

## **Project: Regulators of the innate immune response to tumour growth**

**Lead Investigators:** Dr Barbara Rolfe (AIBN) and A/Prof Trent Woodruff (SBMS)

The incidence of melanoma is increasing world-wide, and Queensland has the highest rate of melanoma in the world. Despite recent advances in treatment, outcomes for advanced melanoma remain extremely poor. This collaborative project with Associate Professor Trent Woodruff (from the School of Biomedical Sciences) investigates a previously unknown mechanism by which the immune system can be directed towards an anti-tumour response. Animal models of cancer will be used to study the effects of complement modulating drugs on the growth of melanoma and other tumours. Techniques including cell culture, histological and immunohistochemical analysis, flow cytometry, Western analysis and qPCR will be used to study the mechanisms by which these drugs exert their effects.

The project is highly likely to result in at least one publication, but depends on the length of project.

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