

Resource Summary Report

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UK Sheep Genome Mapping Project

RRID:SCR_002272

Type: Tool

Proper Citation

UK Sheep Genome Mapping Project (RRID:SCR_002272)

Resource Information

URL: <http://www.projects.roslin.ac.uk/sheepmap/front.html>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented August 23, 2016. The project aims to apply genome mapping research to sheep, utilizing previous research in sheep (in other countries) and in other species (in the UK and abroad) to the benefit of the UK sheep industry. The project itself uses existing breeding structures, knowledge of the sheep genome and experimental resources. It has three main aims: i) To use the Suffolk, Texel and Charollais Sire Referencing Schemes to detect and verify quantitative trait loci (QTLs) for growth and carcass composition traits ii) To investigate candidate genes and/or chromosomal regions for associations with production traits. iii) To investigate approaches for optimizing future genotyping strategies within the sire referencing schemes for practical and cost effective application of marker-assisted selection By using commercial breeding populations for the research, immediate application of beneficial results is possible. Potential benefits include increased genetic progress through marker assisted selection which utilizes the genotype information, correction of possible parentage errors (ultimately leading to additional genetic progress) and opportunities for using marker information for product certification. The project will benefit the UK sheep industry by the use of Marker Assisted Selection (MAS) utilizing QTL or gene variants identified in the project. Additional benefits may arise from parentage verification and correction of errors e.g. misallocation of lamb to ewe. In the longer term, opportunities may exist to use markers for quality control, tracing products to their source. The major advantage of the design of this project is that the results are immediately applicable to the breeding schemes within which the QTLs and/or genes are detected. The time lag in the application of the results that is often seen with experimental populations is minimized. The project requires close involvement with the Sire Reference Schemes, in return for their assistance the results have immediate benefit to animals within these groups.

Synonyms: UKSGMP

Resource Type: topical portal, data or information resource, database, portal

Keywords: gene, animal, breed, breeding, chromosomal, chromosome, genome, genotype, genotyping, lamb, map, mapping, marker, population, production, region, sheep, specie, structure, trait

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: UK Sheep Genome Mapping Project

Resource ID: SCR_002272

Alternate IDs: nif-0000-20995

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260801T190725+0000

Ratings and Alerts

No rating or validation information has been found for UK Sheep Genome Mapping Project.

No alerts have been found for UK Sheep Genome Mapping Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Fadiel A, et al. (2005) Farm animal genomics and informatics: an update. Nucleic acids research, 33(19), 6308.