

Structured Reports for the Pathological Society Equipment Award

Recipients of equipment awards from the Pathological Society of Great Britain and Ireland should submit a scientific report (within 12 months) detailing the equipment purchased using the award (even if only part funded), together with a brief description of representative research work undertaken using this equipment that has been partly supported by this equipment award and any outputs arising from this work. The reports should be set out using the following subheadings and should consist of:

Final report: 1 A4 page of text

Title: Equipment Grant - Grant Reference No: EG 0420 1174

Name & Address: Dr Danielle Bury, Consultant Histopathologist, Blackpool Victoria Hospital.

Background and aims:

The machine is forming a large part of our saliva study looking to detect lung cancer within the local screening programme from participant saliva, funded by North West Cancer research. This is a CRN portfolio study. This is Andy our post doc (also the trusts first post doctoral researcher) analysing samples.



Equipment Purchased (full description):

We would like to thank the Pathological Society for their grant which has enabled us to purchase a Cary 360 FTIR. The purchase had to be delayed due to COVID and the hospital policy to not bring in any outside contractors unless key machinery was broken. However, once this was lifted we proceeded and the machine is now installed and up and running. This is the first large piece of research equipment within the department and everyone has been fascinated to see it up and running.

Results of representative research work:

This study has garnered interest from the North West Coast Clinical Research Network and their communications manager is keen to join us later in the year to film the project in action. This is to increase the profile of research within the region and the importance of lung cancer research. Once this is

completed I will make sure I send you a link to the video as the machine (with your sticker) I am sure will feature. We also look forward to our first publications using the data from the FTIR. The Pathological Society will of course be acknowledged.

In the wider department we have a clinical scientist trainee who soon has to undertake a PhD level project as part of her training. We are on with developing this project looking at new diagnostic methods and bringing testing closer to the patient. The FTIR will form a large part of the 'new diagnostics' given its moveability and low reagent costs. Beyond this, we are ensuring that several members of the biomedical science staff are able to use and maintain the machine with offers open to any interested members to suggest a project proposal. Given the large numbers of students from both the University of Central Lancashire and Lancaster who visit the department as part of their BMS training, it is hoped that some of their project requirements can also be met by using the new FTIR.



Conclusions:

Once again, Professor Martin and I would like to thank the Pathological Society for this grant towards our FTIR – without this it would not have been possible. Raising the profile of research within the NHS and pathology is crucial moving forward in order to improve patient outcomes.

How Closely Have the Original Aims been Met:

We have purchased the machine as per our grant application.

Outputs (including meeting abstracts, oral presentations, original papers, review articles) from the study in which the Pathological Society has been acknowledged:

To follow.

You may include up to 1 extra page for diagrams/images/tables and references.

MJ Arends as Chair of Research Subcommittee July 2017.