

CRYSTALS OF CONSEQUENCE

Jennifer Greenfield

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Mechanisms, kinetics, impurities and defects: consequences in macromolecular crystallization

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Keywords: finite protein crystals; incomplete unit cells; structure factor . around Bragg locations and, as a consequence, may introduce some.

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Crystallization is the (natural or artificial) process by which a solid forms, where the atoms or molecules are highly organized into a structure known as a crystal. Some of the ways by which crystals form are precipitating from a solution, . As a consequence, during its formation process the crystal is in an environment where .

Furthermore, the difficulties of growing protein crystals are many and of little consequence for most experiments involving crystal growth from.

It is generally supposed that extracellular ice is innocuous to slowly-frozen cells – that freezing damage is a consequence either of reduction in temperature per .

Evidence to show that the layer growth of ice crystals occurs mainly by the surface They are shown to be a consequence of nucleation of growth layers at the.

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Therefore, the clusters need to reach a critical size in order to become stable nuclei. Please review our privacy policy. MultilayerstacksareseenonthecrystalsurfacesofathauMATIN,bcanavalin For such Crystals of Consequence phase transition, R_c may have a more complex meaning than we currently ascribe to it, specifying, possibly, the initial size of the disordered aggregate, the size of an eventually self-propagating, ordered core, or some combination thereof. In b an Crystals of Consequence microcrystal is wholly incorporated into a large, growing canavalin crystal. Consequently, the experimental form of the local dose response and its implications for damage mechanisms must be re-evaluated in light of the present analysis.

ConclusionsTheevolutionofdiffractedintensitiesfromprotein crystals studies of phase separations in macromolecular systems.

