
SL Paper 1

What is the name given to a heritable factor which controls a specific characteristic?

- A. Allele
- B. Chromosome
- C. Gene
- D. Mutation

What was an aim of genetic modification of organisms?

- A. To provide stem cells from embryos for medical use
- B. To make crop plants resistant to herbicides
- C. To provide sperm cells for in vitro fertilization (IVF)
- D. To produce genetically identical sheep

Which disease is an example of sex-linked (X-linked) inheritance?

- A. AIDS
- B. Down syndrome
- C. Sickle-cell anemia
- D. Hemophilia

A man has hemophilia, a condition caused by a recessive sex-linked allele carried on the X chromosome.

Which of his grandparents must be a carrier if none of them had the disease?

- A. Maternal grandmother (his mother's mother)
 - B. Maternal grandfather (his mother's father)
 - C. Paternal grandmother (his father's mother)
 - D. Paternal grandfather (his father's father)
-

Ib Biology Sl 2013 Paper 3

**Elzbieta Kolaczowska, Craig N.
Jenne, Connie Wong**



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Protein Misfolding Rossen Donev,2020-01-13 Protein Misfolding Volume 118 covers the wide spectrum of diseases and disorders that are attributed to protein misfolding including degenerative and neurodegenerative cardiovascular renal glaucoma cancer cystic fibrosis Gaucher s disease and many others Specific chapters cover Mass spectrometric approaches for profiling protein folding and stability Biomembranes a key player in protein misfolding how Genetic and environmental factors interact to disrupt proteostasis and trigger protein misfolding diseases Formation of oligomers and large amorphous aggregates by intrinsically disordered proteins Protein misfolding in ER stress with applications to cardiovascular and renal disease and much more Integrates methods for studying protein misfolding factors that trigger this process and its role in a wide spectrum of diseases and disorders Contains timely chapters written by well renowned authorities in their field Provides data that is well supported by a number of high quality illustrations figures and tables and targets a very wide audience of specialists researchers and students Ehrlich's Geomicrobiology Henry Lutz Ehrlich,Dianne K. Newman,Andreas Kappler,2015-10-15 Advances in geomicrobiology have progressed at an accelerated pace in recent years Ehrlich s Geomicrobiology Sixth Edition surveys various aspects of the field including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels Unlike the fifth edition the sixth includes many expert contributors

Anomaly Detection and Complex Event Processing Over IoT Data Streams Patrick Schneider,Fatos Khafa,2022-01-07 Anomaly Detection and Complex Event Processing over IoT Data Streams With Application to eHealth and Patient Data Monitoring presents advanced processing techniques for IoT data streams and the anomaly detection algorithms over them The book brings new advances and generalized techniques for processing IoT data streams semantic data enrichment with contextual information at Edge Fog and Cloud as well as complex event processing in IoT applications The book comprises fundamental models concepts and algorithms architectures and technological solutions as well as their application to eHealth Case studies such as the bio metric signals stream processing are presented the massive amount of raw ECG signals from the sensors are processed dynamically across the data pipeline and classified with modern machine learning approaches including the Hierarchical Temporal Memory and Deep Learning algorithms The book discusses adaptive solutions to IoT stream processing that can be extended to different use cases from different fields of eHealth to enable a complex analysis of patient data in a historical predictive and even prescriptive application scenarios The book ends with a discussion on ethics emerging research trends issues and challenges of IoT data stream processing Provides the state of the art in IoT Data Stream Processing Semantic Data Enrichment Reasoning and Knowledge Covers extraction Anomaly Detection Illustrates new scalable and reliable processing techniques based on IoT stream technologies Offers applications to new real time anomaly detection scenarios in the health domain **Biostimulants in Agriculture II: Towards a**

Sustainable Future Maurizio Ruzzi,Giuseppe Colla ,Youssef Roupael,2024-06-11 Modern agriculture needs to review and

broaden its practices and business models by integrating opportunities coming from different adjacent sectors and value chains including the bio based industry in a fully circular economy strategy Searching for new tools and technologies to increase crop productivity under optimal and sub optimal conditions and to improve resources use efficiency is crucial to ensure food security while preserving soil quality microbial biodiversity and providing business opportunities for farmers Biostimulants based on microorganisms or organic substances obtained from renewable materials represent a sustainable efficient technology or complement to synthetic counterparts to improve nutrient use efficiency and secure crop yield stability Under the new European Union Regulation 2019 1009 plant biostimulants were defined based on four agricultural functional claims as follows Plant biostimulants are products that stimulate plant nutrition processes independently of the product s nutrient content with the sole aim of improving one or more of the following characteristics of the plant and or the plant rhizosphere 1 nutrient use efficiency 2 tolerance resistance to a biotic stress 3 quality characteristics or 4 availability of confined nutrients in the soil or rhizosphere Many diverse natural substances and chemical derivatives of natural or synthetic compounds as well as beneficial microorganisms are cataloged as plant biostimulants including i humic substances ii plant or animal based protein hydrolysates iii macro and micro algal extracts iv silicon v arbuscular mycorrhizal fungi AMF and vi plant growth promoting rhizobacteria PGPR belonging to the Azotobacter Azospirillum and Rhizobium genera **Ebook:**

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