Alberta Prion Research Institute - Update

Kevin Keough PhD FCAHS ICD.D
Executive Director
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Research in progress

• Sabine Gilch
  Prion infection changes the ways in which cells handle the movement and degradation of proteins and how cholesterol influences this process

• Holger Wille
  Structure of the prion from one form of atypical BSE
Research in Progress

• Evelyn Merrill, Margo Pybus
  Most effective zones for managing CWD on the landscape

• Vic Adamowicz, Margo Pybus
  Preferences in CWD management options
Research in Progress

• Peter Stys
  Multiple Sclerosis might be caused (and transmitted) by accumulation of atypical misfolded prion proteins in association with an inflammatory response

• Ted Allison
  Prion-like properties of development of CTE after Traumatic Brain Injury
Research in Progress

• Valerie Sim
  Treatment of cells with sugars and sugar derivatives could reduce the production of prions

• Hermann Schätzl and Sabine Gilch
  Control of prion infection by AR-12, an FDA approved derivative of celecoxib
Research in Progress

• Majid Mahajarani
  Active oligomers, amyloid, tangles and calcium fluxes in rat brain

• Holger Wille
  Rational Design of anti-prion vaccines
Other activities

• Hosting Prion 2019 in Edmonton
  Plenary Sessions on Human Disease, Genetics
  and Therapeutic Approaches
  Workshop on Biomarkers and Diagnostics

• Preparation for request for additional funding
  from Government of Alberta