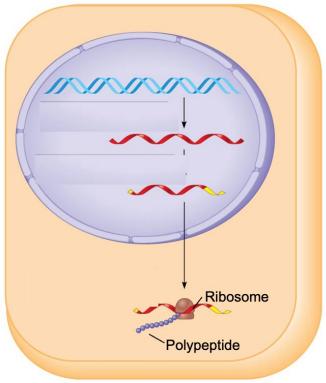
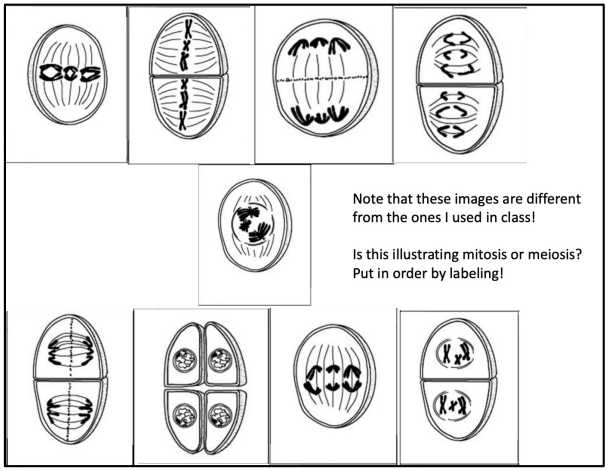
Map the following processes onto the image. Where and when does each take place and what does each do?

- epigenetic modifications
- transcription factors
- post transcriptional modification (RNA processing, RNA splicing)
- microRNA
- post translational modification





Note that these images are different from the ones I used in class!

Is this illustrating mitosis or meiosis? Put in order by labeling!

- How many alleles are there in this population at this blood group locus?
- How many possible genotypes are there given the number of alleles in the population?
- Describe the relationship between the A and the O allele when an individual's genotype is AO?
- Describe the relationship between the A and the B allele when an individual's genotype is AB?
- Cross an I^AI^O individual with a I^BI^O individual using a Punnett square and show your work. What would the genotypes and phenotypes be in the next generation?