

Roles of the p53 pathway in metabolism: implications in aging, tissue homeostasis and carcinogenesis



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The p53 protein is the effector of an essential checkpoint regulating genome integrity, cell cycle progression, senescence and cell death that is frequently mutated in human cancers. Its tumor suppressive functions have been more recently extended to the control of cellular metabolism. We and others demonstrated that several other key components of this pathway (MDM2, MDM4, E4F1, ARF, BMI1) also display key metabolic activities both in a p53 dependent and independent manner. Our main objective is to further characterize the metabolic networks regulated by the p53 pathway and understand how their perturbation contributes to several pathophysiological conditions including metabolic disorders, aging, and cancer.



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À l'amphithéâtre de l'IPS au local Z5-3001

