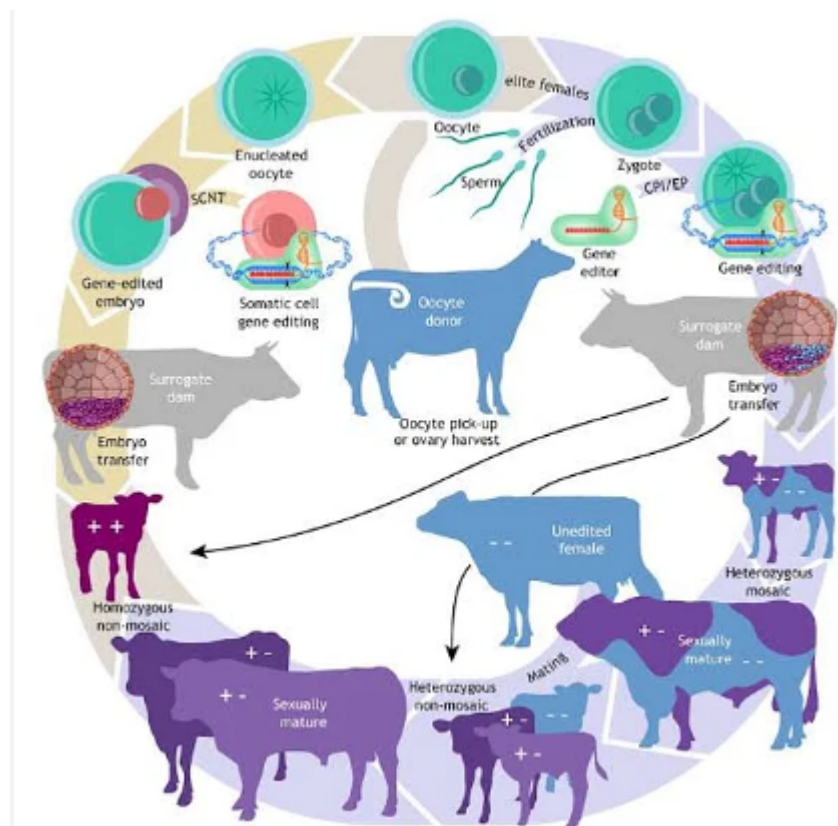




CATTLE GENOMICS SCHEME

This article covers “**Daily Current Affairs**” and the topic details “**Cattle Genomics Scheme**”.
The topic “**Cattle Genomics Scheme**” has relevance in the “**Economy**” section of the **UPSC CS**



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• What is the Cattle Genomics Scheme?

The Cattle Genomics Scheme has garnered significant attention in the news due to its multifaceted approach and potential impact on farmers and the rural economy.

Cattle Genomics Scheme:

- The Cattle Genomics Scheme, launched by the **Department of Biotechnology (DBT)** in collaboration with the Union Ministry of Science and Technology and Earth Science, aims to empower farmers and bolster the rural economy.

Importance of Cattle Genomics Scheme:

- **Poverty Reduction and Rural Livelihoods:** Livestock's significant role in reducing poverty and supporting rural livelihoods.
- **Meeting Growing Demand for Animal Products:** Increasing demand for animal food products by 2020 highlights the need to enhance livestock productivity.
- **Overcoming Limitations of Traditional Selection:** Traditional selection methods for genetic improvement have inherent limitations. Genomic selection provides a more precise and sustainable alternative.
- **Cost and Time Reduction with High-Density DNA Chips:** Development of high-density DNA chips reduces the cost and time required for breeding programs.

Benefits of Cattle Genomics:

- **Improved Cattle Health:** Genomic tools contribute to enhancing cattle health, particularly in combating infectious diseases.
- **Reducing Economic Burden of Infectious Diseases:** Genomic selection minimises the economic burden associated with infectious diseases, reducing reliance on vaccines and antibiotics.
- **Development of Disease-Resistant Livestock:** Genomic tools facilitate the creation of breeding programs focused on developing less susceptible livestock.

Future Application of Cattle Genomics Scheme:

- **Enhancing Production Performance and Disease Resistance:** Research in cattle germplasm improvement is crucial for enhancing production performance and disease resistance.
- **Global Adoption of Genomic Selection:** Genomic selection has successfully been applied in various countries, predicting economically important traits and disease susceptibility.
- **Accelerating Genetic Gains in Developing Countries:** Developing nations like India are adopting genomic selection to expedite genetic improvements in large animals.

If you want to get full information about this topic, then you can read about it on our website by click here - [Yojna IAS](#)

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