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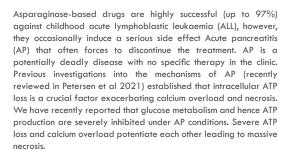
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How to reduce side effects of cancer drugs?

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We have suggested supplementing glucose with galactose and found both significant and substantial reductions of all crucial hallmarks of asparaginase-induced AP in vitro and in vivo.

Conclusion & Significance:

Galactose as an oral supplement effectively protects pancreas in different models, including asparaginase-induced mouse model of



AP. Galactose supplementation has been shown also to increase ATP levels in control cells, suggesting that its use is not limited to AP cases. Available data suggest that galactose oral supplementation can be used to reduce side effects of asparaginase-based drugs for ALL and potentially other cancer drugs where ATP loss and necrosis limit their therapeutic potential.

Biography

Oleg Gerasimenko is a Reader at Cardiff School of Biosciences, Cardiff University, UK. Fellow of The Physiological Society, UK. Received his PhD from Bogomoletz Institute of Physiology Ukrainian Academy of Science in 1991. Lecturer from 2000 and Reader from 2005 at The University of Liverpool, UK. He has published 93 papers in reputed journals (8474 citations by Google Scholar, h-index 47). Has been serving as an Editorial board member of several journals: Scientific Reports, Cells and Pflügers Archiv - European Journal of Physiology.

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