

Animal and Bioscience Department

Title

ICT in large and small dairy systems

Abstract

This multidisciplinary project seeks to integrate and extend existing state of the art technologies to ensure sustainable and responsible management of dairy units, with focus on cow health, milk quality and reduced emissions. We shall focus on milk metabolomic methods for determination of metabolic health, biomarker technologies for assessment of systemic health and accelerometer collars for measuring various activities including feeding behaviour, and hence intake. We shall also have access to NIR technology for feed quality assessment and rumen-bolus technology for measurement of rumen pH. We have advanced teleonomic technologies that will enable us to integrate these input data into decision support tools. Our technologies will monitor animals and environment, detect deviations from the normal state and either respond automatically to restore the normal state or issue an alert to husbandry staff. We have access to a range of dairy units for evaluation of the technologies.

Project Leader: Riona Sayers

Programme/Subprogramme/RMIS Number:

AGRIP - Moorepark Animal Biosciences-Animal Well-being & Health-6433

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