



Gene Quantification (Hardback)

By -

BIRKHAUSER BOSTON INC, United States, 1998. Hardback. Book Condition: New. 1998 ed.. 234 x 156 mm. Language: English . Brand New Book ***** Print on Demand *****. Geneticists and molecular biologists have been interested in quantifying genes and their products for many years and for various reasons (Bishop, 1974). Early molecular methods were based on molecular hybridization, and were devised shortly after Marmur and Doty (1961) first showed that denaturation of the double helix could be reversed - that the process of molecular reassociation was exquisitely sequence dependent. Gillespie and Spiegelman (1965) developed a way of using the method to titrate the number of copies of a probe within a target sequence in which the target sequence was fixed to a membrane support prior to hybridization with the probe - typically a RNA. Thus, this was a precursor to many of the methods still in use, and indeed under development, today. Early examples of the application of these methods included the measurement of the copy numbers in gene families such as the ribosomal genes and the immunoglo- bulin family. Amplification of genes in tumors and in response to drug treatment was discovered by this method. In the same period, methods were...



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