

Frequencies of some B blood group alleles in laying hens from a selection and crossbreeding experiment

I. Edfors-Lilja, C. Weyde, B. Gahne, L.E. Liljedahl, M. Simonsen

▶ To cite this version:

I. Edfors-Lilja, C. Weyde, B. Gahne, L.E. Liljedahl, M. Simonsen. Frequencies of some B blood group alleles in laying hens from a selection and crossbreeding experiment. Annales de génétique et de sélection animale, 1982, 14 (1), pp.109-109. hal-00893408

HAL Id: hal-00893408

https://hal.science/hal-00893408

Submitted on 11 May 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

SESSION IV

COMMUNICATIONS LIBRES ET RAPPORT DES GROUPES DE TRAVAIL

Proteins of the milk and genetic variants in certain sheep populations of Sicily (Barbaresca-Siciliana)

L. CHIOFALO and P. MICARI

Institute of Zootechny, Faculty of Veterinary Science, University of Messina, Italy

After giving information on the origins and the breeding of the *Barbaresca-Sicilian* sheep, the authors refer the results of an electrophoretic assay (pH 8.6 starch gel) on the individual milk of 200 subjects chosen by chance in diverse districts of Sicily.

Proteins of the whey: the pathways present one single constant band of β -lactoglobulin, whereas for the α -lactoalbumin there were band A and the variant with a genic frequency of 0.5 p. 100 of the B allele. Caseins: the most common result is 3 bands in the α_8 -Cn zone and 2 bands in the β -Cn zone. It is also possible to observe 2 (20 subjects) and 4 (2 subjects) bands in the α_8 zone and 3 bands (22 subjects) in the β -Cn zone.

In the conclusions the authors underline the possibility of utilizing the obtained data in the selection of the considered race-population which, as is well-known, is bred for the production of milk and meat.

Frequencies of some B blood group alleles in laying hens from a selection and crossbreeding experiment

I. EDFORS-LILJA *, C. WEYDE *, B. GAHNE *, L.E. LILJEDAHL * and M. SIMONSEN **

* Dept of Animal Breeding and Genetics, Swedish University of Agricultural Science, S-750 07 Uppsala, Sweden

> ** Dept of Experimental Immunology, University of Copenhagen Norre Allé 71, DK-2100 Copenhagen, Denmark

The frequencies of four B blood group alleles (B^{ts} , B^{ts} , B^{ts} and B^{tt}) were studied in a 647 hens and 214 cocks obtained from a Scandinavian selection and crossbreeding experiment. The lines were selected for number of eggs, egg weight and for egg weight and egg number combined into a selection index, respectively. The selection lines differed from the control line with regard to B allele frequencies. Some associations were found between the different B alleles and production traits such as age at first egg, number of eggs, egg mass and rate of lay.