

FET Sensors for Alzheimer's Disease ProteinBiomarker Clusterin Detection

Theodore Bungon

University of Plymouth, United Kingdom

Abstract

The prevalence of Dementia is rapidly growing across the world due to an aging population. There are approximately 50 million people currently living with Dementia worldwide and it is estimated that every year 9.9 million people will develop the disease. The number of people living with Dementia is expected to rise to 130 million by 2050. There are over 130 different types of Dementia and Alzheimer's disease (AD) is the most common type, affecting between 50-75% of those diagnosed with Dementia. AD can only be diagnosed through a careful and comprehensive medical evaluation, which involves different types of tests ranging from laboratory tests, psychiatric evaluation, neurological evaluation, cognitive tests and brain scans such as CT scans, PET scans and MRI. These tests are time consuming, often takes up to 2 years to complete and they are expensive, the need for a low-cost, accurate, non-invasive and portable means of diagnosing AD at an early stage is of high importance.

Received: March 10, 2022 ; **Accepted:** March 24 , 2022; **Published:** March 30, 2022

Biography

Wolfson Nanomaterials and Devices Laboratory, School ofEngineering, Computing and Mathematics, Faculty of Science and Engineering, University of Plymouth, Drake Circus,Plymouth, Devon, United Kingdom.