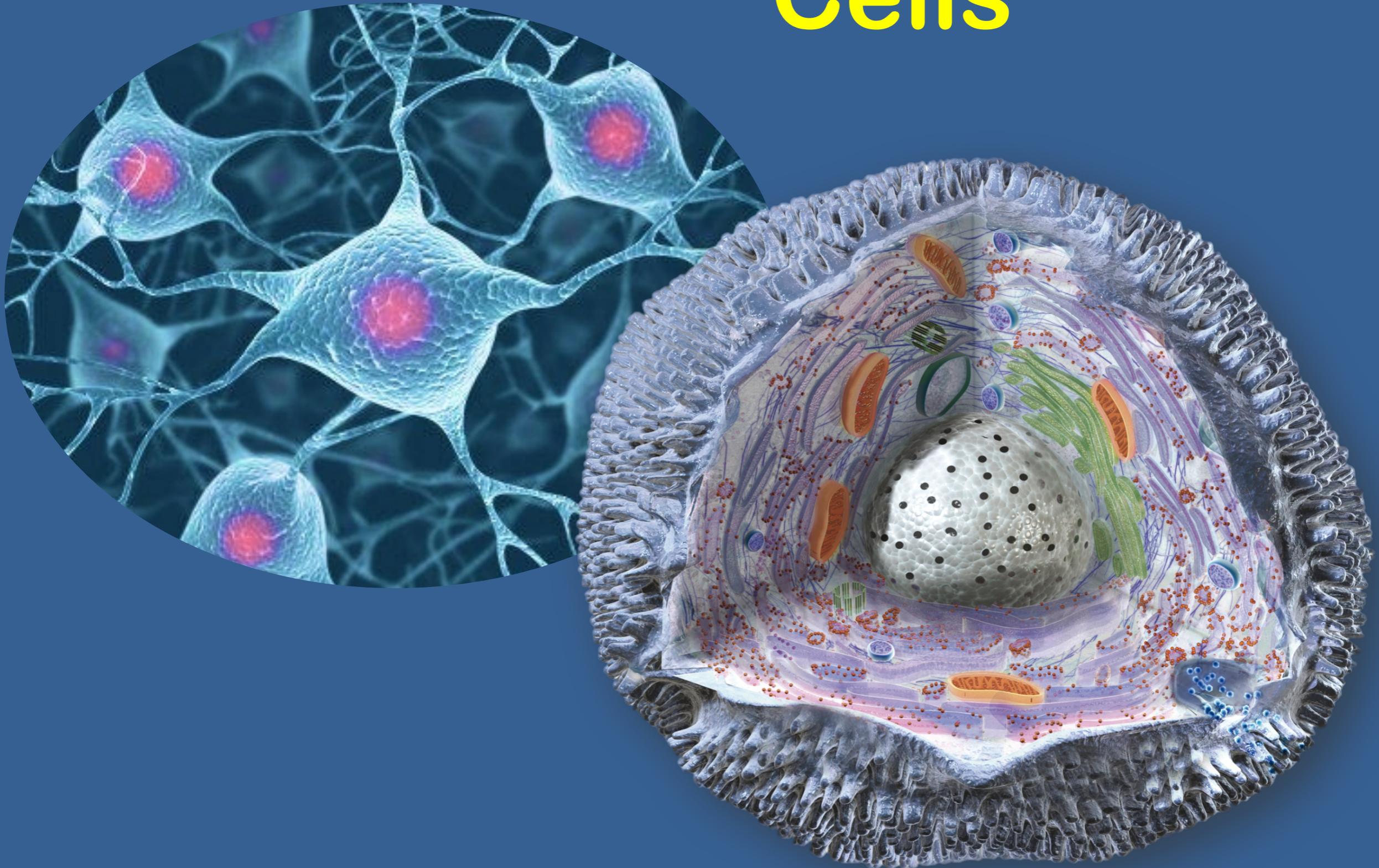


# Basic Introduction to Molecular Biology

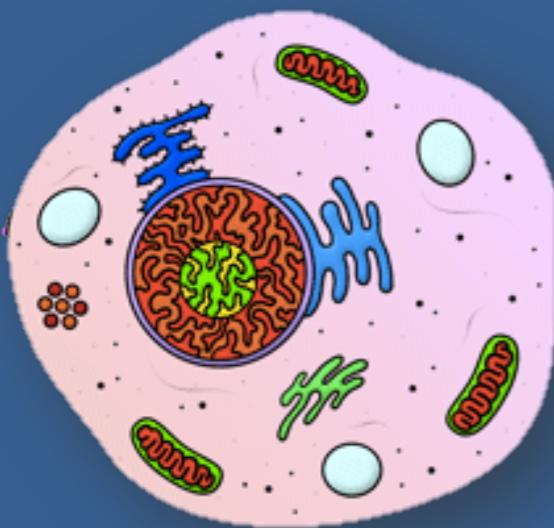
# Cells



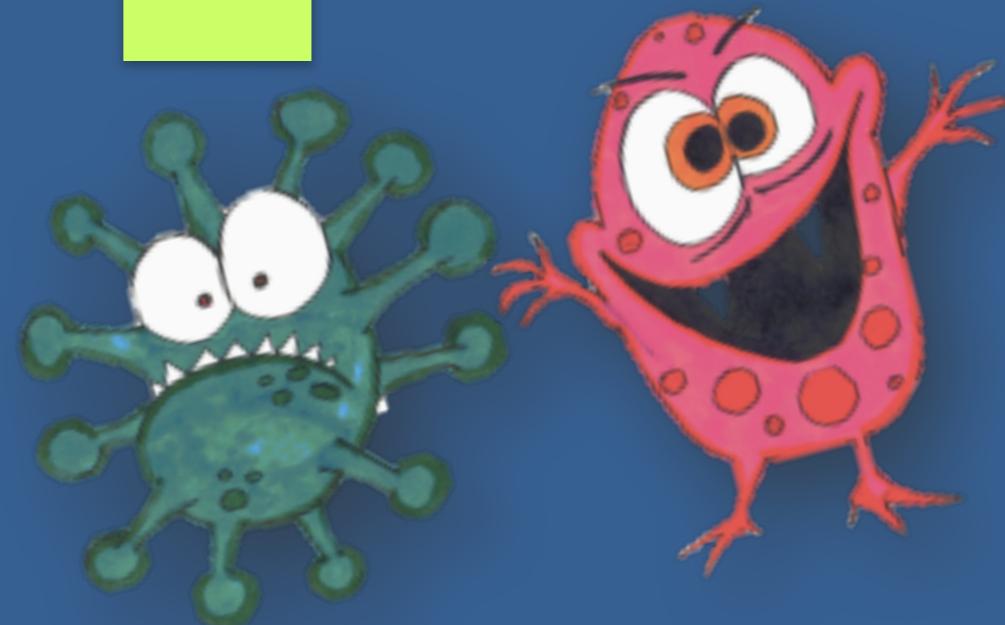
**How many cells are in a  
human body?**

# Number of cells in a human body

$10^{14}$   
(10 trillion)



$10^{15}$   
bacterial cells!



$10^{11}$   
(400 billion)



# Cells divide. How often?



**10<sup>16</sup>**

10,000,000,000,000,000 / lifetime

**10<sup>11</sup>**

100,000,000,000 / day

# There are many different kinds of cells in our body

