

## 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

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

# Molecular Driving Forces Solutions Manual Chapter 27

**Chao Zhang**



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