Rice energy storage substances

Furthermore, the end-use quality of rice, including its cooking properties, texture, and nutritional value, is directly influenced by seed storability. Seeds that lose viability during ...

Plant seeds are comprised of an endosperm, embryo, and a pericarp all of which are vital to seedling development. During seed development, storage compounds containing ...

The seeds of staple crops such as rice, maize, and wheat are essential global food sources, making yield improvement per hectare a critical goal for ensuring global food ...

Supporting: 1, Mentioning: 67 - Starch and storage proteins, the primary storage substances of cereal endosperm, are a major source of food for humans. However, the transcriptional ...

Recently, research all over the world is being carried out to develop eco-friendly supercapacitors (SCs) using biopolymeric materials like proteins or polysaccharides. These polymers offer ...

NF-YC12, which encodes a rice nuclear factor-Y transcription factor subunit C, plays a key regulatory role in the accumulation of storage substances during ...

During rice storage, several desirable properties are developed; for instance, water absorption capacity (WAC), gelatinization temperature, and hardness of cooked rice ...

In this review, we highlight the current knowledge of rice SSP biosynthesis, including a detailed description of the key molecules involved in rice SSP biosynthetic processes and the major ...

We speculate that rice OsMYB73 and OsNF-YB1 play synergistic pivotal role in simultaneously as transcription activators to regulate grain filling and storage compounds accumulation to affect ...

NF-YC12, which encodes a rice nuclear factor-Y transcription factor subunit C, plays a key regulatory role in the accumulation of storage substances during

The increasing demand for wearable electronic systems has driven research on portable electrochemical energy storage devices. Zinc-ion hybrid capacito...

Fostering diversity and an intellectual environment, Rice University is a comprehensive research university located on a 300-acre tree-lined campus in Houston, Texas. Rice produces the next ...

The continuous improvement of negative electrode in lead-carbon batteries (LCBs) renders the positive

electrode a considerable obstacle in overall performances of LCBs. Rice husk derived ...

Herein, it analyzes and prospects rice bran stabilization, extrusion puffing, biological enzymolysis, fermentation, ultrafine crushing, the application of all ingredients of rice ...

However, designing low-cost and high-energy-density carbon electrode materials using a simple method remains an enormous challenge. Here, we design a porous ...

These results suggest that increased energy consumption from storage substances occurred during drought. In addition, increased expression of the enzymes involved in anabolic ...

Leveraging rice husk processing"s benefits in energy production and industrial uses requires an understanding of its full potential. To promote sustainable practices and ...

10.3.2.4. Storage and transfer of reductants Besides its role as a compatible solute for osmotic adjustment, proline can play a pivotal role in the transfer or storage of ...

Starch and storage proteins, the primary storage substances of cereal endosperm, are a major source of food for humans. However, the transcriptional regulatory networks of the synthesis ...

Supercapacitors can deliver energy quickly, offering extraordinary potential for efficient electrochemical energy storage (EES) systems. Specifically,...

The findings can open a new avenue to use abundant agricultural by-products as ideal materials with promising applications in high-performance energy-storage devices.

Here, we identified a rice major locus, QT12, which negatively controls grain-quality field thermotolerance by disrupting endosperm storage substance homeostasis through ...

Abstract Starch and storage proteins, the primary storage substances of cereal endosperm, are a major source of food for hu-mans. However, the transcriptional regulatory networks of the ...

This review introduces the changes of structure and storage substances during seed germination, and then focuses on the bioactive compounds and their changes after ...

Over the last decade, there have been massive investments and research to improve rice yield per hectare. Alongside successful stories of improved rice yields are ...

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