Nature of TSE infection and Routes of Transmission

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Title of project or programme

Nature of TSE infection and Routes of Transmission

Principal Investigators of project/programme grant

Title	Forname	Surname	Institution	Country
Professor	Jean	Manson	University of Edinburgh	United Kingdom

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Source of funding information

Biotechnology and Biological Sciences Research Council

Total sum awarded (Euro)

2462782

Start date of award

01-08-2008

Total duration of award in months

36

The project/programme is most relevant to

- Prion disease

Keywords

Research abstract in English

We aim to study the biochemical and biophysical nature of different strains of agent and their modes of transfer from animal to animal for the development of specific disease control in combination with efficient health and environmental protection measures. The refinement of diagnostic methods and

genetic programmes will be used to eradicate novel TSE agents and provide models for risk reduction in other diseases. We will follow the agent in its route into the host and study the cellular, molecular and genetic mechanisms that enhance or prevent efficient transmission. The objectives of this theme are: To define TSE strains. Understand the TSE infectious agent and diagnosing disease. Define routes of transmission between animals. Understand genetic control of susceptibility/resistance. To define the role of PrP gene regulation in TSE disease. Investigate therapeutic intervention.

Lay summary