Ian Frazer is a former Director of the Translational Research Institute in Brisbane and Research Group Head at the University of Queensland Diamantina Institute. He used the funds available from his 2008 Balzan Prize to support two fellows, Antje Blumenthal and Steven Mattarollo, who were based with Frazer’s group at the University of Queensland Brisbane. Blumenthal investigated how pathogens are recognized by the immune system, how appropriate inflammatory responses are initiated and regulated, and how this instructs adaptive immune responses that are critical to control chronic infections.

Steven Mattarollo was funded for two years to work in Melbourne, Australia, with Professor Mark Smyth, an acknowledged world expert on the role of NKT cells in control of cancer cell growth. During these two years as a Balzan Fellow he pursued two main lines of research: developing a therapeutic cancer vaccine against melanoma and non-Hodgkins B cell lymphoma that induces innate and adaptive immunity by targeting the immune adjuvant properties of NKT cells; determining the immune constituents that are important for the therapeutic effectiveness of chemotherapies, and assessing combination chemo-immunotherapy strategies for treating solid tumours.

Publications

induces potent activation of IDO-1, but this is not essential for the immunological