

Resource Summary Report

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Pig Genome Mapping

RRID:SCR_012884

Type: Tool

Proper Citation

Pig Genome Mapping (RRID:SCR_012884)

Resource Information

URL: <http://www.roslin.ed.ac.uk/alan-archibald/porcine-genome-sequencing-project/>

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Description: Map of identified genes controlling traits of economic and welfare significance in the pig. The project objectives were to produce a genetic map with markers spaced at approximately 20 centiMorgan intervals over at least 90% of the pig genome; to produce a physical map with at least one distal and one proximal landmark locus mapped on each porcine chromosome arm and also genetically mapped; to develop a flow karyotype for the pig based on FACS sorted chromosomes; to develop PCR based techniques to enable rapid genotyping for polymorphic markers; to evaluate synteny conservation between pigs, man, mice and cattle; to develop and evaluate the statistical techniques required to analyze data from QTL mapping experiments and to plan and initiate the mapping of QTLs in the pig; to map loci affecting traits of economic and biological significance in the pig; and to develop the molecular tools to allow the future identification and cloning of mapped loci. Animal breeders currently assume that economically important traits such as growth, carcass composition and reproductive performance are controlled by an infinite number of genes each of infinitesimal effect. Although this model is known to be unrealistic, it has successfully underpinned the genetic improvement of livestock, including pigs, over recent decades. A map of the pig genome would allow the development of more realistic models of the genetic control of economic traits and the ultimately the identification of the major trait genes. This would allow the development of more efficient marker assisted selection which may be of particular value for traits such as disease resistance and meat quality.

Abbreviations: PiGMaP

Synonyms: PGM

Resource Type: atlas, database, data or information resource, image collection

Defining Citation: [PMID:7749223](#)

Keywords: gene, genetic, artificial chromosome, bacteriophage, biological, carcass, cattle, cdna, comparative, disease, genome, genotype, growth, human, karyotype, linkage, livestock, locus, map, mapping, marker, mice, molecular, p1, pig, quality, quantitative, sus scrofa, trait, yeast

Resource Name: Pig Genome Mapping

Resource ID: SCR_012884

Alternate IDs: nif-0000-20987

Old URLs: <http://www.projects.roslin.ac.uk/pigmap/pigmap.html>

Record Creation Time: 20220129T080313+0000

Record Last Update: 20260803T040603+0000

Ratings and Alerts

No rating or validation information has been found for Pig Genome Mapping.

No alerts have been found for Pig Genome Mapping.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.