Examples of Future Fellowships projects commencing in 2013

Victoria

Victorian research organisations will receive more than $49.8 million through the Australian Research Council Future Fellowships scheme for 67 new research projects commencing in 2013.

Some examples of the VIC projects are provided below.

To view the summaries of all successful projects, visit the [ARC announcements page](#).

**The University of Melbourne**

*Future Fellow: Dr Nigel Jones (FT130100100)*

**Summary:** Psychiatric disorders, such as depression, anxiety and cognitive disorders, are frequently observed in patients with epilepsy. Although standard dogma suggests that psychiatric disorders are a consequence of living with epilepsy, recent evidence suggests a bidirectional relationship between these disorders, such that depression and other psychiatric illnesses act as risk factors for epilepsy development. This project will utilise basic science approaches to understand the causal relationships between epilepsy and psychiatric disorders, and determine how and why psychiatric disorders and epilepsy co-exist. It is hoped that research conducted in this project will develop novel avenues to treatment of both epilepsy and psychiatric disorders.

**ARC funding:** $755,320 over four years

**Monash University**

*Future Fellow: Dr Mehmet Yuce (FT130100430)*

**Summary:** Using advanced integrated electronic and mechanical systems, it is now possible to design small biomedical sensors that can be inserted into the body to take biological measurements. This project introduces a new kind of bio-sensors with self-energy generation capability and reduces the need for periodic battery replacement. New wireless and circuit techniques are investigated to reduce power consumption and physical dimensions, while providing a better performance and a safer wireless link. The project aims to deliver high level of comfort, better mobility and better patient care.

**ARC funding:** $748,320 over four years

**Deakin University**

*Future Fellow: Associate Professor Yin Paradies (FT130101148)*

**Summary:** Despite the well recognised need to understand and address racism, it remains a globally significant issue. Encompassing a range of internationally novel research, this project aims to enhance conceptual understandings of racism and anti-racism and investigate empirical data on the health and social effects of racism. It will design, implement, evaluate and analyse findings from anti-racism interventions, examine the interplay between racism and the impact of organisational diversity and shape policy and practice relating to racism, anti-racism and diversity across various sectors. This multi-faceted approach will considerably enhance our understanding of, and capacity to address, racism both in Australia and internationally.

**ARC funding:** $828,682 over four years