

2. Probabilities of sequences.

Assume that the four bases A, C, T, and G occur with equal likelihood in a DNA sequence of nine monomers.

- (a) What is the probability of finding the sequence AAATCGAGT through random chance?
- (b) What is the probability of finding the sequence AAAAAAAAAA through random chance?
- (c) What is the probability of finding any sequence that has four A's, two T's, two G's, and one C, such as that in (a)?

- (a) Each base occurs with probability $1/4$. The probability of an *A* in position 1 is $1/4$, of *A* in position 2 is $1/4$, of *A* in position 3 is $1/4$, of *T* in position 4 is $1/4$, and so on. There are 9 bases. The probability of this specific sequence is $(1/4)^9 = 3.8 \times 10^{-6}$.
- (b) Same answer as (a) above.
- (c) Each specific sequence has the probability given above, but in this case there are many possible sequences which satisfy the requirement that we have 4 *A*'s, 2 *T*'s, 2 *G*'s, and 1 *C*. How many are there? We start as we have done before, by assuming all nine objects are distinguishable. There are $9!$ arrangements of nine distinguishable objects in a linear sequence. (The first one can be in any of nine places, the second in any of the remaining eight places, and so on.) But we can't distinguish the four *A*'s, so we have overcounted by a factor of $4!$, and must divide this out. We can't distinguish the two *T*'s, so we have overcounted by $2!$, and must also divide this out. And so on. So the probability of having this composition is

$$\left[\frac{9!}{4!2!2!1!} \right] \left(\frac{1}{4} \right)^9 = 0.014.$$

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