition in a familial Alzheimer’s disease mouse model
Nigel Hooper, Isobel Whitehouse, Heledd Griffiths, Herbert Baybutt, Debbie Brown, Kate Kellett, Pedro Piccardo & Jean Manson, Leeds, Roslin, Rockville, MD

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**Ppo7-1**
Codon 141 in ovine PRNP gene modulates incubation time in sheep orally infected with BSE.
Boon Chin Tan, Anthony R. Alejo-Blanco, Wilfred Goldmann, Paula Stewart, Andrew C. Gill, James F. Graham, Jean C. Manson and Sandra McCutcheon, Roslin

**Ppo7-2**
Genetic variability in the ovine ribosomal protein SA
ALICE VAN DEN BROEKE, MARIO VAN POUCKE, ALEX VAN ZEVEREN & LUC J. PEELMAN, Ghent

Ppo7-3
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Katayoun Moazami-Goudarzi, Pascal Laurent, Carole Moreno, Sabrina Rodriguez, Edmond-Paul Criqui, Stéphane Chaffaux, Frédéric Lantier, Fabienne Le-Provost, Jean-Luc Villette, Jouy-en-Josas, Castanet Tolosan, NOUZILLY

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Alexandre Dobly, Coralie Renard, Jessica De Sloovere, Riet Geeroms, Stéphanie Durand, Patrick Van Muyle, Dimitri Debrauwère and Stefan Roels, Brussels

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Ppo7-6
The clinicopathological phenotype of genetic CJD due to the E200K mutation in the UK
C. Pennington, R. Knight, Edinburgh

Ppo7-7
Prospect of genetic CJD through analysis of prion protein gene polymorphism of suspected CJD patients (2005-20 in ROK
Su Yeon Kim, Bo-Yeong Choi, Jae Wook Hyeon, Jun Sun Park, Sol Mae Lee, Chae Jin Lee, Beom Jun Kim, Myeong Guk Han and Young Ran Ju, Seoul

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Association of YWHAH, a gene encoding 14-3-3 eta, with sporadic Creutzfeldt-Jakob disease (CJD)
Jisuk Yun, Byung-Hoon Jeong, Young-Jae Park, Yun-Jung Lee, Richard I Carp, Yong-Sun Kim, Gyeonggi-Do, Staten Island, NY

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Sequence Variation of Prion Protein Gene (PRNP) in Korean Cattle, Hanwoo
Jeongmin Lee, Sangho Choi, Inbeen Yim, Hee-Jong Woo, Seoul

Ppo7-10
FREQUENCY OF ALELLE LEUCINE-154 IN SPANISH OVINE BREEDS
Marta Martínez, Concepción López, Dolores Hurtado, Enrique Anadón, Concepción Gómez-Tejedor & Tomás Mayoral, Algete

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A novel mutation I215V in the PRNP gene associated to Creutzfeldt-Jakob disease in two patients with divergent clinical phenotypes
Mercedes Muñoz-Nieto, Neus Ramonet, Ana Polaino, Rafael Hortigüela, Natividad Cuadrado, Marcos Díaz, Jesús de Pedro, José Ramón Ipiens, Miguel Calero, Majadahonda, Huesca

Ppo7-12
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Cristina Acín, José L. Pitarch, Miguel Revilla, David Martín, Maricruz Arnal, Daniel Fernández de Luco, Juan J. Badiola, Zaragoza

Ppo7-13
Genetic analysis of the Shadow of the Prion Protein (SPRN) gene for association with BSE infection in Italian cattle.
Simone Peletto, Maria Grazia Maniaci, Paula Stewart, Silvia Colussi, Paolo Leone*, Wilfred Goldmann and Pier Luigi Acutis, Turin, Roslin, Milan
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PRION SUBTYPES IN SLOVAK GENETIC CJD PATIENTS
Slivarichová D, Remová K, Koščová S, Mitrová E, Bratislava

Ppo7-15
Species barrier and the prion protein gene mutation E200K.
Eva Mitrová, Girma Belay, Dana Slivarichová, Katarína Remová, Dana Palčová, Bratislava

Ppo7-16
The Rarb region of Mmu14 is associated with prion disease incubation time
Julia Grizenkova, Shaheen Akhtar, John Collinge and Sarah E. Lloyd, London

Ppo7-17
Lysine at Position 222 of the Goat Prion Protein (PrP) Interferes with the Binding of the Monoclonal Antibody F99/97.6.1
Maria Mazza, Chiara Guglielmetti, Silvia Colussi, Francesca Martucci, Simone Peletto, Monica Lo Faro, Marianna Pagano, Pier Luigi Acutis, Torino

