

*Transcription and RNA Processing: I know it's kind of a dumb question, but DNA replication, transcription and mRNA processing occur in the nucleus, correct? Of these processes, do all of them occur specifically in the nucleolus or does that apply for only ribosomal RNA? I got to the last slide of the last lecture of Exam II material and I'm a bit confused about whether tRNA and mRNA are made in the same place as rRNA.*

This can get confusing, so it's always ok to ask. Yes, all three of those processes occur in the nucleus of a eukaryotic cell. But only rRNA transcription and processing (and ribosomal subunit assembly) occur in the nucleolar region of the nucleus. All other genes that are transcribed are being transcribed in the interchromosomal territories next to exposed regions of euchromatin near that particular chromosome's "territory."

*Unique solution ID: #1156*

*Author:*

*Last update: 2007-02-28 11:37*