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## Genetics and Genomics of Livestock Health, Fertility and Product Quality

**Edited by: Michael E. Davis**

The global population is expected to approach 10 billion people by 2050, with the expectation that the economic status of individuals in developing countries will continue to improve. As a result, worldwide demand for animal products is expected to increase by 70% by 2050. Increasing animal production will require a deep understanding of animal biology through genetics and genomics to feed the world's growing population. Furthermore, consumers desire high-quality products. Concurrently, farmers need to combat diseases in the face of increased antimicrobial resistance and pressure from consumers and regulators to minimize the use of antibiotics. Genetics and genomics will play key roles in improving the efficiency of production systems. Genetic selection and innovations must target animal production, product quality, reproduction, health, and welfare to ensure a high-quality, safe, healthy, and affordable food supply is available worldwide.

