



Combat Genes: Genetic predictors of performance and injury



Purpose

- To identify genetic predictors of the response to physical training, and the likelihood of sustaining an injury during basic training, in Army recruits.
- To identify genetic predictors of baseline physical performance, relevant to the Army, in new recruits
- Follow army recruits through basic training at the Kapooka Army Recruit Training Centre (ARTC). Physical performance and injuries will be monitored and linked to specific genetic markers via blood sample collection and analysis.

Product

- A review of the current literature on “genes and the military”
- Report of genetic predictors of physical performance, trainability, and susceptibility to injury in military personnel

Schedule

- FY18-19: Ethics approval and the commencement of data collection at Kapooka (ARTC).
- FY19-20: Continuation of data collection (1400/2000 recruits completed). Analysis of blood samples, performance data, and injury reports to begin in 2020.
- FY20-21: Preparation of final reports, publication of findings and dissemination of results within the army

Partners

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