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The research focuses on RNPs involved in transcription in different models like spermatogenesis, apoptosis, drug-induced transcriptional blockade on cell lines in culture, mainly by electron and fluorescence microscopy.

By means of cytochemical, immunocytochemical and in situ hybridization techniques we are studying the different factors involved in synthesis, elongation, maturation and cleavage of newly synthesized RNA. Bioactive peptides are utilized to modulate the gene expression and to induce a hibernation-like ipometabolic stasis.

Finally, the epigenetic influences of histone modification, DNA methylation and RNA methylation in situ in the interphase nucleus are studied.