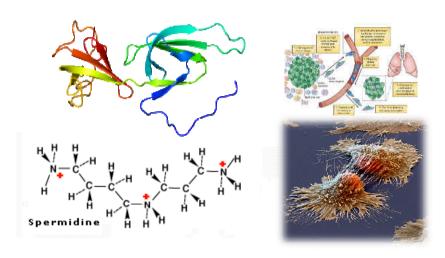
Polyamines, eIF5A, EMT and cancer: a promising relationship





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V Meeting of PhD Students at UPV July 5th, 2018

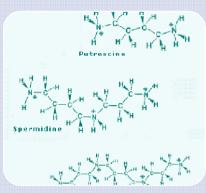
Cancer

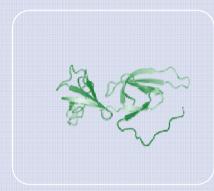
Polyamines

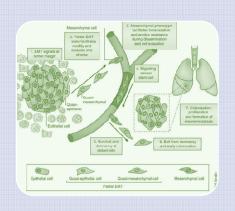
eIF5A

Epithelial to Mesenchymal Transition (EMT)









Selective growth and proliferative advantage are hallmarks of cancer cells

Metabolic

products which

are central for

proliferation. "Oil

for the cancer

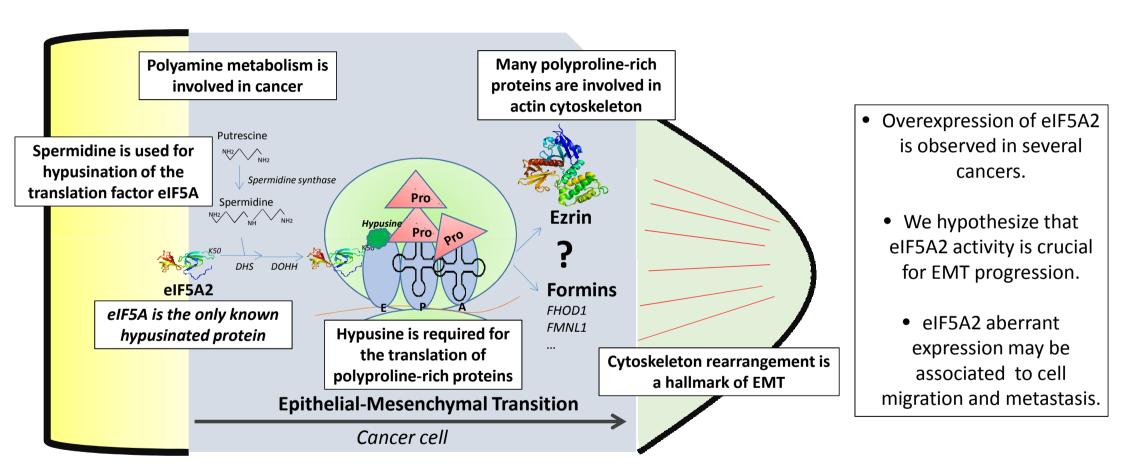
engine"

Translation factor wich undergoes a unique post-translation modification called hypusination.

Hypusine is a derivative of the polyamines

Phenotypical changes essential for cancer progression: loss of cell polarity, cytoskeleton reorganization, increase of motility

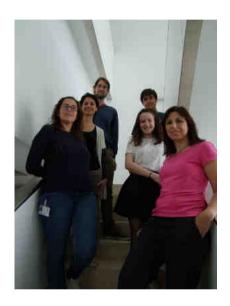
Outline of the main hypothesis and questions to address



Hypusine could be a promising novel target for cancer therapies

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