

The Molecular And Physiological Basis Of Nutrient Use Efficiency In Crops

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The Molecular And Physiological Basis

The Molecular and Physiological Basis of Nutrient Use Efficiency in Crops bridges the gap between agronomic practice and molecular biology by linking underpinning molecular mechanisms to the physiological and agronomic aspects of crop yield. These chapters provide an understanding of molecular and physiological mechanisms that will allow researchers to continue to target and improve complex traits for crop improvement.

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The Molecular and Physiological Basis of Nutrient Use Efficiency in Crops provides both a timely summary of the latest advances in the field as well as anticipating directions for future research.

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Before considering the molecular basis for this disorder, it is essential to understand the pathways involved in normal cells. Jeffrey Pessin and I discuss the cell biology of insulin action, speculating about possible molecular defects responsible for the attenuation of the actions of the hormone.

Series Introduction: The molecular and physiological basis ...

Before continuing the discussion of the cellular basis of physiological control, an additional basic structure must be introduced. This is the phospholipid bilayer of the biomembranes of cells. Phospholipids are molecules that have two long tails of hydrophobic fatty acid and a head containing a charged, hydrophilic phosphate group. Under appropriate aqueous conditions, these molecules spontaneously form an organized membrane structure, similar to the film of a soap bubble.

The Molecular and Cellular Bases of Physiological ...

5. Molecular aspects and the techniques used in bioremediation. Apart from the physiological means of biodegradation, several biotechnological techniques are employed. Biotechnological processes to destroy hazardous pollutants offer many advantages over physicochemical processes.

Physiological and molecular basis for remediation of ...

He co-edited The Physiology and Biochemistry of Free-living and Plant-parasitic Nematodes (1998), Root-knot Nematodes (2009), Molecular and Physiological Basis of Nematode Survival (2011), the first (2006) and second (2013) editions of the text book, Plant Nematology and Cyst Nematodes (2018) (all CAB International, UK). He is author or co ...

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Molecular and Physiological Basis of Nematode Survival ...

Progress has been made in our understanding of the structural and molecular characteristics of physiological cardiac hypertrophy, as well as of the endocrine effectors and associated signalling pathways that regulate it. Physiological hypertrophy is initiated by finite signals, which include growth hormones (such as thyroid hormone, insulin, insulin-like growth factor 1 and vascular endothelial growth factor) and mechanical forces that converge on a limited number of intracellular signalling ...

Molecular basis of physiological heart growth: fundamental ...

Xiaowen Chen, Zhiwen Peng, Xin Hou, Jun Wang, and Chenghui Wang "The Molecular Basis of Osmoregulation and Physiological Processes Associated with Salinity Changes in the Chinese Mitten Crab *Eriocheir sinensis*," *Journal of Shellfish Research* 38(3), 643-653, (26 December 2019).

The Molecular Basis of Osmoregulation and Physiological ...

Recent findings have resulted in significant breakthroughs, but comprehensive understanding about the molecular pathways and physiological basis of panicle degeneration still remain a dilemma. In this review, we have summarized all the responsible genes and mechanisms underlying the panicle development with a special focus on degeneration.

Current Advances in Molecular Mechanisms and Physiological ...

Physiological and Molecular Basis of Thyroid Hormone Action Paul M. Yen 1 Molecular Regulation and Neuroendocrinology Section, Clinical Endocrinology Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, Maryland

Physiological and Molecular Basis of Thyroid Hormone ...

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The molecular causes of athyreosis are not well understood. Clinically congenital hypothyroidism often presents within the first few days of life with constipation, poor feeding, umbilical hernia, decreased activity, or prolonged physiological jaundice.

Molecular Basis of Diseases of the Endocrine System ...

Physiology is the scientific study of functions and mechanisms in a living system. As a sub-discipline of biology, physiology focuses on how organisms, organ systems, individual organs, cells, and biomolecules carry out the chemical and physical functions in a living system. According to the classes of organisms, the field can be divided into medical physiology, animal physiology, plant physiology, cell physiology, and comparative physiology. Central to physiological functioning are biophysical

Physiology - Wikipedia

Molecular Basis of Tolerance . Alcohol can regulate a membrane-bound ion channel in several ways: by changing the activity of proteins through posttranslational modifications, interacting with membrane lipids, interacting with auxiliary proteins, modulation of membrane protein expression (i.e., trafficking), and altering the spatial organization of membrane proteins.

The Molecular Basis of Tolerance - National Institutes of ...

The Molecular and Physiological Basis of Nutrient Use Efficiency in Crops bridges the gap between agronomic practice and molecular biology by linking underpinning molecular mechanisms to the physiological and agronomic aspects of crop yield.

The Molecular and Physiological Basis of Nutrient Use ...

Skeletal muscle atrophy attributable to muscular inactivity has significant adverse functional consequences. While the initiating physiological event leading to atrophy seems to be the loss of

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muscle tension and a good deal of the physiology of muscle atrophy has been characterized, little is known about the triggers or the molecular signaling events underlying this process.

The molecular basis of skeletal muscle atrophy | American ...

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inches molecular and physiological basis of nematode survival books nematodes are renowned for their ability to survive severe environmental fluctuations their mechanisms to withstand temperature extremes desiccation and osmotic and ionic stress are presented here together with information on the underlying read molecular and.

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