

"Cis- and trans-acting factors affecting mRNP biogenesis in budding yeast ."



Assembly of mRNAs into messenger ribonucleoparticles (mRNPs) is a pivotal step in gene expression and is tightly coupled to mRNA synthesis, processing and transport, including export through nuclear pore complexes (NPCs). We are interested in identifying the molecular determinants that coordinate the biogenesis and the remodelling of mRNPs in space and time in budding yeast. Through a comprehensive proteomic analysis of mRNP composition, we have demonstrated that the NPC-associated SUMO-deconjugating enzyme Ulp1 specifically controls the association of a limited number of factors with mRNAs, ultimately impacting on their cellular fate. In addition, we have found that intronic sequences within mRNAs can play a critical role in the context of global mRNP biogenesis defects. The contribution of these cis- and trans-acting factors to mRNP metabolism will be presented.

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Invité par Rachid Rahmouni

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