

	<h2>Faculty Development Program</h2>		
<p>Title : AI-driven RNA 3D Structure Prediction using trRosettaRNA tool</p> <p>Date : 2025-04-15 - 2025-04-15</p> <p>Time : 16:00 - 17:30</p> <p>Venue : SJT-517</p>		<p><u>Event Outcome</u></p> <p>- The participants will gain knowledge of employing the trRosettaRNA tool for RNA 3D structure prediction from RNA sequences.</p>	
	<p>Resource Person 1 - Details</p> <p>Name : Dr Adi Idris</p> <p>Designation : Lecturer in Virology, Centre for Immunology and Infection Control</p> <p>University/ Company : Queensland University of Technology, Brisbane</p> <p>Address : Australia, QLD4001.</p>		
<p>Resource Person's Profile :</p> <p>1. Profile of Dr Adi Idris</p> <p>Dr Adi Idris is a viral immunology and antiviral therapies expert focusing on developing novel therapeutic strategies to treat a range of viral diseases including cancers and communicable diseases using gene editing and silencing technologies. He is an Australian Awards Endeavour Research Fellow 2018. He developed the worlds first RNA-based direct acting antiviral therapy for COVID 19. He is an adjunct faculty of SHINE school in VIT Vellore.</p> <p>RNA 3D structure prediction is a long-standing challenge. Inspired by the recent breakthrough in protein structure prediction, trRosettaRNA - an automated deep learning-based approach to RNA 3D structure prediction is developed. The trRosettaRNA pipeline comprises two major steps: 1D and 2D geometries prediction by a transformer network; and 3D structure folding by energy minimization.</p> <p>trRosettaRNA</p> <p>Coordinator's: Prof. KAMANASISH BHATTACHARJEE 20203 - Assistant Professor Sr. Grade 1 - SCOPE Prof. YOGENDRA PRATAP SINGH 21846 - Assistant Professor Grade 2 - SHINE</p>			