

Victoria

The Walter and Eliza Hall Institute of Medical Research

DP0774639 Dr S Carotta

Approved Project Title **Role of the PU.1 transcription factor in regulating lymphoid development**

2007 : \$77,030

2008 : \$77,030

2009 : \$77,030

Primary RFCD 2701 BIOCHEMISTRY AND CELL BIOLOGY

APD Dr S Carotta

Administering Organisation The Walter and Eliza Hall Institute of Medical Research

Project Summary

Haemopoiesis is a tightly regulated process and provides an important model for our understanding and application of stem cell biology. Perturbation of early haemopoiesis results in a number of important disorders including leukaemia, anaemia and immunodeficiency. The application of stem cells to many disease conditions is currently being pursued, however, in order to develop therapeutic interventions knowledge of normal cellular differentiation is crucial. The studies outlined here aim to contribute to the understanding of these processes and hence help to provide the framework for future studies aimed at more directly altering cell fate decision for clinical applications.

DP0774583 Dr MC Labat

Approved Project Title **Elucidation of the hierarchy of stem, progenitor and mature cells in the mouse mammary gland**

2007 : \$77,030

2008 : \$77,030

2009 : \$77,030

Primary RFCD 3004 ANIMAL PRODUCTION

APD Dr MC Labat

Administering Organisation The Walter and Eliza Hall Institute of Medical Research

Project Summary

Breast cancer is the most common cause of cancer-related death in women in Australia. Although the treatments have improved over the last 30 years, many women still die from the disease. It is therefore important to identify new targets for breast cancer treatment. There is growing interest in the concept that a cancer-initiating cell may arise from a stem cell or progenitor cell in the mammary gland. Our goal is to identify those cells and to determine which genes are involved in transforming a normal cell to a cancerous cell.