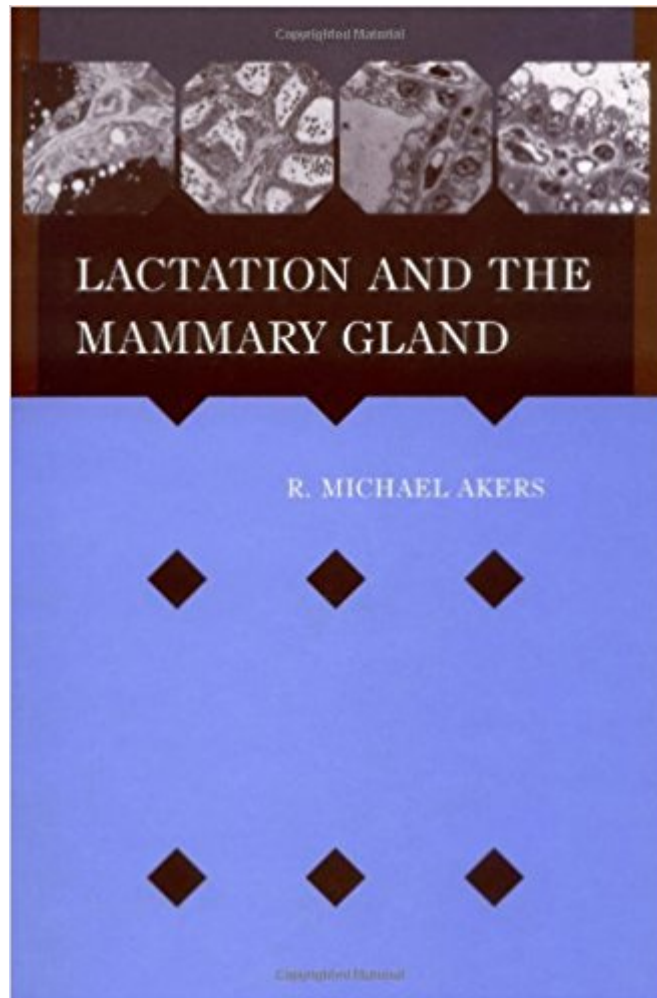




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# **Lactation And The Mammary Gland**



## Synopsis

Michael Akers provides the basics for understanding mammary development and lactation and conveys the critical regulatory events in lactation. This text will prove to be an invaluable overview of mammary development and lactation for undergraduates and graduates studying lactation, new researchers, and as a review for established scientists. Additionally, the book will be an important resource for professionals in the animal and dairy industry and for those in other scientific disciplines such as food chemistry, cell biology, and endocrinology whose work is closely tied to mammary gland development and function. Lactation and the Mammary Gland covers growth and development of the mammary gland including comparisons between species. It imparts and emphasizes the critical nature of mammary growth and the onset of lactation at the time of parturition. Special emphasis is given to the endocrine and growth factor regulation of both mammary development and lactogenesis. A thorough discussion of the role of growth hormone in development and maintenance of lactation or galactopoiesis adds to this book's value as a text and reference. The author reviews the presence of hormones, growth factors, and other bioactive compounds in milk and mammary secretions as well as the potential for use of the mammary gland as a bioreactor in the pharmaceutical industry. A description of the nutritional and management factors in milk production round out the book's comprehensive coverage.

## Book Information

Hardcover: 270 pages

Publisher: Wiley-Blackwell; 1 edition (July 2, 2002)

Language: English

ISBN-10: 0813829925

ISBN-13: 978-0813829920

Product Dimensions: 7.2 x 0.8 x 10.3 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 3 customer reviews

Best Sellers Rank: #767,896 in Books (See Top 100 in Books) #85 in Books > Medical Books > Veterinary Medicine > Anatomy & Physiology #407 in Books > Textbooks > Medicine & Health Sciences > Veterinary Medicine > General #505 in Books > Politics & Social Sciences > Anthropology > Physical

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Lactation is not just cornerstone of the dairy industry-it is also vital too the successful rearing of

livestock and companion animals, to human infant growth and well being, and to researchers in a range of scientific disciplines. Lactation and the Mammary Gland provides the basics for understanding mammary development and lactation and conveys the critical regulatory events in lactation. Covers growth and development of the mammary gland, including comparisons between species. Imparts the critical nature of mammary growth and the onset of lactation at the time of parturition. Emphasizes the endocrine and growth factor regulation of both mammogenesis and lactogenesis. Discusses the role of growth hormone in development and maintenance of lactation. Reviews the presence of hormones, growth factors, and other bioactive compounds in milk and mammary secretions as well as the potential for use of the mammary gland as a bioreactor in the pharmaceutical industry. Describes the nutritional and management factors in milk production.

R. Michael Akers, PhD., is the Horace E. and Elizabeth F. Alphin Professor, Department of Dairy Science, Virginia Polytechnic Institute and State University, Blacksburg. He has received numerous awards for research excellence and is active as a speaker and scholarly author in the area of lactation physiology.

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