

RNA translation is a fundamental process in gene expression yet its extent, role and regulation in human diseases remain unclear. In Dr Chothani's talk, she will describe how their data-driven approaches to study RNA translation have revealed a substantial portion of gene expression activity that has been overlooked when studying diseases. This has led to (1) a paradigm shift in that human transcripts often translate multiple distinct open reading frames (ORFs) (2) a 40% increase in translated ORFs encoded in the a large untapped space for new biomarkers, therapeutic targets and antigens for therapy. Additionally, the algorithms developed provide a powerful tool to