Using RNA PROTACs in a new approach to target RNA-Binding Proteins (RBPs)

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Proteolysis targeting chimeras (PROTACs) are heterobifunctional molecules composed of two domains. One domain binds selectively to a target protein of interest, such as a disease-related protein, the other domain sequesters elements of the ubiquitination machinery leading to intracellular proteolysis of the target. We are developing RNA PROTACs in which the recognition domain comprises the RNA binding element of an RBP in a rational approach to order to address this challenging protein family.