

SRUC Poultry Research

Poultry Research Studies and Services

• Production and efficacy

- Regulatory studies with EFSA compliant reporting
- Tolerance and safety
- Digestibility / balance studies
- Precision feeding
- Incubation
- Global warming potential

• Behaviour and welfare

- Welfare assessment
- Pain assessment & gait analysis
- Housing design

• Product quality and safety

- Meat and egg quality
- Thermal and CT imaging
- Sensory testing
- Zoonotic load

• Gut and skeletal health

- Microbiomes
- Anti-microbial resistance profiling
- Keel bone assessment on live birds
- Challenge models
- Post mortem, including lesions and histopathology



SRUC Poultry Research

SRUC's Poultry Unit builds on decades of strategic and applied poultry research, learning and consultancy activities. It encompasses all aspects of poultry science, including nutrition, behaviour and welfare, product quality and safety, and gut and skeletal health.

The Unit delivers scientifically robust, hypothesis driven trials from small-scale through to near commercial conditions to meet industrial and academic poultry research requirements.

This is achieved through a research and delivery capability that includes a series of small animal rooms. Home Office approved raised-floor units, enriched housing layer facility and large floor pen facilities. A nearby hatchery can cater for a range of incubation studies.

SRUC designs, manages and delivers major research projects in poultry science to an internationally-recognized high standard, from concept through to robust demonstration of application.

New Poultry Science Research Centre opens in Spring 2019

SRUC's Poultry Unit is relocating from Auchincruive Estate, South Ayrshire, UK to Bush Estate, Midlothian, UK in Spring 2019.

Contact Details

T: 0131 535 4000 E: poultry@sruc.ac.uk CIEL@sruc.ac.uk

Scotland's Rural College, SRUC
Leading the way in Agriculture and Rural Research, Education and Consulting

SRUC is a charity registered in Scotland, No. SC003712 1357936AD.30.4.2018

We work with
Innovate UK

In partnership to deliver
innovation in livestock



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2017



SRUC

Poultry Research

Scientifically sound replicated trials from small-scale pilots through to commercially relevant conditions



SRUC - Scotland's Rural College
Leading the way in Agriculture
and Rural Research, Education
and Consultancy



We work with
Innovate UK

In partnership to deliver
innovation in livestock



SRUC – winners of the Queen's Anniversary Prize 2017 – supports innovation and sustainable development in agriculture and the rural sector in Britain and internationally. We are one of the UK's leading agriculturally-focussed higher education institutions, offering a unique blend of research, education and consultancy.

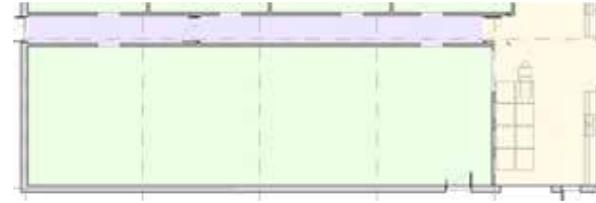
SRUC's research and education activities operate from six campuses and eight farm and research centres across Scotland. Our consultancy arm supports more than 12,000 farms and rural businesses across the UK from 25 consultancy offices and eight veterinary disease surveillance centres.

SRUC Poultry Research Broiler / Turkeys



- **Small-scale pilot studies**
 - Four identical animal rooms of 20 m² each
 - Space for up to 12 floor units (240 broilers per room)
 - Flexible penning to accommodate layers with nest boxes
- **Near commercial-scale trials**
 - One 1120 m² room for 144 floor units (up to 5760 broilers)
 - Optional simultaneous multiple studies under commercially-relevant stocking density
 - Flexible penning to accommodate turkeys
- **Read-outs** (not inclusive)
 - Production data (feed/water intake, weight gain, mortality)
 - Carcass quality
 - Gut lesions, morphology and microbiology
 - Behaviour and welfare assessment
 - Blood biochemistry and haematology
 - Litter, hock and foot pad scoring

Layers and Hatching



- **Enriched units**
 - Nest box
 - Perches (15 cm/bird); claws shortners
 - Pecking and scratching area
- **Near commercial-scale condition**
 - 64 units in 230 m²
 - 21 birds per unit (1344 birds in total)
- **Read-outs** (not inclusive)
 - Production data (egg output, feed intake, weight gain)
 - Egg quality
 - Behaviour and welfare assessment
 - Gut lesions, morphology and microbiology
- **Incubation**
 - Up to 19200 eggs
 - *In ovo* application
 - Blood biochemistry and haematology
 - Optimising incubation and post-hatch environment
 - Custom hatching



Nutritional Value



- **Home Office compliant raised floor units**
 - 36 multi-tier units in 180m²
 - Unit size: 2.25 m²
 - Nine broilers or six turkeys per unit
 - Total 324 broilers or 216 turkeys for digestibility studies
- **Read-outs** (not inclusive)
 - Excreta collection for total tract digestibility (AME, nutrient and mineral losses)
 - Digesta collection for marker-assisted standardised ileal digestibility using test and N-free diets
 - Production data for quality control (feed intake, weight gain)
 - Gut lesions, morphology and microbiology
 - Blood biochemistry and haematology

