CONCEPT: RIBOSWITCHES

- Riboswitches are 5' UTR mRNA sequences that can bind small molecules and control gene expression of the mRNA
 - □ Riboswitches control the expression of _____
 - ☐ There are two main domains in a riboswitch
 - An aptamer is the sequence that binds the small molecule ligand
 - An **expression platform** forms secondary structures which regulate gene expression
 - A terminator structure is the structure formed by binding the small ligand
 - □ Riboswitches can interfere with transcription, splicing, and translation
 - Transcription termination is controlled by a terminator structure
 - Translation termination is controlled by a terminator structure blocking the ribosome binding site

EXAMPLE:

