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mammary gland cell : proliferation and DNA synthesis in vivo and in vitro""

""Interrelationship between the mammary gland growth and differentiation""""Possible mechanisms and effectors involved in the mitogenic action of hormones on mammary gland cells""; ""Summary and conclusions""; ""4. Multi-faceted regulation of cell differentiation by extracellular matrix Claudia Q. Lin, Mina J. Bissell""; ""Introduction""; ""The mammary gland""; ""ECM regulation of hepatocyte function""; ""Regulation of keratinocyte function by ECM""; ""Conclusion""; ""5. Oncogenes, tumor suppressor genes and mammary tumors P. Hainaut, P. Berthon, M. Crepin""; ""Introduction""
""Risk factors for breast cancer in women""""Molecular lesions in the progression of cancer""; ""Mammary tumors in experimental animals""; ""Genetic changes associated with human breast cancer""; ""Interrelations between hormones, growth factors and the products of cancer genes""; ""Concluding remarks : multiple steps involved in breast cancer progression""; ""6. Multifactorial regulation of prolactin secretion from lactotroph cells : transduction mechanisms A. Enjalbert""; ""Multifactorial regulation""; ""Transduction mechanisms in lactotroph cells""
""Multiple coupling mechanisms of membrane receptors""""7. Prolactin-secreting adenomas and functional hyperprolactinemia F. Peillon""; ""Prolactinomas""; ""Functional hyperprolactinemia""; ""Pathophysiology""; ""8. Structure, function and expression of prolactin receptors in mammals Marc Edery, Paul A. Kelly""; ""Structure of prolactin receptor""; ""Prolactin receptor expression in the mammary gland""; ""Signal transduction pathways""; ""Knock-out mice""; ""9. Physiology and biochemistry of lactogenesis : stimulation by antiprogesterones Ricardo P. Deis, Antoine Perier, Graciela A. Jahn""
""Lactogenesis and parturition""

Sommario/riassunto

A presentation of the most fundamental features of the biology of the mammary gland, a unique model of an organ capable of an abundant synthesis of proteins: endocrinology of lactation, role of prolactin, genetics and protein synthesis, immunology and the mammary gland, nutrition and dairy products. Readership: students, teachers, researchers, health and agriculture professionals. Lactation Biology was first published in French in 1993. The English version is not merely a translation: it has been updated by the author. The French version of this book, Biologie de la lactation, is available on our website. La version française de ce titre, Biologie de la lactation, est disponible sur notre site.
