In the THJ lab we focus our research on the regulation and fidelity of gene expression, which is of paramount importance for the maintenance and differentiation of all living organisms. Our laboratory studies the production and quality control of RNA in eukaryotic cells (human cancer and mouse embryonic stem cells) and its contribution to gene expression regulation. A main focus of the laboratory is to understand the molecular principles dictating the sorting of newly transcribed RNA into a productive pathway involving its packaging with protein and cellular transport vs. a destructive pathway leading to RNA turnover. We believe that a thorough understanding of these relationships will also position us to better understand any putative function of the pervasive transcription of eukaryotic genomes.

THJ Lab members:
1 Professor
1 Team leader
11 Postdocs
3 PhD students
4 Laboratory technicians