

## Genomic Selection of Superior Nili Ravi Buffalo Bull for Increasing Milk Production in Pakistan

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Milk production enhancement holds promise for the prosperity and progress of Pakistan. Bull selection is important as compared to dam due to its status of half herd [1]. Genotyping by sequencing (GBS) approach is simple and highly multiplexed system to construct libraries for next generation sequencing (NGS) [2]. It is expected that such selection will be more reliable and help to promote dairy industry [3]. Blood samples will be collected from physically healthy male calves. Then genomic DNA will be extracted followed by restriction digestion of whole genome. GBS will be designed for efficient genotyping of large number of samples using NGS platform. Genome complexity will be reduced with methylation-sensitive restriction enzyme digestion. Genome analyses of selected animals will immensely help to increase milk production and also help to improve economy and health status.

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3. J.Kearney (2010) Food consumption trends and drivers, *Philos Trans R Soc Lond B Biol Sci.*, **365(1554)**:2793–2807