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Novel truncation mutation of PRNP causes chronic diarrhoea, sensory neuropathy and autonomic failure associated with prion protein deposition in the cerebral blood vessels and small bowel

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A case of Gerstmann-Sträussler-Scheinker disease with a 144 base pair insertion
Anne Vital, Jean-Louis Laplanche, Jean-René Bastard, Pierluigi Gambetti, Claude Vital, Bordeaux, Paris, Cleveland, OH

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Creutzfeldt-Jakob disease with the V203I mutation and M129V polymorphism of the prion protein gene (PRNP) and a 17 kDa prion protein fragment
Young-Jae Park, Byung-Hoon Jeong, Jisuk Yun, Yong-Chul Jeon, Yun-Jung Lee, Han-Jeong Cho, Seok-Ju Park, Dan-I Chung, Juhan Kim, Seung Hyun Kim, Hee-Tae Kim, Eun-Kyoung Choi, Kyung-Chan Choi, Richard I. Carp, Yong-Sun Kim, Gyeonggi-do, Seoul, Chunchoh, Staten Island, NY

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The pathological and pathogenic characteristics in various brain regions from a Chinese patient with G114V genetic CJD
Qi Shi, Bao-Yun Zhang, Chen Gao, Jun Han, Gui-Rong Wang, Cao Chen, Chan Tian, Xiao-Ping Dong, Beijing

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Clinicopathologic characteristics of V180I Creutzfeldt-Jakob disease in Japan
Yasushi Iwasaki, Keiko Mori, Masumi Ito, Masamitsu Nagaoka, Toshiaki Ieda, Tetsuya Kitamoto, Maya Mimuro, Mari Yoshida, Yoshio Hashizume, Oyamada, Yokkaichi, Sendai, Aichi

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Performances of three rapid post mortem tests for active surveillance of TSE in goats
Daniela Meloni, Elsa Manzardo, Maria C. Cavarretta, Simone Peletto, Umberto Agrimi, Jan Langeveldt, Alex Bossers, Silvia Colussi, Pier Luigi Acutis, Francesco Ingravalle, Elena Bozetta, Torino, Roma, Lelystad

Ppo8-2
Dimerization of PrPSc by thienyl pyrimidine compounds trap prion infectivity
Adeline Ayrolles-Torro, Karine Toupet, Joan Torrent, Ilia Baskakov, Guillaume Poncet-Montange, Thibaut Imberdis, Sylvain
Application of Epifluorescence Scanning for Monitoring the Efficacy of Protein Removal by RF Gas-Plasma Decontamination.
Helen C Baxter, Anita C Jones, Robert L Baxter, Edinburgh

Temporal evolution of Creutzfeldt-Jakob disease monitored by 3-Tesla proton magnetic resonance spectroscopy
Koji Fujita, Masafumi Harada, Tatsuhiko Yuasa, Makoto Sasaki, Yuishin Izumi, and Ryuji Kaji, Tokushima, Kamagaya, Morioka

Receptor-Associated Protein (RAP) Inhibits Generation of Disease-associated Prion Protein (PrPd) in Cell Cultures
Larisa Cervenakova, Oksana Yakovleva, Irina Vasilyeva, Sergey Akimov, Irina Mikhailenko, Dudley K. Strickland, Rockville MD, Baltimore MD

Evaluation of a sandwich ELISA for the gamma-isoform of 14-3-3 proteins for laboratory diagnosis of Creutzfeldt-Jakob disease
Yuki Matsui, Katsuya Satoh, Toshiaki Miyazaki, Susumu Shirabe, Ryuichiro Atarashi, Yasufumi Kataoka, Noriyuki Nishida, Fukuoka, Nagasaki, Nagano

Prion diagnostics by single particle counting
Bannach, O., Henke, F., Reinartz, E., Willbold, D., Riesner D., and Birkmann, E., Düsseldorf

Detection and characterization of prions using fluorescent-labeled PrP peptides
Kazuo Kasai, Akiyoshi Hitara, Takafumi Ohyama, Kiyoshi Nokihara, Yuichi Matsuura, Shunsuke Yajima, Takashi Yokoyama, and Shirou Mohri, Ibaraki, Kyoto, Tokyo

A data driven methodology for the determination of novel protein biomarkers in BSE.
Janice B. Barr, David Waddington, Rona M. Barron, Roslin

Liposome-siRNA-Peptide Complexes Protect and Deliver PrP siRNA across the Blood-Brain Barrier to Neuronal Cells and Cure Prion Infection In Vitro
Mark D. Zabel, Bruce Pulford, Fort Collins, CO

A one step triplex immunofluorometric assay enables differential diagnosis of BSE, classical and atypical scrapie
Yue Tang, Jorg G. Jacobs, Jan Langeveld, Maurice J. Sauer, Addlestone, Lelystad

