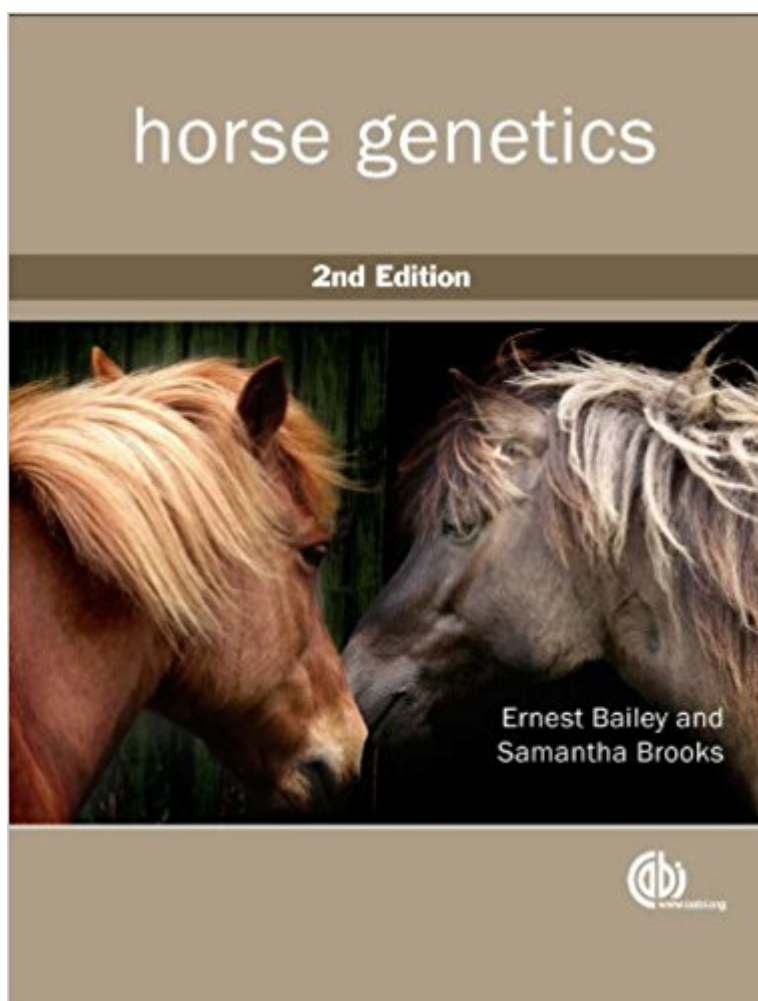


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# Horse Genetics



## Synopsis

There are over 250 breeds of horses worldwide, with different abilities, temperaments and phenotypic traits that have developed and diversified for thousands of years since horses were first domesticated by humans. This essential textbook describes the basic genetics of the horse including coat color, parentage, medical and population genetics, cytogenetics, performance, breeding systems and genetic conservation, and new advances such as micro-satellite testing. The authors have updated Dr. Ann T. Bowling's seminal work in light of the sequencing of the complete horse genome, and in addition to the basic genetic principles and their specific applications to the horse, new and revised topics include the development of genomics, gene expression, the relationship of the genome to physiological function, blood groups, transfusion medicine and haemolytic disease of newborn foals. It also includes a greater description of the diversity of breeds of horse in the world, and equid evolution. It is an essential book for students of equine studies, animal breeding and veterinary science, as well horse breeders and owners.

## Book Information

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## Customer Reviews

From reviews of the first edition: "...an excellent introduction into genetics as applied to Horses...also highly recommended for practical horse breeders. It's a must for all people interested in horses and in the genetics of horses." (Livestock Production Science) "...highly recommended as a clear and readable review of horse genetics." (The Veterinary Record) "If you have been waiting for a clear, concise and authoritative discussion of horse genetics, here it is...an important addition to any

equine library." (Arabian Visions)

Ernest Bailey is at the University of Kentucky. Samantha A. Brooks is at Cornell University.

The book *Horse Genetics Second Edition* by Dr Samantha Brooks and Dr Ernest Bailey is an excellent source of information for students new to Equine Genetics. It is written in very technical terms, but in such a way unknowledgeable people can perceive the subject. It covers most equine breeds in the U S today and highlights the specific potential problems that are common with each breed. History of equine genetics and DNA development is presented and discussion of fast-moving technology and how fast changes occur because of it are presented. The book is an excellent reference for horse breeders as it points out the good and bad points of each breed, as mentioned above. Dr Brooks and Dr Bailey have produced an excellent text books for students wanting a single place to find information about today's horses vis-a-vis horse color, parentage, equine diseases, etc. The book is very thorough and well written.

excellent book. I like the technical genetics information discussing each gene mutation. There was enough to keep me interested yet not so much to confuse someone with minimal exposure to basic genetics. I hope that edition 3 is in the works to update us on recent findings.

**BEST EQUINE GENETICS BOOK!** If you want to learn more about horse genetics, in a very easy language with a lot of examples and some really good photos, you should get this book!

This book is clearly written and a comprehensive look at what is known about the inheritance of genes controlling horse color as well as some of the important genetic diseases of horses.

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