

Subject class: **Diagnosics, Prion Analysis, Life Science Research, Business Development.**

Diagnosics Business Analysis Series: Prion Analysis & Treatments 2018 – ABA 315

Huckle D,

Adams Business Associates: Global Library of Growth Areas in Diagnosics in depth Information and Business Analyses -
(49 pages). Price: GB £ 1,500.

Target audience: Chief executives, marketing and sales managers, business development managers, R&D Managers, Investors and Analysts.

This analysis is part of the series of global reports on the fast growing and evolving areas in Diagnosics, in both human and animal healthcare. The reports take a total business view covering the Technologies, Manufacturing, Markets, Regulations & Reimbursement, together with the business environment that impacts commercial activity.

All of the business and technical elements are used to provide a unique analysis of the **Prion Analysis** sector to understand the issues faced by companies in the sector and particularly the reasons that have prevented achievement of the full potential for the various Diagnostic sectors. The key factor to be overcome has been methods to identify infection before symptoms can be seen, as by then there is almost certain death even if disease progression is slow. There are similarities of Prion disease features with those of Alzheimer's and Parkinson's Diseases where deposits in the brain cause aberrant behaviour.

The primary objective of the report is to review and analyse all the elements that impact the development of the POCT sector and the sections noted below provide the structure used to meet this objective.

- Prion Disease Background
- Disease Identification, Diagnosis & Analysis
- Prion Disease Treatment & Prevention
Human Healthcare, Animal Husbandry and R&D for Development of Diagnosics & Therapy
- Research Programmes for Prion Disease
- Commercial & Market Quantification for Prion Disease Products
- Perspective on Diagnosics, Therapy & research for Prion Disease

The Prion report differs from the other Diagnostic reports since the underlying trigger for mis-folded protein formation is still not understood although genetic susceptibility is becoming clearer. The continuing research work is important with "infection" caused by "Mad Cow Disease" (vCJD via BSE) recognised but the driver for sporadic CJD and other Prion diseases still requiring more research. An important stimulus for Prion research and diagnosis is in the similarity of the process of Prion diseases with those of ageing, such as Alzheimer's and Parkinson's, all of which result in deposits in the brain (Amyloid) and have other similarities. Prions cause neurodegenerative disease by aggregating extracellularly within the central nervous system to form plaques known as amyloid.

In this position the important work involved, both commercially and for research, for Prevention of Prion infections from entering the food chain through monitoring of animals and food processing methods with testing methods analysed.

All Diagnostic Business Analysis Series reports include market quantification with regional breakdown, segment analysis with commercial aspects and the critical business development features that support future direction of the sector analysed.
