Date: 2nd December 2016

Speaker: Dr John Taylor, Newcastle University

Biography: BSc (Hons) Applied Biochemistry Brunel University
1981 PhD in Autoimmune Disease Studies University of Newcastle
1994 Certificate in Teaching and Learning in Higher Education

Title: Development of nano-biosensors for salivary biomarker analysis in periodontitis

Aims and Objectives:

Diagnosis and management of periodontitis currently relies on clinical observation and radiography, neither of which objectively measure active inflammation and which only provide retrospective data on disease progression. We are conducting research to identify molecular biomarkers of periodontitis and to develop novel technologies, which we hope, will provide convenient and objective assessment of disease activity in the clinical and the home. This talk will outline our development of a nano-biosensor, which measures matrix metalloproteinase-8 (MMP-8) using surface-acoustic wave technology and which has potential application in the management of periodontitis.