



Livestock Epigenetics

Hasan Khatib (Editor)

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DESCRIPTION

Livestock Epigenetics reviews advances in the understanding of the molecular basis of epigenetic mechanisms in gene expression in livestock species. Epigenetics impact many economically important traits from growth and development to more efficient reproduction and breeding strategies. The book opens with a broad introductory chapter that discusses the importance of an understanding of epigenetics to efficient and sustainable livestock production. In subsequent chapters the role of epigenetics in specific aspects of animal production are reviewed. The final chapter provides researchers with a valuable basis for the use of comparative epigenetics research to allow research to apply advances across organisms. *Livestock Epigenetics* provides detailed information on this rapidly expanding field of research with contributions from a global team of experts.

ABOUT THE AUTHOR

Hasan Khatib, Associate professor of Dairy Science. He earned his BS degree in Biology (1985), MS degree in Human Genetics (1988), and Ph.D. in Genetics (1995) at The Hebrew University of Jerusalem-Israel. From 1997 to 2001 Dr. Khatib had an appointment in teaching strategies of teaching and sciences at David Yellin College in Jerusalem. Prior to joining the faculty at UW-Madison in 2002, he served as genetic counselor in Israel on prevention of genetic diseases among Palestinians and a director of the Institute for Genetic Identification in Israel. Dr. Khatib's current research interests are identification of genes of economic importance in dairy cattle (milk production, health and reproduction traits) and studying the imprinting status of the cattle genome and investigating sequence characteristics of imprinted genes in mammalian species.

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