

February 2020 wordoku

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| | B | | | | | Q | I | E | |
| E | | | | | T | S | | | |
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| | T | | E | | S | | U | | |
| U | I | | | B | | T | Q | | |
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Solve this wordoku in the same way as a sudoku with letters instead of numbers (each of the nine letters in each row, column and nine-square cell). Once solved, one of the overall diagonals can be rearranged into the name of a small regulatory protein.

February 2020 crossword

| | | | | | | | | | | | | | | |
|----|----|--|---|--|---|--|----|--|----|--|----|--|----|----|
| 1 | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | 10 | | | |
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| | 11 | | | | | | | | 12 | | | | | |
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| 13 | | | | | | | 14 | | | | 15 | | | 16 |
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| 17 | 18 | | | | | | | | 19 | | | | 20 | |
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| 21 | | | | | | | | | | | | | | |
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| 23 | | | | | | | 24 | | | | | | | |
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| 25 | | | | | | | | | | | 26 | | | |

Entry form

There are four prize puzzles on this page: cryptic crossword; quick crossword; wordoku; and science scramble. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 UK book voucher, or alternative of equivalent value for non-UK residents.

You can enter any or all of the prize draws, but each entrant is only eligible to win one of the individual puzzle prizes each month.

Please enter your details below and either post or email this page with your completed entries to us by **20 February 2020**. The winners of this month's puzzles will be published in the March 2020 issue, along with the solutions.

Chemistry World puzzles, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK
Email: chemistryworld@rsc.org

Name

Address

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Participants are advised that any personal information supplied will be processed in connection with this competition and only in accordance with our privacy statement (www.chemistryworld.com/privacy).

February 2020 science scramble

Similar to a word ladder, each answer provides letters that must appear - including duplicates - in the answer immediately following it. The puzzle's final answer is a scientist or someone who contributed to science.

For example:

- 1 sail
- 2 snail
- 3 saline
- 4 minerals
- 5 Neil Armstrong

Like (2)

Donkey (3)

Fish (4)

Alloy (5)

World's first female physics professor (1711-1778) (5,5)

Cryptic (prize entry)**Across**

- 1, 17 Across Italian scientist of constant fame oddly avoids average mood abroad (6, 8)
 5 Ruins cake we regularly brag about (8)
 9 Sheltered around derelict outskirts of Soho (10)
 10 Marginal advantage? (4)
 11 I scream about thyroid science (14)
 13 After last lap, Anita returns to finish (6)
 14 Some preferring to never call? (8)
 17 See 1 Across (8)
 19 Old insecticide left in drain somehow (6)
 21 Confused cannibal may endlessly cook this supplement? (14)
 23 Nan leaves a funnel containing petrol possibly? (4)
 24 Letters about liar's page I copy (10)
 25 Union's small account converted to capital (8)
 26 Extremely foolish leaving flashers to reveal their lights (6)

Down

- 2 Maria takes a little aluminium for her condition (7)
 3 Cold wind lingering but abating? (9)
 4 Cried about a photo of the body? (11)
 5 Rocket scientist braver when on run perhaps (7, 3, 5)
 6 Finish last of game woman started (3)
 7 Cycle around Berkshire briefly? (5)
 8 Cosmonaut transmutes element 111 again (7)
 12 I'll tell many about the poorly (8, 3)
 13 Pulse initially probes every artery (3)
 15 Mad about strike leaving traces? (9)
 16 Bird Tehran oddly ignored (3)
 18 Peeping Toms turn very sour right away (7)
 20 Surprisingly is on unevenly reined charger (7)
 22 Many Londoners hiding fabric (5)
 24 Start preparing her introductory letter (3)

Quick (just for fun)**Across**

- 1 See 26 Across (6)
 5 Units of sound (8)
 9 Launch procedures (10)
 10 Extent (4)
 11 One way of extracting coal (8, 6)
 13 Essay or biography (6)
 14 Climbed (8)
 17 Eclipsing (8)
 19 Small finch, male sporting a red breast and forehead (6)
 21 -CH₂- (9, 5)
 23 Stopper (4)
 24 Third layer of the Earth's atmosphere (10)
 25 What a taxonomist does (8)
 26, 1 Across British theoretical physicist (1932-2016) whose work led to the discovery of 22 Down (3, 3, 6)