Distinct Multiplex Diagnosis of Seven TSE-types from Cattle and Sheep.
Jorg G. Jacobs, Lucien J.M. van Keulen, Maurice J. Sauer, Yue Tang, Alex Bossers, Jan P.M. Langeveld, Lelystad, Addlestone

Degradation of Pathogenic Prion Protein and Prion Infectivity by Lichens
Christopher J. Johnson, James P. Bennett, Steven M. Biro, Cynthia M. Rodriguez, Richard A. Bessen, Tonie E. Rocke, Madison WI, Hamilton MA

Enzymatic Digestion of Chronic Wasting Disease Prions Bound to Soil
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Humanized PrPSc-specific antibody fragments – a step towards human prion disease therapy
Nives Škrlj, Tanja Vranac, Mara Popović, Vladka Ćurin Šerbec, and Marko Dolinar, Ljubljana

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FTIR Microspectroscopy: a Multiple-Screening Platform for Investigating Single-Cell Biochemical Perturbations upon Prion Infection
Alessandro Didonna, Lisa Vaccari, Alpan Bek, Giuseppe Legname, Trieste, Basovizza

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Characteristics of a new microbial protease that degrades the prion protein.
Jack O’Sullivan, Mary Murphy, Hilary E. M. McMahon, Dublin

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Probing prion interactions with small molecule human metabolites.
Rolando Perez-Pineiro, Trent C. Bjorndahl, Ying W. Dong, Mark V. Berjanskii, Li Li, Alan Huang, Rose Lee, Ebrima Gibbs, Neil Cashman, David S. Wishart, Vancouver

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Joanna Narkiewicz, Ai H-N Tran, Gabriele Giachin, Liviana Leita, Giuseppe Legname, Trieste, Gorizia

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DETECTION OF PrPCWD IN ROCKY MOUNTAIN ELK FECES USING PROTEIN MISFOLDING CYCLIC AMPLIFICATION
Bruce E Pulford, Terry Spraker, Jenny Powers, Margaret Wild and Mark D. Zabel, Ft. Collins, CO

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Studies on the DEGs (Differential Expression Genes) between CWD-infected and normal Tg elk mouse brain
Min-Jeong Kim, Dong-Seob Tark, Hyun-Joo Sohn, Yoon-Hee Lee, Hyo-Jin Kim, Won-Yong Lee, Chang-Hee Kweon, In-Soo Cho, Gyeonggi-do

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An improved assay for titration of variant CJD infectivity using human PrP transgenic mice

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Formalin fixed paraffin embedded tissue as a starting point for PrPSc detection by ELISA
Eric M. Nicholson, Ames, IA

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INTERVENTION WITH PENTOSAN POLYSULPHATE AND AGENT CLEARANCE IN A MURINE MODEL OF TSE CONTAMINATED TRANSFUSION
Christine F. Farquhar, Simon Cumming, Fraser Laing, Irene McConnell, Marc L. Turner, Jean C. Manson, Roslin, Edinburgh

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Wet versus dry: do environmental conditions have an effect on prion decontamination?
Thomas J. Secker, Hervé Rodolphe, William C. Keevil, Southampton
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Novel abnormal prion protein (PrPSc)-specific epitopes in the N-terminal region of PrP
Kentaro Masujin, Yuko Ushiki-Kaku, Hirokiyo Okada, Yoshihisa Shimizu, Kazuo Kasai, Yoshifumi Iwamaru, Morikazu Imamura, Shirou Mohri, Takashi Yokoyama, Ibaraki

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Ultrasonic human prion detection in cerebrospinal fluids by real-time quaking-induced conversion

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Degradation of abnormal prion protein by a new protease from a hyperthermophile.
Yuichi Koga, Shun-ichi Tanaka, Akikazu Sakudo, Kazuyoshi Ikuta, Kazufumi Takano, Shigenori Kanaya, Osaka

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Plasma proteome differences between sporadic Creutzfeldt-Jakob disease and Alzheimer’s disease patients
Franco Cardone, Serena Principe, Federica Fratini, Anna Ladogana, Marco D’Alessandro, Anna Poleggi, Paola Piscopo, Hanin Abdel-Haq, Silvia Graziano, Angelina Valanzano, Angela De Pascalis, Edmondo Campisi, Daniela Biond, Maria Puopolo, Annamaria Confalonieri, Marco Crescenzi, Maurizio Pocchiari, Rome

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Proteomics-based development of biomarker for prion diseases
Bo-Yeong Choi, Su Yeon KIM, Chi-Kyeong KIM, Seong Soo An, Soo Jae Lee3 and Young Ran Ju, Seoul, Gyeonggi-do

