

# *Protein regulators of RNA metabolism.*



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The regulation of RNA metabolism allows eukaryotic cells to differentiate and adapt, and is essential to the development of complex organisms. This regulation is coordinated by multi-functional nucleic acid binding proteins that, in many cases, recognize a very diverse ensemble of nucleic acid targets. I will focus on the three members of the FUSE Binding Protein (FBP) family, that regulate genes important to cancer and inflammation processes acting at different steps of RNA metabolism. I will discuss how FBP proteins recognize the different RNA targets, and connect RNA recognition to their function in RNA metabolism. I will also show how our structural data lead to a mechanistic models of regulation.