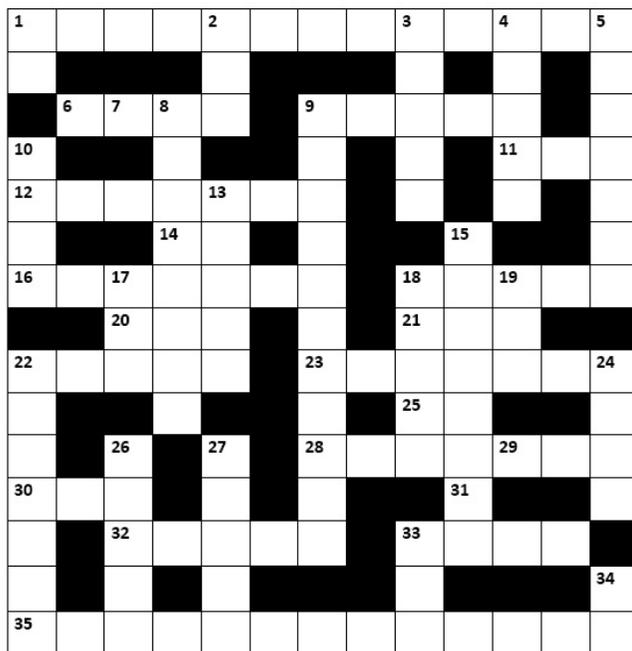


Crossword



The majority of clues and answers in this crossword are related to the theme of women in science.



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1A, (3D, 23A), (5D, 4D), 9A, 19A, 27D, (28D, 23A), 36A are all women who won Nobel prizes for their scientific work. 8D did scientific work that played a (controversial) key role in work that was awarded the Nobel prize, we do not know if she would have shared in the prize, as she had, sadly, passed away by the time the prize was awarded. 34A made a discovery that was awarded the Nobel prize, but – extremely controversially – the prize was given not to her, but to her PhD advisor (who had initially refused to believe her results). 13A was a female scientist who lived centuries before the Nobel prize was even thought of. 9D made an important discovery that makes her currently a hot favourite to win the Nobel prize in chemistry or biology. Several other clues are also related to female scientists.

CLUES ACROSS

1. Inventor of nuclear shell model, one of only two women to have won Nobel prize in physics (8–5)
6. Usually the brightest star in a constellation – radiation discovered by Rutherford (in US) (4)
9. Greider, Nobel prize in 2009, for discovering ‘how chromosomes are protected by telomeres and the enzyme telomerase’ (5)
11. Female reproductive cells found inside supernovae (3)
12. Mathematician and philosopher, lived in Alexandria in the 4th C AD, was killed by a mob, making her an early feminist martyr (7)
14. American coin is ferromagnetic element (2)
16. A type of computer or what you see when you switch on your computer? (7)
18. Pharmacologist Gertrude, won Nobel prize ‘for discovery of important principles for drug treatment’ (5)
20. I will be sick? (3)
21. Surya in Rome – colloidal dispersion (3)



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22. Two men and two women with this as a whole or part of their surname have won Nobel prizes (5)
 23. Gaseous oxide that makes you laugh? (7)
 25. Rhenium (2)
 28. Haematite or magnetite, for example (4, 3)
 30. Short linear α olefin found inside mammal aorta? (1, 1, 1)
 32. Guide a bull? (5)
 33. The kind of alarm that should have rung when she didn't get the Nobel prize for discovering pulsars? (4)
 35. Françoise, Nobel Prize in 2008 'for discovering the human immunodeficiency virus' (5-8)

CLUES DOWN

1. Move – Japanese game – graphene oxide (2)
2. Plant used by Mendel to discover the fundamental laws of biological inheritance (3)
3. (With 22A) She is the only woman to have won two Nobel prizes (5)
4. See 5D
5. (with 4D) She won the Nobel Prize in 1977 'for the development of radioimmunoassays of peptide hormones' (7, 5)
8. Rosalind who helped discover the structure of DNA, or Benjamin who invented lighting conductor (8)
9. Emmanuelle, co-winner with Jennifer Doudna of Breakthrough Prize for discovery of using CRISPR-Cas9 for genome editing (11)
10. (3D, 23A) discovered radium and polonium in this kind of small temporary structure (4)
13. Countess Lovelace, the — of Ada, the world's first computer



programmer (5)

15. Nightingale, Lady with the Lamp, invented pie charts (8)

17. Knightly 13D of Ernest Rutherford or Tim Berners-Lee (3)

18. Prefix for female hormone – dying about causes destroying (5)

19. Injection locked oscillator inside epsilon (1, 1, 1)

22. Charge unit (7)

24. Unit of reproduction of a plant; Barbara McClintock did famous experiments that showed how the color of its coat could be changed (4)

26. May-Britt, Nobel Prize in 2014 ‘for discoveries of cells that constitute a positioning system in the brain’ (5)

27. Daughter of 3D, Nobel prize ‘for synthesis of new radioactive elements’ (5)

33. Life sciences CV (3)

34. Greek letter that, famously, is NOT equal to $22/7$ (2)

