



Bacterial, Phage and Molecular Genetics

By W. Rüger

Springer Mai 1976, 1976. Taschenbuch. Book Condition: Neu. 244x170x13 mm. This item is printed on demand - Print on Demand Neuware - During the mid-forties bacteria and phages were discovered to be suitable objects for the study of genetics. Genetic phenomena such as mutation and recombination, which had already been known in eukaryotes for a long time, were now shown to exist in bacteria and phages as well. New phenomena as lysogeny and transduction were discovered, which gained great importance beyond the field of microbial genetics. Bacteria and phages are of small size, multiply rapidly, and have chemically defined growth requirements. Many selective procedures can be applied to screen for rarely occurring mutants or recombinants. Therefore, they offered ideal conditions to investigate genetic processes and to interpret them in molecular terms. Many new methods were developed (e. g. CsCl density gradient centrifugation) and old techniques were improved and modified for new purposes (e. g. chemical mutagenesis). Hypotheses, such as the semiconservative replication of DNA, mutation by transition and transversion and operon regulation, have had an extraordinarily stimulating effect on the research in general genetics. Thus, in the past two decades, from the...



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