



**International workshop on “Animal production in a changing world”**  
**CLERMONT-FERRAND (INRA-Theix)**  
**SEPTEMBER 9 -10, 2009**

The roles of animal science and livestock production have changed considerably in recent years. It is apparent that livestock production plays an important role in maintaining food supplies with sustainable agricultural systems but this has to be within the context of: (1) the challenges of global climate change – including livestock’s role in global climate change, mitigation of this, the impact of global climate change on livestock systems and how agriculture can adapt to meet growing demand for livestock products sustainably and (2) the need to produce animal products that meet societal needs – in relation to diet and health, quality and security of food supply, animal welfare, ethically sound production and sustainable resource use. This workshop seeks to develop a picture of the future landscape of global animal production systems and will seek to identify key research priorities in animal agriculture to address two competing challenges, the negative contribution of livestock to the environment against the positive benefit in terms of food security.

**Wednesday 9<sup>th</sup> September**

- 14:00 Registration and coffee  
14:30 Welcome and introduction to the workshop, Dr Philippe Chemineau, Head of Animal Physiology and Livestock Systems Division, INRA  
14:35 Keynote presentations

**Animal production in a changing world**, Pr Nigel Scollan, Aberystwyth University, UK

**Sub-theme 1 Animal production and environmental impact**

- **Mitigating the greenhouse gas balance of ruminant production systems through carbon sequestration in grasslands**, Dr Jean-François Soussana, INRA-Theix, France
- **Recent advances in improving efficiency of energy utilization in cattle**, Dr Chris Reynolds, University of Reading, UK

**Sub-theme 2 Animal product quality**

- **Animal product quality in a changing world**, Pr David Pethick, Murdoch University, Australia
- **Lipids: from animal to products**, Dr Michel Doreau, INRA-Theix, France

20:00 Workshop dinner

**Thursday 10<sup>th</sup> September**

- 09:00 Breakout sessions to consider key research priorities within the two sub-themes
- **Animal production and environmental impact:** Chair Pr Jamie Newbold Abersywyth University. Rapporteur: Dr Paul Greenwood, Department of Primary Industries, Australia
  - **Animal product quality:** Chair Dr John Wallace Rowett Institute, University of Aberdeen Rapporteur: Dr Kevin Shingfield, MTT, Finland
- 10:30 Coffee  
11:00 Feedback from breakout sessions and concluding remarks  
13:00 Lunch and departure (14h30)