Animal genetics is a foundational discipline in the fields of animal science, animal breeding, and veterinary sciences. While genetics underpins the healthy development and breeding of all living organisms, this is especially true in domestic animals, specifically with respect to breeding for key traits.

*Molecular and Quantitative Animal Genetics* is a new textbook that takes an innovative approach, looking at both quantitative and molecular breeding approaches. The book provides a comprehensive introduction to genetic principles and their applications in animal breeding. This text provides a useful overview for those new to the field of animal genetics and breeding, covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology. *Molecular and Quantitative Animal Genetics* will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals.

Divided into six sections pairing fundamental principles with useful applications, the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level.
Hasan Khatib is an Associate Professor in the Department of Dairy Science at the University of Wisconsin-Madison. Dr. Khatib has taught a variety of undergraduate and graduate courses on animal breeding and genetics. He is also the lead editor of Livestock Epigenetics published by Wiley in 2012.

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