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L-Arginine is an Achilles' heel in tumor growth and therapy

Kamran Mansouri and Mozghan Jahani

Kermanshah University of Medical Sciences, Iran

In cancer therapy, modulatory effects of L-arginine on various cancers remain a controversial issue. This amino acid is a substrate for different enzymes and plays a crucial role in regulating multiple metabolic and signaling pathways in both normal and cancer cells. L-arginine has a complex metabolism and its impacts on the cells are highly linked to the types and metabolism of them. Previous studies investigating the effects of L-arginine in cancer therapy have provided conflicting results. While some studies confirm that L-arginine enhances tumor growth, the others introduce L-arginine as an appropriate candidate for cancer treatment. Contradictory assertions in the case of L-arginine used in cancer therapy suggest that using or depletion of this amino acid can have different result on the normal and cancer cells. So, this study attempts to reconcile these opposite notions and to revisit the thesis that L-arginine role in cancer therapy.

Biography

Kamran Mansouri completed his PhD at Tehran University of Medical Sciences, Iran. He is the Head of Department of Molecular Medicine at Kermanshah University of Medical Sciences, Iran. He has published more than 50 papers in reputed journals.

kmansouri@kums.ac.ir

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