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recombinant dna and gene cloning are essential tools for research in molecular microbiology and medicine they have many medical applications including development of new vaccines biologics diagnostic tests and therapeutic methods understanding how genes work and how they are controlled is essential to identify novel or unexploited bacterial gene products that can serve as targets for antibiotics and kill bacteria by completely different mechanisms from existing drugs microbial genetics is a subject area within microbiology and genetic engineering microbial genetics studies microorganisms for different purposes the microorganisms that are observed are bacteria and archaea some fungi and protozoa are also subjects used to study in this field genetics in microbiology charles j dorman much of our understanding of mutation genome rearrangement dna repair dna recombination mechanisms dna replication dna transfer gene regulation and much more has come from fundamental research in microbes microbial genetics is the study of the mechanisms of heritable information in microorganisms including bacteria archaea viruses and some protozoa and fungi although many aspects of genetics are universally shared variations do exist among contemporary genetic systems we now know that within the shared overall theme of the genetic mechanism there are significant differences among the three domains of life eukarya archaea and bacteria microbiology is at a turning point in its 120 year history widespread next generation sequencing has revealed genetic complexity among bacteria that could hardly have been imagined by pioneers such as pasteur escherich and koch the microbiology department harbors a collaborative scientific community whose members share a passion for microbes and scientific exploration we are uncovering the mechanisms used by diverse microbes to survive in nature and to interact with host organisms genetics and molecular microbiology explains that advances in sequencing techniques and the development of automated sequencing methods have allowed scientists to sequence the genomes of 4 000 bacterial genomes 200 archaea and 200 eukaryotes the aim of the section microbial genetics and genomics is to provide a platform for current research on archaea bacteria microbial eukaryotes and viruses we welcome studies that apply recent advances in genetics genomics transcriptomics proteomics metabolomics and computational biology to provide insights into all aspects of molecular genetics microbiology and virology is a peer reviewed journal focusing on themes indicated in its title covers a wide range of research topics including the genetic machinery of microorganisms molecular and genetic elements of eukaryotic cells function of chromosomes and chromatin and genetic changes in malignant degeneration current investigations include the study of cancer causing viruses gene expression mechanisms of persistence and pathogenesis the host immune response molecular based strategies to combat infectious disease and the use of viruses as vectors for human gene therapy a plasmid is a small dna molecule that is physically separate from and can replicate independently of chromosomal dna within a cell plasmids are commonly used to multiply make many copies of or express particular genes 7 4a introduction to plasmids 7 4b types of plasmids and their biological significance whether you re seeking a b s or a m s in microbiology or molecular genetics you ll find our department has broad teaching and research strengths ranging from molecular structural and computational biology to cellular and pathogenic microbiology and immunology the department microbiology and immunology has been the home for world class research programs in areas ranging from microbial pathogenesis immunology and model organism genetics to cancer biology since its founding in 1970 as the department of microbiology and later the department of molecular genetics microbiology welcome to the department of microbiology genetics immunology at michigan state university microbiology and molecular genetics upcoming events mic 291 seminar angie gelli fungi at the gate mechanisms driving fungal neuro invasion jun 5 2024 4 10pm 5 00pm green hall room 1022 event details latest news chiu and miller 1 introduce metagenomic next generation sequencing and emphasize how this technology is being leveraged for clinical purposes from infectious disease diagnostics and human

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