

Controlling the nutritional quality of germinating pulses

OBJECTIFS

By an adequate experimental and modelling strategy, and a multi-disciplinary approach mixing metabolomics, imagery, and food process modelling the objective is to identify, localize, and describe the disruption of enzyme activity and biochemistry between the dormancy and the germination state of the pulse. The objective of representation will structure the work and will allow to update knowledge of mechanisms involved and their dynamic. This work will be a first step toward the proposal of a mechanistic model taking into account quantitatively both the synthesis and / or the activation of reaction enzymes, their compartmentalization and the reaction kinetics in situ (in the seed).

Responsable :

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