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**Protein restriction and cancer**

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*Abbreviations:* PI3K, phosphoinositide 3-kinase; MAPK, mitogen activated protein kinase; mTORC1, mTOR complex 1; GCN2, general control nonderepressible 2; ULK, UNC-5 like autophagy activating kinase; ATG, autophagy related gene; GPCR, G protein coupled receptor; UCPs, uncoupling proteins; FGF21, fibroblast growth factor 21; Akt, protein kinase B; IGF-1R, insulin-like growth factor 1 receptor; IGF-1, insulin-like growth factor 1; mTOR, mammalian target of rapamycin; ATF4, targeting the activating transcription factor 4.

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