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Titration of buffy coat infectivity in sheep experimentally-infected with 127S strain using an in vitro cell culture assay
Aude ARZEL, Christiane SEGARRA, Bruno YOU, Anne-Laure JACQUOT, Daisy BOUGARD, Steve SIMONEAU, Hubert LAUDE, Olivier ANDREOLETTI, Joliette COSTE, and Benoît FLAN, Toulouse

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Single-chain fragments of variable region antibodies against the bovine prion protein from chicken
Inbeen Yim, Jeongmin Lee, Sangho Choi, Hee-Jong Woo, Seoul

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Lentiviral Delivery of Dual MicroRNA Targeting Prion Protein for Therapeutic Application
Sang-Gyun Kang, Yu-Mi Roh, Allen Herbst, Camilo Duque-Velasquez, Han Sang Yoo, Debbie McKenzie1 and Judd Aiken, Edmonton, Seoul

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Rodolphe Hervé, Mike Kong, Emmanuel Comoy, Jean-Philippe Deslys, Bill Keevil, Southampton, Loughborough, Fontenay-aux-Roses

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Quantitative Proteomic Analysis of Prion Infected Mouse Plasma
Allen Herbst, Xin Wei, Di Ma, Lingjun Li, Judd Aiken, Edmonton, Madison, WI
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Expansion of the BSE surrogate biomarker inventory
Sharon LR Simon, Lise Lamoureux, Margot Plews, Stefanie Czub, Catherine Graham, J David Knox, Winnipeg, Lethbridge

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Katsuya Satoh MD, Katsuo Mutsukura MD, Ryuichiro Atarashi MD, Susumu Shirabe MD, Yuki Matsui, Hitaru Kishida MD, Yoshiyuki Kuroiwa MD, Nobuo Sanjo MD, and Hidehiro Mizusawa MD and Noriyuki Nishida MD, Nagasaki, Yokohama, Tokyo

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Torsten Seuberlich, Florian Lütscher, Ilias G. Bouzalas, Anna Oevermann, Jan P.M. Langeveld, Chrysostomos I. Dovas, Maria Papanastassopoulou, Andreas Zurbriggen, Berne, Thessaloniki, Lelystad

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Vadim Khaychuck, Jifeng Bian, Dana Napier, Rachel Angers, Catherine Graham, and Glenn Telling, Lexington, KY, Lethbridge

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Maria Sensen, Julia Beck, Paul M.K. Gordon, Ekkehard Schütz, Howard B. Urnovitz, Bertram Brenig, Martin H. Groschup, Ted Sutton, Robert B. Church, Christoph W. Sensen, Calgary, Göttingen, Insel Riems, Vermilion

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Lenka Svobodová, Alexandra Potumayová, Maja Šnejdárková, Tibor Hianik, Bratislava

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Prion-Induced changes in the Urinary Protein Profile of Mice
Lise Lamoureux, Sharon Simon, Margot Plews, Michael Stobart, Stefanie Czub, Catherine Graham, J. David Knox, Winnipeg, Lethbridge

PPo9 Other Neurodegenerative Proteinopathies

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Prion-Like Propagation of SOD1 Misfolding in Amyotrophic Lateral Sclerosis
Cashman Neil R, Vancouver

PPo9-2
Investigating Doppel neurotoxicity in organotypic cultures of prion protein-deficient cerebellum
Siaka DOLE, Anne-Marie HAEBERLE, Nancy GRANT, Yannick BAILLY, Strasbourg
Ppo9-3
Spongiform Encephalopathy in Siblings with no Evidence of Protease-Resistant Prion Protein or a Mutation in the Prion Protein Gene
Daniela Varges, MD, Kai Kallenberg, MD, Walter J. Schulz-Schaeffer, MD, Inga Zerr, MD, Göttingen

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Probing Structural Transitions in Superoxide Dismutase, a Protein with Prion-Like Template-Directed Misfolding Activity
Will C. Guest, Atanu Das, Steven S. Plotkin, Neil R. Cashman, Vancouver

Ppo9-5
Stress activated signaling modulates Aβ42 Association with Neuronal Cells
Jan Braun and Anna Carnini, Calgary

Ppo9-6
Abeta amyloid aggregates propagate in vivo their aggregation state.
Ramilllon V., Dos Reis S., Laurent V., Frémont L., Caze-Subra S., Maddelein ML, Toulouse

Ppo9-7
Presence of Amyloid-beta (Aβ) oligomers in blood from patients with Alzheimer’s Disease
Mino Kang, Won Park, Sungmin Kang, Kuntaek Lim, Byungsub Lee, Gwang Je Kim, Su Yeon Kim, YoungSoon Yang, Hae Ri Na, Young Chul Youn, Seong Soo A. An, Youngran Ju, SangYun Kim, Seoul