

## **International Graduate Centre of Animal Science (IGCAS)**

### **STAFF CONTACT DETAILS**

#### **UNIVERSITY OF NEW ENGLAND**

##### **Professor Iain Young**

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Research Interests:  
Soil science

##### **Dr. Wendy Brown**

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Research Interests  
animal nutrition  
companion animal health and nutrition  
canine dental health  
urate urolithiasis in the Dalmatian  
palatability testing  
grass eating behaviour in dogs

##### **Professor David Cottle**

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Research Interests:  
sheep & wool science  
wool traits in Merino sire evaluation  
risk management in wool supply chains  
modelling wool production  
wool colour  
nutrition and wool characteristics  
feed intake and efficiency  
applied genetics in both sheep and cattle

**Dr Geert Geesink**

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Research Interests:  
meat science  
post mortem proteolysis in muscle tissue  
determinants of meat quality

**Professor John Gibson**

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Research Interests:  
animal genetics & breeding  
discovery of genes underlying disease resistance and adaptation  
design of sustainable and profitable breeding programs in developed and developing world  
utilization of molecular genetic technologies in genetic improvement  
assessment and utilization of genetic diversity

**Dr Ian Godwin**

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Research Interests:  
animal physiology  
comparative erythrocyte biochemistry  
the regulation of gastrointestinal motility in ruminants  
comparative gastrointestinal development  
aquaculture

**Dr Cedric Gondro**

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**Research Interests:**

animal genetics & breeding  
evolutionary Computation and Artificial Life for optimization of biological problems  
computational methods and statistical analysis of high-throughput genomic data  
evolution and population genetics

**Professor Roger Hegarty**

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**Research Interests:**

Major current emphasis is measurement and management of methane emissions from ruminant livestock. This includes (1) development of rumen modifiers for anti-methanogen and antiprotozoal action; (2) evaluation of feasibility of breeding sheep and cattle for reduced methane yield and (3) development of improved ways for estimating methane emission on-farm. Prior to this I have worked extensively in nutritional modification of fat and protein deposition in lambs and nutritional effects on sheep skin biology and wool properties. Existing collaboration with UWA is with Phil Vercoe in study of sheep genetics and methane. In coming years I hope to increase basic research on animal and diet factors that affect rumen fermentation, & on the role of ruminal efficiency in animal energetic efficiency.

**Professor Geoff Hinch**

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**Research Interests:**

animal production  
the behaviour of farm animals, in particular the impact of social behaviour on production & welfare  
nutrition x reproduction interactions in ruminant animals, in particular the manipulation of neonatal survival  
aspects of artificial breeding technologies (superovulation & embryo transfer) in small ruminants  
neonatal physiology and behaviour and in the application of GPS tracking techniques to the understanding social, sheltering and foraging behavior of sheep and cattle

**Associate Professor Paul Iji**

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Research Interests:

poultry science

nutrition of poultry and pigs

effects of anti-nutritional factors on farm animals

development of digestive function in poultry

nutritional application of biotechnology feed additives (microbial enzymes; prebiotics)

evaluation of alternative feed resources for poultry and pigs

**Dr Lewis Kahn**

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Research Interests:

animal health

nutritional and genetic regulation of host resistance to internal parasites of sheep

ecology of major trichostrongylid parasites of sheep

periparturient relaxation of immunity to internal parasites of sheep

grazing management and effects on animal production and natural resource management

strategies to reduce neonatal lamb mortality

nutrition of grazing herbivores

**Professor Brian Kinghorn**

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Research Interests:

animal genetics & breeding

theoretical quantitative genetics & design of animal breeding programs

information systems to aid detection & exploitation of genes of major effect

implementation systems for integrating technical, cost & logistical issues in breeding programs

**Dr Lene Mikkelsen**

Honorary Fellow – now back in Denmark

Email: [lene.mikkelsen@une.edu.au](mailto:lene.mikkelsen@une.edu.au)

Research Interests:

animal nutrition

nutrition of pigs & poultry

gut microbiology

gastrointestinal physiology and function

evaluation of alternatives to antibiotic growth promoters for pigs & poultry

**Professor John Nolan**

Retired Honorary

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Research Interests:

animal nutrition

ruminant nutrition; supplementing diets with urea & 'escape' protein

degradation of plant protein in the rumen

estimation of microbial growth in the rumen using urinary excretion of purine derivatives

protein synthesis & degradation in animal tissues

voluntary food intake & selective grazing behaviour

use of isotopic tracers in biological research

**Dr. Hutton Oddy**

Senior Research Fellow

Animal Science

School of Environmental & Rural Science

Meat Science (W48)

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Research Interests:

Meat quality

Sheep genomics

Genetics of cattle

**Associate Professor Julie Roberts**

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Research Interests:  
poultry science  
egg and egg shell quality in laying hens  
infectious bronchitis disease in laying hens  
kidney structure and function in avian species

**Dr Darryl Savage**

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Research Interests:  
animal nutrition  
animal nutrition, in particular carbohydrate & protein digestion  
supplementary feeding of cattle & sheep and the impact it has on growth and reproduction  
rangeland ecology with particular interest in the impact of grazing management practices

**Professor Robert (Bob) Swick**

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Research Interests:  
Poultry and monogastric nutrition, anti nutritional factors, energy utilization, feed additives, feed formulation, digestive physiology, dietary factors influencing the occurrence of enteritis, hepatic metabolism, protein meal processing, grain trade.

**Professor John Thompson**

Retired Honorary

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Research Interests:

meat science

techniques to measure in vivo body composition; different physiological stresses (weight loss, pregnancy and lactation)

aspects of meat quality

**Professor Julius van der Werf**

Animal Science

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Research Interests:

animal genetics & breeding

detection & use of quantitative trait for livestock production

optimisation of animal breeding programs & use of new technologies in Statistical Genetics

genetic evaluation & Linear Models

**Professor Steve Walkden-Brown**

Animal Science

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Research Interests:

animal health

diseases of sheep & goats with a special interest in the integrated control of internal parasites

diseases of poultry with a special interest in Marek's disease of chickens

sheep & goat production systems

the teleology & regulation of seasonality in ruminants

**Dr Shubiao Wu**

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Research Interests:

animal genetics & breeding

plant and animal gene discovery

molecular genetic mapping

gene expression & functional analysis

poultry microflora and health

animal genetics and nutrigenomics

molecular marker and mapping

gene expression