

August 2008 Chemistry Wordoku

					A	L		Q
		N		Q	M			E
M	A					U		
				M				
	I	U				M	L	
				E				
		I					V	L
N			Q	A		I		
A		M	V					

A
E
I
L
M
N
Q
U
V

Solve this 'wordoku' in the same way as a sudoku with letters instead of numbers (the nine letters once in each row, column and nine-square cell). Once solved, one of the overall diagonals contains the jumbled surname of a French analytical chemist who discovered two elements in the Periodic Table, and was the first to isolate an amino acid from a natural product.

D	R	O	Y	M	S	A	N	E
S	A	E	O	R	N	M	D	Y
N	M	Y	E	D	A	O	R	S
R	E	D	N	Y	M	S	A	O
Y	S	A	D	E	O	R	M	N
O	N	M	A	S	R	Y	E	D
A	D	S	M	N	Y	E	O	R
M	Y	N	R	O	E	D	S	A
E	O	R	S	A	D	N	Y	M

Solution to July 2008 Chemistry Wordoku

The Swiss chemist's name hidden in the diagonal is (Traugott) Sandmeyer, after whom the Sandmeyer reaction is named. The Sandmeyer reaction is used for the synthesis of aryl halides from aryl diazonium salts.

The winner of the July 2008 *Chemistry World* Wordoku competition is MR Whetstone, Lartington, Co. Durham, UK

The winner of this month's chemistry Wordoku will be published next month. For a chance to win a £25 book voucher, please send your completed Wordoku to the address on p2 or fax to +44 (0)1223 426017 by 15 August.

Who, where or when?



Answer: David Lavie (1916-2003) of the Organic Chemistry Department of the Weizmann Institute of Science, Rehovot, Israel, isolating potential medicinal chemicals from plant extracts. He isolated thebaine, a starting material for the preparation of the anti-addiction drug naloxone and the analgesic drug codeine, from the poppy *Papaver bracteatum* which grows wild throughout Asia Minor. He also isolated insect attractants and potential anticancer drugs from natural sources.

August 2008 Crossword

1	2	3	4	5	6	7	8
			9				
10					11		
12			13				
							14
15	16			17	18		
19			20	21			
	22		23		24	25	
26							
27			28				
29						30	

Across

- 1 Two party animal? (4)
- 3 Carbon base for Beer Lambert? (10)
- 10 I vend cash to Henry, chemist (9)
- 11 Intuit lost time for the native (5)
- 12 Raw data for dendrochronologists (5)
- 13 Discoverer of electron finds proton and Count Rumford (8)
- 15 Physicist sounds in top health (7)
- 17 Under tree but set aloft (7)
- 19 Startle satellite (7)
- 21 Endless cabbage a sign of poverty? (7)
- 22 Apes a tit for minerals seeking satisfaction? (8)
- 24 Halogen or hesitation in this group? (5)
- 27 A poem for the positive? (5)
- 28 Flour wraps misses point for mineral (9)
- 29 Hot treatments that work on asthma best? (10)
- 30 Chair isomer containing rainbow (4)

Down

- 1 Acid mother mixed for salt (9)
- 2 Opera singer takes nitrogen for a rest (5)
- 4 City that's shipshape after a fashion (7)
- 5 Love mixed chorus of a yellow-brown hue (7)
- 6 Black lead in my pocket initially takes flight (5)
- 7 Troubled countries for troubled minds? (9)
- 8 Consumes eggs and toasted sandwiches at first (4)
- 9 Make Sean wait, perspiring? (2,1,5)
- 14 Standards set for lab workers? (10)
- 16 Pooh swallows xylene, loses direction, and instrument results (9)
- 18 Scale handsome castle (8)
- 20 Fiat a rat crashed for essence of nuts? (7)
- 21 Twisted thumb is elemental (7)
- 23 Coat Hermione wore keeps the heat in (5)
- 25 Murderous Jack loses phosphorus, becoming more mature (5)
- 26 Damages planet (4)

B	A	R	N	A	C	L	E	C	H	A	N	E	L
U	J	M	E	S	E	U	I						
R	O	O	S	E	V	E	L	T	L	A	R	G	E
L	J	R	D	U	E	S	B						
I	R	A	Q	I	S	E	R	E	N	G	E	T	I
N													
G	A	L	V	A	N	I	S	E	D	Z	I	N	C
T	A	A	N	M	O	G	E	O					
O	R	C	A	O	P	E	N	P	R	I	S	O	N
N	C	S	O	A									
H	O	O	K	E	S	L	A	W	N	I	T	R	E
O	L	V	I	A	D	R	N						
U	R	I	N	E	T	E	T	R	A	P	O	D	S
S	T	R	E	E	D	L	E						
E	T	H	A	N	E	W	R	E	S	T	L	E	R

Solution to July 2008 crossword

The winner of the July 2008 *Chemistry World* crossword competition is T E Howell, Fletching, Uckfield, UK

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