New information on the ancestry of modern South American chicken

Project Title: P725 - Activity 1.1.1: Livestock Landscape Genetics

Description of the innovation: The innovation is the new knowledge on the ancestry of modern South American chicken. Next users include population geneticists, bioinformaticians, and animal breeders. This research finding shows that modern-day South American chickens appear to have clear European and Asian contributions, and less so from Island Southeast Asia and the Pacific Islands. Furthermore, there is also some indication that South Asia has more genetic contribution to European chickens than any other Asian chicken populations.

New Innovation: No

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Genetic (varieties and breeds)

Geographic Scope: Regional

Number of individual improved lines/varieties: <Not Defined>

Region:

- South America

Description of Stage reached: Journal article on European/Asian contribution to the genetic diversity of mainland South American chicken. Better understanding of the origins of chicken genome diversity may guide ex-situ conservation priorities, and contribute to discovery of genetic variants for economic and ecologically important traits and admixture analysis of an individual animals breed composition.

Name of lead organization/entity to take innovation to this stage: University of Adelaide

Names of top five contributing organizations/entities to this stage:

- The University of Sydney
- ILRI - International Livestock Research Institute
- UNAL - Universidad Nacional de Colombia

Milestones: No milestones associated

Sub-IDOs:

- 12 - Increased conservation and use of genetic resources

Contributing Centers/PPA partners:

- ILRI - International Livestock Research Institute

Evidence link:

- https://cgspace.cgiar.org/handle/10568/107366

Deliverables associated:

- D27245 - European and Asian contribution to the genetic diversity of mainland South American chickens (https://cgspace.cgiar.org/handle/10568/107366)

Contributing CRPs/Platforms:

- Livestock - Livestock