

Future Scope for Genetics and Genomes

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The Journal of Genetics and Genomes is an open-access journal which provides an important forum for the publication of articles in the core areas of genetics such as: classical/mendelian genetics, developmental genetics, cytogenetic, population genetics, gene function and expression, molecular genetics, mutation and repair, biochemical genetics, human genetics, medical genetics. The Journal is a comprehensive repository of the latest advancements in genetics. Various scopes for journal are in detail below.

Growth, development, reproduction, susceptibility and immunity to diseases are associated with genetic structure and functioning. Genetic sequences are subject to change owing to multitude of factors resulting in altered expression. Journal of Genetics and Genomes gives latest information on the developments in gene functioning, heredity and allied techniques from across the world.

Applied Genetics

It is the process of using gene theories to produce a genetic product. It applies the GENE-CHROMOSOME THEORY. It includes selective breeding, Inbreeding, Genotypes etc

Bioinformatics and Computational Biology

Bioinformatics and Computational Biology is program which aims to develop novel, cutting-edge software and data management tools to effectively used in wealth of biomedical data generated from modern laboratory techniques and helps to data sharing to researchers. The Bioinformatics and Computational Biology program covers the research areas like systems biology, image analysis, biomedical ontologies, biophysical modeling, information integration tools for gene-phenotype and disease analysis, and health information modeling and analysis.

Breeding and Germplasm Development

Breeding and Germplasm Development is a most common and important technique used to develop new plants from the

germplasm. Germplasm can be described as living cell or tissue from which new plants can be grown. The collaboration between the germplasm curator and the plant breeder who need to work together to understand the scope and value of germplasm development.

Cancer Genetics

Cancer is a genetic disease. It involves abnormal growth of cells. Cancer genetics is the study genes that can cause tumor or hematological malignancy in human or other animals. It includes mutations in the DNA. Genetic changes that occur after conception are called somatic changes. They arise at any time during a person's life.

Conservation and Restoration Genetics

Conservation and Restoration Genetics helps to maintain a genetic blueprint for living organisms. Conservation genetics is still is relatively small field, and restoration genetics is in its infancy. Restoration practitioners and scientists can contribute to the accumulation of knowledge in this area by treating the restoration projects as experiments which may helpful to restoration designers and managers.

Genome Medicine

Genome medicine is a personalized medicine that uses genomic information of an individual for their clinical care. All the cells contain DNA, and genes are the segments of DNA. 99% of DNA is identical to all the person, only 1% is different, that 1% decides the variation in specific genes that one may have and others do not. That variation is increase or decrease the susceptibility of any disease.

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