## Wordoku

| $B$ |  |  | $U$ |  |  | $N$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $R$ |  | $S$ | $U$ | $C$ |  |
|  | $R$ |  |  |  |  |  |  | $S$ |
|  |  |  |  |  |  | $S$ |  | $K$ |
|  |  | $C$ | $N$ |  | $L$ | $R$ |  |  |
| N |  | A |  |  |  |  |  |  |
| C |  |  |  |  |  |  | L |  |
|  | A | L | S |  | K |  |  |  |
|  |  | $U$ |  |  | B |  |  | $A$ |


| $A$ |
| :---: |
| $B$ |
| $C$ |
| $K$ |
| $L$ |
| $N$ |
| $R$ |
| $S$ |
| $U$ |

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 an Australian nobelist who worked on molecular biology.

## Word grid

| Sn | O | Ti |
| :---: | :---: | :---: |
| Ta | Fl | Es |
| Ir | U | S |

Prize entry: Using each element symbol in the grid only once, combine them together to make a single word of 15 letters.

Word.
Just for fun: Construct as many other words as you can using a minimum of three symbols, and each symbol only once. 6 words: OK
9 words: Good
12+ words: Excellent

## Entry form

There are four prize puzzles on this page: crossword (cryptic answers only); wordoku; molecule search; and word grid. For each puzzle, a winner will be selected from all the correct entries received and awarded a $£ 25$ book voucher.

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 2018. The winners of this month's puzzles will be published in the March 2018 issue, along with the solutions.

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

Name
Email
Tel
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).

## Crossword



## Molecule search



Connect atoms in adjacent cells using single or multiple bonds to reveal the hidden molecules. The hexagonal grid necessitates some minor distortion of bond angles, for example in five membered or saturated rings.

Find two molecules with the molecular formula $\mathrm{C}_{10} \mathrm{H}_{18} \mathrm{O}$. We've already started one of them for you.
Clues: The two molecules are $E / Z$ isomers. The isomerism is represented in the way the molecules are displayed in the grid.

## Cryptic (prize entry)

## Across

1 First Sally Ann shows her ribbon (4)
3 Their hawks disturbed large fish (5, 5)

10 Zorba initially really ill around bird (9)

11 Glib sentence containing playwright (5)
12 Psychotherapist contract? (6)
13 Africans a little smug and answerless (8)
15 Compromises upset a stoic commando (14)
17 Writer right cheat around Asia! (6, 8)

21 Lacking nerves, cease to upset Head Teacher (8)
22 Some Eurostar machinery used for the road (6)
24 Hot aircon? Broken timer! (5)
25 Liar came around to hard animal product $(5,4)$
26 Study of young birds only about goose breeds finally? (10)
27 See 18 Down (4)

## Quick (just for fun)

## Across

1 Uncommon (4)
3 Condiment $(5,5)$
10 Small bird named after the sound of its song (9)
11 Conifer (5)
12 Sliding (6)
13 See 1 Down (8)
15 Radioactive decay process (7,7)
17 Antiknock petrol additive, now banned in most countries $(10,4)$
21 Magnetic appeal (8)
22 Medical drink made from barley (6)
24 Small person (informal) (5)
25 Type of tuna (9)
26 Puzzles (10)
27 Advantage (4)

## Down

1,20 Down Physicist orders canaries in twos $(3,5,6)$
2 Craze about odd Slav cocktail (7)
4 Reportedly atmospheric beneficiary? (4)
5 Gel Therapy modified Marconi's invention (10)
6 Methodically cynical about its life (14)

7 Don't vote in a brat right away with some initial confusion (7)
8 Top endocrinologist endlessly asking about enzyme (6)
9 Changes sort of animator's stunt (14)

14 Clerical claimant so in turmoil (10)
16 Last July ox cruel around antelope (8)
18, 27 Across Old comic finding love between sourpuss and socialist? $(7,4)$
19 May pant about drums (7)
20 See 1 Down (6)
23 Primarily simple measure of gross pollution (4)

## Down

1,13 Across English chemist who contributed to the understanding of the DNA structure $(8,8)$
2 Shaped like a diamond (7)
4 Largest urban area of Germany (4)
5 Impervious to $\mathrm{H}_{2} \mathrm{O}$ (10)
6 Mixture of sodium chloride in water $(6,8)$
7 French painter who specialised in cityscapes (7)
8 Alkane (6)
9 Cladonia rangiferina $(8,6)$ 14 German chemist who gave his name to a type of flask (10)
16 Nucleobases (8)
18 Protein in connective tissues allowing them to resume their shape after stretching or contracting (7)
19 Comfortable (7)
20 Type of organic acid (6)
23 Mollusc (4)

January 2018 solutions and winners


## Wordoku

The chemotherapy drug was CISPLATIN

## Word grid

The nine-symbol word
was HOOTENANNIES

## January winners

Molecule search
Jim Jamieson,
Buckinghamshire, UK

## Wordoku

Geoff Riley, Batley, UK
Word grid
John Stanger-Moore,
Carlisle, UK
Crossword
Miriam Braham, Bushey Heath, UK

## Molecule search

|  |
| :---: |

$\gamma$-decalactone gives champagne its fruity aromas. There were also five carbon dioxide molecules to be found. Unfortunately, an error in our grid made it impossible to complete the other molecule, palmitic acid, so we disregarded it when choosing a winner.













