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| **Institution: Middlesex University** |
| **Unit of Assessment: UofA3 Allied Health Professions, Dentistry, Nursing and Pharmacy** |
| **Title of case study:** Effective methods to study and locate the physical properties of gold nanoparticles in medical application to improve clinical effectiveness |

**Period when the underpinning research was undertaken:**

Collaboration has continued, using clinical data held at and managed by Middlesex University and analysis of that data in shaping some of our own work which will create opportunities for clinical trials in the future.

The benefits here are primarily related to the development of new diagnostic but also effective treatment schemes, but we also see ongoing benefit in patient support, clinical decision-making and treatment triage. [5.5]

4.5 The work above [4.4] has led to the application of bioimpedance/nanoparticles methods for brain cancer initially at UCLH and then at KCH. The work focuses on image guided surgery using a new robotic system to identify what part of the tissue has cancer during surgery

5.7 The Institute of Nano-Resolution Optics at Nanjing University are experts in developing a detection scheme based on the modification of light transmission through a plasmonic nanopore.