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Genetic selection barriers in global development of rural goat production and a simplified approach in identification of proper polymorphic types

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This work presents the different barriers in genetic selection for global development of goat production in poor rural communities and the success in establishing a simplified optimized genetic protocol for selecting proper polymorphic types. The major barriers in establishing genetic selection programs for global developments of goat production include the present decline in funding research by world organizations for rural development of goat production, the 'Land Grab' approach of cash-acquired countries aiming at monoculture-agriculture, the migration of rural farmers to cities, and the diminishing water resources due to global warming.

The application of a simplified genetic protocol for selecting proper polymorphic types of goats is expected to improve their production and health, helping indirectly to improve the livelihood of poor rural farmers. The optimization of our simple genetic protocol resulted in identification of the high potential polymorphic goat types based on markers in genes that affect production, immunity, and resistance to transmissible Spongiform Encephalopathy.

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