SELF-TEST

ACROSS

Do You Know the Terms?

1.	State of DNA double helices
	that is thought to promote
	transcription by facilitating
	strand separation.
5.	DNA plus two each of histor

- 2A, 2B, 3, and 4.
- 7. Supercoiled DNA structure assumed in most cells (due to the association of proteins), known as _____ supercoiling.
- 10. Higher-order structure of DNA, referred to as a 30 nm fiber, requires the association of the protein_
- 11. Structural units made up of DNA and associated proteins; contain heritable genetic information.
- 13. Nontranslated regions of DNA in the genes of most eukaryotes.
- **15.** DNA supercoiling is the result of _____ strain on the molecule.
- 17. Describes sequences of DNA usually associated with centromeres and telomeres. (2 words)
- 18. The linking number for underwound DNA is than that for relaxed DNA.
- 20. Describes plasmid and bacterial DNA, which lack telomeres.
- 21. Again, describes DNA molecules in plasmids and bacteria.
- **22.** *In vivo* state of most double-stranded DNA.
- 24. Circular, extrachromosomal DNA that can replicate independently of genomic DNA.
- **26.** Regions of DNA that influence *where* gene transcription starts and ends and the rate of transcription; called sequences.
- 27. Proteins that contain a relative abundance of the amino acids H, R, and K.
- 28. Coding regions of DNA that usually specify amino acid sequences for only a portion of the final protein.

DOWN

- 2. Organisms that package most of their genetic material in a membrane-bounded nucleus.
- 3. Region of a bacterial cell that contains its genetic information.
- 4. All of the information needed to make an entire organism.
- 6. Property of an organism that is the product of the information contained in the genome.

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- **8.** Treating chromatin with DNase degrades
- 9. Its genetic information is encoded in either DNA or RNA.
- 11. Structure essential for the separation of chromosomes during cell division.
- 12. Extrachromosomal DNA in eukaryotes includes DNA.
- 14. Enzymes that alter the linking number for a given molecule of DNA; especially important in the process of DNA replication.
- 16. Formed by repetitive DNA sequences; help to stabilize linear DNA.
- 19. Organisms that lack cellular organelles; for example, bacteria.
- **20.** The stuff (in nondividing cells) of which chromosomes are made.
- 23. DNA that is not supercoiled and not underwound is said to be in a state.
- **25.** Most DNA exists as a ___ of polynucleotide strands.