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(54) Title: COMPOSITIONS AND METHODS FOR INCREASING THE AMINO ACID AND PROTEIN CONTENT IN STORAGE
ORGANS OF PLANTS

(57) Abstract: The present invention provides methods and compositions for increasing amino acids content and proteins in plant
storage organs. In particular, the present invention relates to transgenic *Solarium tuberosum* plants overexpressing amino acid permease
(AAP) and/or lysin histidine transporter (LHT), the plants store high amount of essential amino acids and capable of producing high
amount of heterologous proteins in the tubers.

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