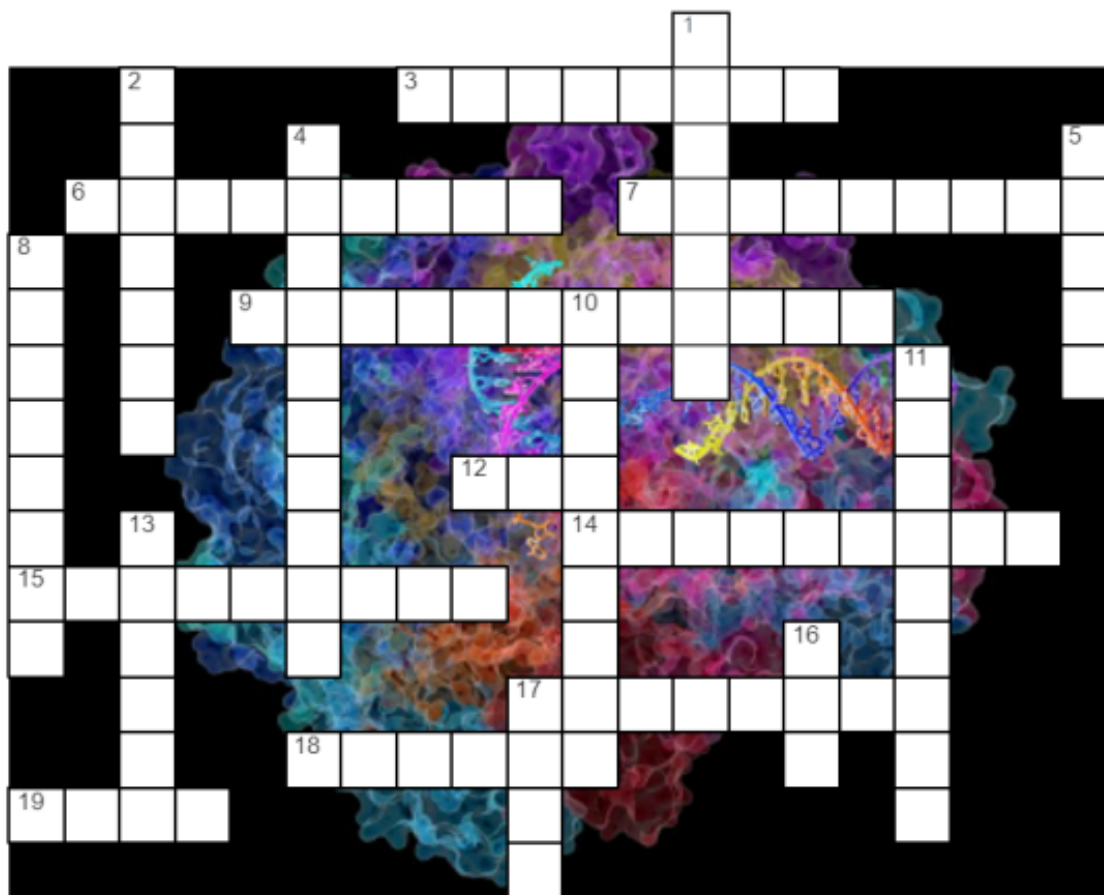


# Test Your Nobel Knowledge

A National Institute of General Medical Sciences Crossword Puzzle



NIH National Institute of General Medical Sciences



## Across ►

3. Honored for being the first to create a molecular picture of how transcription works in eukaryotes
6. One of two honored for magnetic resonance imaging discoveries
7. A 2001 prize highlighted the identification of key molecules that regulate the \_\_\_\_\_ and thus control many aspects of cell growth
9. Olah received a prize for contributions to the study of cations from carbon compounds, also called \_\_\_\_\_
12. Chemistry prize for discovering and developing a natural jellyfish molecule called \_\_\_\_\_, now widely used for looking inside cells
14. A 2009 prize recognized work on protective chromosome caps called \_\_\_\_\_
15. Chemistry prize for identifying how the \_\_\_\_\_ molecule helps cells break down proteins
17. A research trio won a prize for studies of the structure and function of the large protein-RNA complex known as the \_\_\_\_\_
18. Prusiner discovered these infectious agents made mostly of proteins
19. This Nobelist developed mass spectrometry techniques for studying biological macromolecules

## Down ▼

1. 1995 prize recognized discoveries in the \_\_\_\_\_ mechanisms that control early embryonic development
2. John Pople won a prize "for his development of computational methods in \_\_\_\_\_ chemistry"
4. Prize-winning work on this method for making carbon-carbon bonds has led to one of organic chemistry's most important reactions
5. A 2000 prize recognized a type of signal transduction between \_\_\_\_\_ cells, which has helped us understand brain function
8. A research trio won a 2007 prize for discovering how to inactivate or "\_\_\_\_\_ " single genes by introduction gene modifications
10. The 2002 prize recognized work on programmed cell death, also known as \_\_\_\_\_
11. Honored for work on chirally catalyzed oxidation reactions, a technique to selectively control the outcome of chemical reactions
13. One of two scientists who discovered G proteins, which transmit and regulate signals in cells
16. MacKinnon received a prize for studies of this type of membrane protein channel
17. A 2006 prize recognized the discovery of \_\_\_\_\_, gene silencing by double-stranded RNA

# Answer Key

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## Across ►

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- 3. KORNBERG
- 6. LAUTERBUR
- 7. CELLCYCLE
- 9. CARBOCATIONS
- 12. GFP
- 14. TELOMERES
- 15. UBIQUITIN
- 17. RIBOSOME
- 18. PRIONS
- 19. FENN

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## Down ▼

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- 1. GENETIC
- 2. QUANTUM
- 4. METATHESIS
- 5. NERVE
- 8. KNOCKOUT
- 10. APOPTOSIS
- 11. SHARPLESS
- 13. GILMAN
- 16. ION
- 17. RNAI

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