Energy storage substances in peas

Does storage time affect NA content in pea seeds?
The Na content in the pea seeds was positively affectedby increasing seed storage time,while increasing storage temperature and humidity negatively affected the content of this element in the seeds of both pea varieties. Statistically significant differences were found in the pea seeds of both cultivars harvested in 2019 (Table 8).

Do pea seeds lose viability if stored at 5 °C?
Pea seeds stored for one year at 5 °C and 22 °C reacted differently to the vigor of young plants and in terms of seed germination 11,12. However,the overall loss of seed viability was slowerfor freshly harvested and two-year-old seeds stored at 5 °C than for other seed lots.

Do different storage conditions affect morphological and physiochemical traits of pea seeds?
In this study PCA was used to assess the impact of different storage conditions on the morphological and physiochemical traits of the Gloriosa and KW pea seeds, since it is effective in identifying patterns and highlighting the traits most affected by storage time, temperature, and humidity.

How does storage time affect potassium content in pea seeds?
According to the results presented in Table 8 and those presented in Supplementary Figs. S11 d and S12 d,increasing the storage time had a positive effecton the potassium content in the pea seeds,while increasing the temperature and humidity caused a reduction in the K concentration.

Which proteins are Detergent-Resistant in pea seeds?
As a result,we have identified all 3 major classes of seed storage proteins (vicilins,convicilins,and legumins) and several other proteins including heteropolymeric iron-binding Ferritin,biotin-containing protein SBP65,and drought stress response protein Dehydrinas detergent-resistant components of pea seeds (S1 Table).

What is plant energy storage?
Plant energy storage primarily revolves around starch. This carbohydrate plays a critical role in how plants harness energy from sunlight through photosynthesis. It converts carbon dioxide and water into glucose,which is stored in plant tissues. This glucose serves as a foundational component for starch production.

Moreover, the exploration of other polymeric substances, including polyglucan and polyamines, enhances our understanding of the diversity of energy storage strategies ...

The loss of germination, viability, and vigor of seeds under storage conditions are the main causes of the need to multiply the seed material for leguminous crops. For crop ...

However, to maintain energy balance across periods of scarcity and abundance, organisms utilize specific forms of carbohydrates for energy storage. Two primary types ...

Understanding plant structures that accumulate energy reveals much about their adaptability and efficiency. The process of energy storage begins with glucose production ...

In this work, ten varieties of peas from different parts of China were compared in their nutritional composition, main phenolic substances content and antioxidant capacities.

These seeds have a high oil content, providing an excellent energy source for germination. Olive Seeds: Olive seeds have a fleshy endosperm rich in oils and are specifically adapted for oil ...

Polysaccharide energy storage substances are complex carbohydrates that serve as energy reserves in living organisms. 1. They are primarily found in plants (e.g., starch) and ...

It was further suggested that the HA-MW method can be a promising technology for drying the green peas due to the relatively lower energy consumption, shorter drying time, ...

?????????? SGtech ???????????????????????? (PEA) ?? (Battery Energy Storage System: ...

The main energy storage substances in seeds With seed germination, oil bodies and other substances gradually degraded to supply energy; this was consistent with the content of ...

Pea seeds are rich in protein, carbohydrate, dietary fiber, vitamins, and minerals and can be utilized as milled ingredients such as proteins, starches, flours, and fibers.

Green Peas - Types of Fats and Lipids Introduction Carbohydrates are one of the three major macronutrients that provide humans with essential energy. They represent a significant portion ...

Pea plants can perform photosynthesis when they are in sunlight, converting light energy into chemical energy stored as glucose. This process increases the number of ...

Traduzioni in contesto per "high energy storage" in inglese-italiano da Reverso Context: At the same time the liver breaks down more glycogen, a high energy storage substance similar to ...

It provides the fundamental knowledge of pea protein structures and functional improvements for potential food applications. Since pea or modified pea proteins have not ...

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