**Molecular approaches for plant disease diagnosis.**

A talk on molecular approaches for plant disease diagnosis was held on 6.7.18. at seminar hall.Dr.Shiji Thomas inaugurated the program and Dr. Silji Abraham presided over the function. He is working as a senior scientist in Phytochrome biosciences. Nasidha of final year B.Sc microbiology gave vote of thanks.

Rapid advancements in biotechnologies have led to the development of a myriad of molecular diagnostic tools in the past decade. These tools, either based on the properties of nucleic acid (DNA or RNA) or proteins of the target agents, have improved the efficacy, accuracy, and speed of detection and identification of disease causing agents and characterization of the

diversity of pathogens and pests. In biotechnology various molecular technique involve especially molecular marker for the detection, identification, quantification and characterization of plant pathogens that incites diseases in plants. As new molecular testing devices gain wide acceptance in medical diagnostics, tools for routine monitoring of pathogens and beneficial organisms should become more commonly used in plant pathology if we successfully manage to adapt these technologies to a wide range of microorganisms and substrates.

Apart from the theoretical knowledge the talk mainly highlighted on the application level and also on the modern technology development for pathogen detection.