



GENOMIC APPROACHES with RANDOM REGRESSION (RR) MODELS-

Date: 14-16 September 2020

Daily Schedule: 10.00 a.m. – 03.p.m.

Instructors:

Raphael MRODE, *Ph.D., Professor of Quantitative Genetics and genomics, Scotland Rural College (SRUC), United Kingdom;*

Principal Scientist in Quantitative Dairy Cattle genetics at the International Livestock Research Institute (ILRI), Kenya.

Horia GROSU, *Ph.D, Senior Researcher, General Director of National Research & Development Institute for Biology and Animal Nutrition, Balotesti, Ilfov County, Romania, Professor of Animal Breeding, University of Agricultural Sciences and Veterinary Medicine, Faculty of Animal Science, Bucharest, Romania.*

Teaching activity:

Dr. Raphael MRODE-Theoretical aspects,

Dr. Horia GROSU-Practical aspects in R program.

Content of the Course

Chapter 1. RR Model, Single-trait, Single lactation,

Chapter 2. RR Model, Multiple-trait, Single lactation,

Chapter 3. RR Model, Single-trait, Multiple lactations.
Equal number of lactations/cow,

Chapter 4. RR Model, Single-trait, Multiple lactations.
Unequal number of lactations/cow,

Chapter 5. RR Model, Multiple-trait, Multiple
lactations. Equal number of lactations/cow,

Chapter 6. RR Model, Multiple-trait, Multiple lactations.
Unequal number of lactations/cow,

Chapter 7. Introducing Single step GBLUP with RR
Model, Single trait and single lactation. Unequal
number of lactations/cow.

Chapter 8. Single step GBLUP with RR Model, Single
trait and multiple lactation. Unequal number of
lactations/cow.

Chapter 9. Single step GBLUP with RR Model, Multiple-
trait, Multiple lactations. Unequal number of
lactations/cow.

We strongly recommend to the students to have knowledge
regarding R (programming language).

[https://en.wikipedia.org/wiki/R_\(programming_language\)](https://en.wikipedia.org/wiki/R_(programming_language))

*A registration fee of **100 Euro** should be payed for:*

**NATIONAL RESEARCH & DEVELOPMENT INSTITUTE
FOR BIOLOGY AND ANIMAL NUTRITION**

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