Genomic selection in rabbit breeding

**Organizers**

COST action TD1101:

**A Collaborative European Network on Rabbit Genome Biology – RGB-Net**

<http://www.biocomp.unibo.it/rabbit/>

**Trainer**

Dr. Ignacio Aguilar, INIA, Las Brujas, Uruguay

**Aim**

* to disseminate knowledge on rabbit breeding programs and selection
* to provide a practical training on programming and computer algorithms for quantitative and genomic selection

**Expected attendees**

Maximum 10 participants

* PhD students
* Post-docs
* Researchers who are willing to be introduced in genomic selection

**Location**

Instituto de Ciencia y Tecnlogía Animal. Edificio de Ciencia Animal (7G). Universidad Politécnica de Valencia. Camino de Vera s/n. Valencia 46022. Spain. icta@upvnet.upv.es · http://[www.icta.upv.es](http://www.icta.upv.es)

**Period**

June 24-28, 2013. Five full days from Monday morning to Friday afternoon

**Course Outline**

* Current breeding programs in rabbit: objectives and criteria of selection, models and methods for selection.
* The BLUPF90 family of programs.  Renumbering and analyses programs (BLUP, REML, GIBSS) for different models (animal model, maternal effects, random regression effects, threshold model).
* Introduction of genomic selection and methods to estimate SNP effects.
* SNP-BLUP and GBLUP.
* Creation and manipulation of genomic relationship matrices.
* Using BLUPF90 family programs for GBLUP, GREML, etc.
* Computing procedures for genetic evaluation including phenotypic, full pedigree, and genomic information. The single-step method to incorporate genomic information into genetic evaluations.
* Programs for quality control and genetic evaluation
* Single-step genome-wide association.
* Imputation

**Applications and Fellowships available**

RGB-Net has opened a call to obtain fellowships to attend the Training school. Candidates can apply sending to the Chair of RGB-Net (Prof. Luca Fontanesi, luca.fontanesi@unibo.it; and in CC to Nancy Ray, Nancy.Ray@toulouse.inra.fr; and Dr. Miriam Piles, miriam.piles@irta.es

* The Curriculum Vitae;
* A cover letter including, name, age, actual position, institution, and a letter of motivation to attend the school (why you would like to attend the school);
* A letter of presentation from the supervisor.

Please ZIP all your documents in just one Zipped file.

Granted fellowships will cover about 1000-1200 euro per person. Up to 12 fellowships will be granted by RGB-Net. Additional procedures will be completed by the applicants after their selection. More details will be provided.

**Deadline for application: May 19, 2013.
Final decision for selecting attendees: May 26, 2013.**

**Contacts**

* Miriam Piles (miriam.piles@irta.es) – RGB-Net WG2 leader
* Luca Fontanesi (luca.fontanesi@unibo.it) – RGB-Net Chair

**Accommodation**

**Colegio Mayor Galileo Galilei**

Edificio Galileo Galilei, Avenida de los Naranjos, s/n, 46022 Valencia

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<http://www.galileogalilei.com/#/es/reservas_y_precios/>

