



DEPARTMENT OF
CHEMISTRY &
CHEMICAL BIOLOGY

UNDERSTANDING THE MANY HUES OF RNASE P, AN ANCIENT ENZYME INVOLVED IN TRNA BIOGENESIS

PRESENTED BY:
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The enzyme catalyzing 5'-tRNA maturation, RNase P, functions either as protein alone or as a protein-aided ribozyme depending on the organism and subcellular location. From biochemical studies on both versions, we are beginning to gain insights into various facets of RNase P catalysis including unanticipated thematic parallels in the functioning of the two distinct forms, which arose through independent evolution. Importantly, results from these studies enable a better appreciation of the nexus between RNase P and diseases.