



Advanced Molecular Diagnostic Techniques: Principles and Applications

By Sukdeb Nandi

Satish Serial Publishing House, 2016. Hardcover. Book Condition: New. 1st Edition. Efficient control of diseases of animals and ensuring a particular animal health status require appropriate diagnostic measures. Laboratory diagnosis concentrates on both identification of the agent (antigen identification) and measurement of the immune response against the pathogen (antibody detection). However, even when applying both approaches, the diagnosis of certain infections is ineffective and too cumbersome, for example during latent infections in BHV1, when there is little chance of detecting the virus DNA by conventional diagnostic techniques. With the advent of genetic engineering of biotechnology, a galaxy of new methods/techniques is available to the diagnosticians and animal health officers to diagnose the infectious disease of diverse pathogen origin promptly, accurately and economically. The latest methods offer specificity and sensitivity well above the conventional methods providing the opportunity of taking more effective control measures due to quick availability of the results. In the past 30 years, veterinary diagnosticians have incorporated new molecular techniques such as the PCR, real time PCR, LAMP, other nucleic acid based technologies, microarray, viral metagenomics, nanotechnology, lateral flow assay, biosensors, flow cytometry etc. for prompt, accurate, specific and sensitive detection of pathogens besides a number of other...



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