Down

- 2 Variant of an atomic element differing in number of neutrons (7)
 3 Having the C₆ structure proposed by Kekulé (9)
 4 Relating to a layer of tissue lining the heart's chambers (11)
 5 US radiochemist involved in the discovery of elements 114 to 118 (4, 11)
 6 Opposite of *trans* in organic chemistry (3)
 7 See 22 Down (5)
 8 Throat sweet or a diamond shape (7)
 12 Fungi specialists (11)
 13 Reciprocal of a unit of electrical resistance, named after the German physicist Georg Simon Ohm (3)
 15 Not conforming to religious law (9)
 16 Organochlorine insecticide, banned in most countries (abbrev.) (3)
 18 Not the same (7)
 20 Type of grass (7)
 22, 7 Down Elementary particle predicted by (and named after) a British theoretical physicist (5, 5)
 24 Medical scanner that uses magnetic fields and radio waves to image the body (abbrev.) (3)

January 2020 solutions and winners**Cryptic crossword**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F | R | E | D | E | R | I | C | K | S | A | N | G | E | R | |
| E | | M | | D | | N | | R | | T | | | | E | |
| R | E | P | E | A | T | S | | Y | T | T | R | I | U | M | |
| M | | I | | M | | U | | P | | R | | C | | B | |
| I | N | R | O | | P | R | E | T | T | I | F | I | E | R | |
| | | I | | | E | | | O | | B | | | | A | |
| D | E | C | A | P | O | D | | N | E | U | T | R | O | N | |
| E | | A | | R | | | | | | T | | A | | D | |
| S | U | L | F | I | D | E | | C | H | E | M | I | S | T | |
| I | | | | M | | V | | Y | | | | N | | | |
| C | A | T | H | O | D | E | R | A | Y | | | U | G | L | I |
| C | | R | | L | | R | | N | | S | | A | | N | |
| A | M | Y | L | E | N | E | | I | N | T | R | U | D | E | |
| N | | | | V | | S | | D | | Y | | G | | R | |
| T | H | E | F | I | F | T | H | E | L | E | M | E | N | T | |

Wordoku

The name of the 2019 Nobel prize winner was (Sir Peter) RATCLIFFE

Science scramble

- 1 Gas
2 Sage
3 Degas
4 A grades
5 Sir Edward Elgar

Quick crossword

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | A | R | G | U | E | R | I | T | E | P | E | R | E | Y | | |
| A | | E | | L | | O | | E | | E | | | | T | | |
| R | E | T | I | N | A | E | | R | A | R | E | B | I | T | | |
| I | | I | | A | | D | | B | | S | | A | | E | | |
| E | T | C | H | | | H | E | L | I | C | O | P | T | E | R | |
| | | U | | | | E | | U | | N | | | | B | | |
| S | U | L | P | H | U | R | | | | M | E | N | I | S | C | I |
| T | | E | | E | | | | | | E | | E | | T | | |
| E | P | S | I | L | O | N | | | | C | A | L | O | R | I | E |
| A | | | | M | | O | | H | | | | E | | | | |
| M | A | N | C | H | E | S | T | E | R | | | A | N | N | E | |
| S | | M | | O | | T | | K | | S | | G | | U | | |
| H | U | R | D | L | E | R | | | | H | U | S | S | E | R | L |
| I | | | | T | | I | | O | | R | | T | | E | | |
| P | A | U | L | Z | E | L | A | V | O | I | S | I | E | R | | |

January winners

- Science scramble N Farrer & T Quested Leamington Spa, UK
 Wordoku R Hollingworth London, UK
 Cryptic crossword K Whittaker Newbury, UK
 Quick crossword K J Williams Kings Worthy, UK