The Tropical Dairy Genomics Program of the Centre for Tropical Livestock Genetics and Health

ILRI LiveGene Strategy Meeting
16 May 2016, Nairobi, Kenya

Karen Marshall, ILRI
The dairy genomics program of CTLGH aims to facilitate the application of genomics to dairy production in the tropics, for increased livestock productivity, enhanced livelihoods of the rural poor, increased food and nutritional security, and a more sustained environment.

This will be achieved through:

- Identifying key applications of genomics to dairy production in the tropics and advocating on these
- Supporting the development of tools and methodological approaches to facilitate the above identified applications
- Capacity building
- Partnering in research and resource mobilisation
Tools under-development 2016 / 2017 are:

- Genomics Information Resource for Cattle in Africa - a collated and publically accessible set of genomic information on cattle breeds in Africa (both indigenous and exotic)
- Low-cost genotypotyping platform for African cattle – such as customized SNP-chip(s) that are genotyped through the private sector
- Smart tool for determining the breed composition of African cattle
Other initiatives

Identifying key applications of genomics to dairy production in the tropics
→ engagement process of stakeholders and experts

Facilitating tropical dairy genomics research for development (R4D) through development of an international consortium

Will first assess international interest

Technical feasibility

Potential for impact

Capacity building
The Centre for Tropical Livestock Genetics and Health (CTLGH) is a joint venture between the International Livestock Research Institute, the University of Edinburgh, & Scotland’s Rural College, currently funded by the Bill and Melinda Gates Foundation and the CGIAR Livestock and Fish CRP.

**CTLGH Dairy Genomics Program co-leads**

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