



Where Knowledge is Created and Shared

Yale Pathology

Pathology Grand Rounds

Thursday, October 20th 12:30-1:30 pm

Fitkin Amphitheater - LMP 1094

(also via Zoom)

Hosted by: Gilbert Moeckel, MD



Patricia Dos Santos, PhD

Professor and Associate Chair of Chemistry, Wake Forest University

The Synthesis and Dynamic Landscape of tRNA Epitranscriptome

Needs: The talk will provide an overview of tRNA modifications, their cellular function and their impact on microbial and human health. Defects on the synthesis of certain tRNA modifications are associated with a variety of pathologies. Furthermore, some of these enzymes are essential in microbial systems and are considered potential targets for antimicrobial interventions. The lecture will cover specific examples of biochemical pathways involving the synthesis of tRNA modifications and mechanistic regulatory factors controlling the abundance of these modifications and associated roles in metabolism.

Objectives: Describe the additional roles of tRNA besides translation. Understand that the abundance of tRNA modifications is impacted by nutritional and environmental factors. Understand the mechanisms by which tRNA modifications impact cellular viability and that defects within tRNA modifying enzymes are associated with a variety of pathologies.

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