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*The Role of Nucleophosmin 1 Mediated Caspase-2
Activation in Acute Myeloid Leukemia*

Dharaniya is a CPRIT scholar, currently pursuing a Ph.D. in the laboratory of Dr. Lisa Bouchier-Hayes, Division of Hematology-Oncology, Department of Pediatrics at Baylor College of Medicine (BCM). Her research focuses on understanding the role of caspase-2, a cell-death initiator in acute myeloid leukemia harboring nucleophosmin 1 mutation. Her recent work reveals the importance of exploring the non-traditional roles of caspase-2 in regulating the cell cycle and DNA repair of cancer cells.

Prior to BCM, Dharaniya did her postgraduate research in the laboratory of Dr. Indranil Sinha at Harvard Medical School. In collaboration with Dana Farber Cancer Institute, Dharaniya studied the molecular mechanism underlying hypoxia signaling in sarcopenic obesity and cancer models. Dharaniya hopes to establish a long-standing scientific career in developing efficient therapeutic interventions for liquid and solid tumors.