

# Growth Regulation By Ion Fluxes

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Plant Growth Regulation: Proceedings of the 9th International . - Google Books Result Growth regulation by ion fluxes ?????????? . Pollen tube growth is coupled to the extracellular calcium ion flux . play a pivotal role in the regulation of cellular growth and differentiation (1-4). Early changes in Na<sup>+</sup>, H<sup>+</sup>, Ca<sup>2+</sup>, and K<sup>+</sup> fluxes across the plasma membrane have Ion fluxes, auxin and the induction of elongation growth in Nicotiana . All tested growth substances increased ion leakage from NE emb cells, IAA, zeatin and kinetin . Key words: Growth Regulators, Cells, Permeability. Introduction . and 2,4-D effects were less significant whereas zearale blocked ion flux. The role of ion fluxes in polarized cell growth and morphogenesis . Hormonal Regulation of Development I: Molecular Aspects of Plant . - Google Books Result

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Extracellular ATP Induces Ion Fluxes and Inhibits Growth of Friend . Ion fluxes, auxin and the induction of elongation growth in Nicotiana . not causal agents but are probably important regulators of growth and survival of the cell. Ion dynamics and hydrodynamics in the regulation of pollen tube growth . Keywords Pollen tube growth Oscillation Ion flux Chloride Vibrating probe. Received: A Compartmental Model Analysis of Integrative and Self-Regulatory . Calcium - a central regulator of pollen germination and tube growth Peehl, DM, Ham, HG: Clonal growth of human keratinocytes with small . roles of calcium and cyclic AMP in cell proliferation, Growth Regulation by Ion Fluxes. Plant Electrophysiology: Theory and Methods - Google Books Result Oct 6, 2010 . Essential features of pollen tube growth are polarisation of ion fluxes, intracellular ion gradients, and oscillating dynamics. However, little is Ions and Pollen Tube Growth - University of Massachusetts Amherst Plant Roots: The Hidden Half, Fourth Edition - Google Books Result Publication » Ionic events at the membrane initiate rat liver regeneration. In Growth Regulation by Ion Fluxes. Growth regulation by ion fluxes (Annals of the New York Academy of . Jan 26, 2006 . While the ionic activities and fluxes show the same period as growth . In addition to Ca<sup>2+</sup>, pollen tube growth is regulated by pH (Fricker et al. Growth regulation by ion fluxes in SearchWorks Growth regulation by ion fluxes / edited by H. L. Leffert. ????: ??; ????: New York, N.Y. : New York Academy of Sciences, 1980; ??: 335 p. ; 24 cm Pulsating Ion Fluxes and Growth at the Pollen Tube Tip VEGF-A isoform-specific regulation of calcium ion flux . THE ROLE OF MEMBRANE POTENTIAL IN DETERMINING RATES OF LATERAL DIFFUSION IN THE PLASMA MEMBRANE OF MAMMALIAN CELLS (pages . Volume 339 Growth Regulation by Ion Fluxes - Wiley Online Library Ion dynamics and hydrodynamics in the regulation of pollen tube . (growth control/mitogen action/ionic flux/pH regulation/thrombin) . bition of growth factor-activated Na<sup>+</sup> influx and Na<sup>+</sup>-dependent. H<sup>+</sup> efflux is obtained with Calcium-Regulated Differentiation of Normal Human . - Nature The role of ion fluxes in polarized cell growth and morphogenesis: the pollen . of their fundamental functional features on a close regulation of ion dynamics, Growth regulation by ion fluxes - Addis Ababa University Libraries . Pollen Tube Growth Regulation by Free Anions Depends on the Interaction . Plant Cell Growth and Ion Flux Responses to the Streptomyces Phytotoxin Ecophysiology of Vascular Halophytes - Google Books Result Oct 13, 2012 . Fundamental for such local, tip-focused growth are the presence of internal gradients and transmembrane fluxes of ions. Consequently Ions, Cell Proliferation, and Cancer - Google Books Result Growth regulation by ion fluxes (Annals of the New York Academy of Sciences ; v. 339) [H. L. Leffert] on Amazon.com. \*FREE\* shipping on qualifying offers. Handbook of Growth Factors - Google Books Result Dec 10, 2002 . Fluxes of two other ions have also been measured at the pollen tube tip. to play a central role in volume regulation and growth, raising. Control of Animal Cell Proliferation - Google Books Result Growth regulation by ion fluxes /. Series: Annals of the New York Academy of sciences ; v.339 Published by : New York Academy of Sciences, (New York , N. Y. Progress in Plant Growth Regulation - Google Books Result Growth factor activation of an amiloride-sensitive Na<sup>+</sup>/H exchange . The Influence of Growth Regulators on Membrane Permeability in . Growth regulation by ion fluxes. Language: English. Imprint: New York, N.Y. : New York Academy of Sciences, 1980. Physical description: 335 p. : ill. ; 23 cm. Hormonal Regulation of Plant Growth and Development - Google Books Result Vascular endothelial growth factor A (VEGF-A) regulates many aspects of vascular physiology . differential regulation of cytosolic calcium ion flux, transcription. Ionic events at the membrane initiate rat liver regeneration. In