

# Genetics and Genomics in Livestock Management

15 credit standalone module, or part of MSc Intensive Livestock Health & Production

This module covers principles of Mendelian genetics, population genetics and quantitative genetics. This will be used to explain the approaches to animal breeding, primarily in pigs and poultry, but with examples from other livestock and companion animal species where relevant. Modern concepts of selection are introduced, including marker assisted selection and the use of genome-wide information to facilitate selection for traits such as resistance to infection which are difficult to manage by conventional breeding approaches.

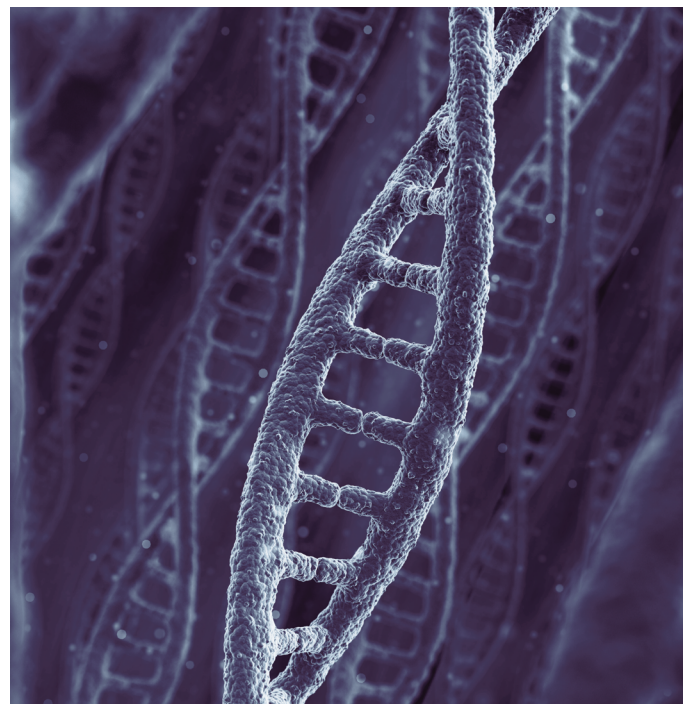
## Part-time, Online, Interactive, Distance Learning

Learn while you earn and study from your home or workplace at times that are convenient to you



### Delivery and assessment:

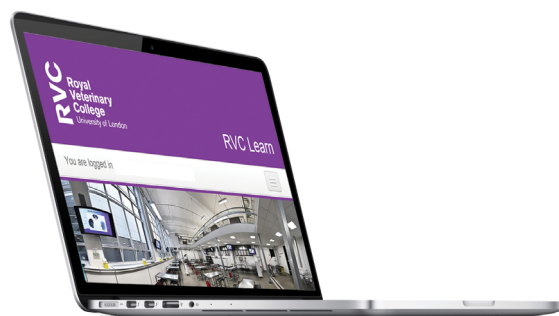
Delivery is via part-time, online distance learning over 11 weeks. Students are expected to commit approximately 12 hours per week during the delivery of the module. Module assessments range from in course assignments, critical review of papers and exams. Where necessary exams may be taken at an alternative, convenient location.



Starting 13th March 2017

### Benefits - this module will enable you to:

- Understand the theory and principles/concepts underlying animal breeding and relate to problems in the pig and poultry industries;
- Perform calculations related to genetic analysis and breeding;
- Provide coherent and logical argument in support of particular breeding strategies;
- Develop breeding strategies based on genome-wide information as well as conventional markers.



**RVC** Royal Veterinary College  
University of London

 **ILHP**  
Intensive Livestock Health and Production

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