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[\[PDF \(438K\)\]](#) [\[References\]](#)**Aptamer-Mediated Chemiluminescence Detection of Prion Protein on a Membrane Using Trimethoxyphenylglyoxal**[Md Towhid HOSSAIN^{1\)}](#), [Takayuki SHIBATA^{1\)}](#), [Tsutomu KABASHIMA^{1\)}](#) and [Masaaki KAI^{1\)2\)}](#)*1) Faculty of Pharmaceutical Sciences, Graduate School of Biomedical Sciences, Nagasaki University**2) Global Center of Excellence Program, Nagasaki University***(Received May 10, 2010)****(Accepted May 24, 2010)**

Effective recognition and quantitative analysis of the prion protein are important in drug discovery and diagnosis for prion diseases, such as bovine spongiform encephalopathy and Creutzfeldt-Jakob diseases. We have developed a high-throughput method for a specific and sensitive determination of prion protein on a solid-phase membrane, based on a chemiluminescence reaction of aptamer with 3,4,5-trimethoxyphenylglyoxal. This method using aptamer is facile, inexpensive and convenient for the detection of the prion protein on a membrane, indicating a lower detection limit of *ca.* 4.2 pmol spot⁻¹.

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