GENERAL INFORMATION

1. Title of Dataset: Genomic patterns of homozygosity and inbreeding depression in Murciano-Granadina goats.

2. Date of data collection: Lactation records were collected between the years 2009 and 2017.

3. Geographic location of data collection: Cordoba, Andalusia, Spain.

DATA & FILE OVERVIEW

1. File List:

**Murciano-Granadina-1040F.ped**: Genotypic information of 50,514 SNPs genotyped in 1,040 Murciano-Granadina female goats obtained with the Goat SNP50 BeadChip (Illumina Inc., San Diego, CA).

**Murciano-Granadina-1040F.map**: Genomic positional information of the SNPs genotyped in 1,040 Murciano-Granadina female goats.

**Pheno\_file.txt**: Milk production records from 820 Murciano-Granadina goats. Milk composition traits are normalized to a lactation of 210 days.

2. Relationship between files: “.map” and “.ped” files are complementary, “.map” contains the genomic position and name of the genotypes displayed in “.ped” file. Files can be opened and manipulated with PLINK software (<https://www.cog-genomics.org/plink/>).

3. Are there multiple versions of the dataset? No.

DATA-SPECIFIC INFORMATION FOR:

* **Murciano-Granadina-1040F.ped**

1. Number of variables: 7.

2. Number of cases/rows: 1,040.

3. Variable List:

* Breed ID
* Individual ID
* Paternal ID
* Maternal ID
* Sex (1=male; 2=female; other=unknown)
* Phenotype
* Genotype

4. Missing data codes: “-9”

* **Murciano-Granadina-1040F.map**

1. Number of variables: 4.

2. Number of cases/rows: 50,514.

3. Variable List:

* Chromosome name.
* SNP ID
* cM
* Position MB

4. Missing data codes: “0”

* **Pheno\_file.txt**

1. Number of variables: 10.

2. Number of cases/rows: 820.

3. Variable List:

* Farm: farm ID.
* IID: animal ID.
* FP: fat percentage (%).
* PP: protein percentage (%).
* LP: lactose percentage (%).
* SCC: somatic cell count.
* lnSCC: natural logarithm of the somatic cell count divided by 1,000.
* MY210: Kg of milk produced at 210 of lactation.
* MY240: Kg of milk produced at 240 of lactation.
* MY305: Kg of milk produced at 305 of lactation.

4. Missing data codes: “-”