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Phil Hodgkin is an experimental and theoretical immunologist and current head of the Immunology Division at the Walter and Eliza Hall Institute, Melbourne.

His primary research interests centre upon the regulation of T and B lymphocytes. His laboratory develops quantitative methods for exploring lymphocyte behaviour including single cell imaging and division-based tracking. His laboratory is developing analytical software tools for simulating the effect of cytokines and genetic changes on lymphocyte growth, survival and differentiation. His goal is to understand the behaviour of lymphocytes and recreate the immune response with computer-based models.