

ICM Research in Progress Seminar

Monday 19th November

Lucy Walker

(Prof. C Harwood, Prof. D Deehan)

The use of Alpha defensin lateral flow test in revision surgery for Periprosthetic Joint Infection

Periprosthetic joint infection (PJI) can be a devastating complication of arthroplasty surgery. There is currently no test which confirms the presence or eradication of PJI with 100% reliability. An in-theatre lateral flow test using the biomarker alpha defensin was developed for diagnosing PJI and initial results were encouraging. We conducted a prospective observational study to assess the utility of the alpha defensin lateral flow (ADLF) test in diagnosing PJI and confirming eradication after surgical debridement. We found that the ADLF test had a high specificity and PPV for confirming eradication of infection but had poor diagnostic accuracy for PJI when used on intra-operative samples.

Julia Concetti

(Prof. D Mann, Dr. C Wilson, Prof. J Mann)

Discovering the tumour-suppressor function of the p50 subunit of NF- κ B

Global p50 knock-out mice develop more liver tumours and exhibit increased inflammation. Here, we aim to elucidate the role of p50 in hepatocytes specifically, by using a similar liver cancer model in p50 hepatocyte knock-out mice.

Dr Paul Milne

(Prof. M Collin)

Flow Cytometric Immunophenotyping of Salivary Glands in Primary Sjögren's Syndrome

Primary Sjögren's Syndrome (PSS) is a common autoimmune disease of unknown aetiology. It is characterised by inflammatory infiltration of exocrine glands, development of a sicca syndrome and a 20-fold increase in the risk of developing lymphoma. Standard pathological evaluation is based on a lymphocyte 'focus score' but little is known about the composition of the lymphoid infiltrate or its relationship to disease markers such as autoantibodies and the risk of lymphoma. The aim of the study was to use flow cytometry to characterise the lymphoid infiltrate in more detail.

Chair: Prateek Saxena

Dental Lecture Theatre D

1pm - 2pm