

## 3D Crossword August 2020 Newsletter 8

This edition covers the following items:

1. Review of the July 3D Crossword: this months winner were Diana and Trevor East from Bracknell. Comments from Solvers
2. Solvers Comments
3. August Extra Puzzle

### 1. Review of the July 3D Crossword

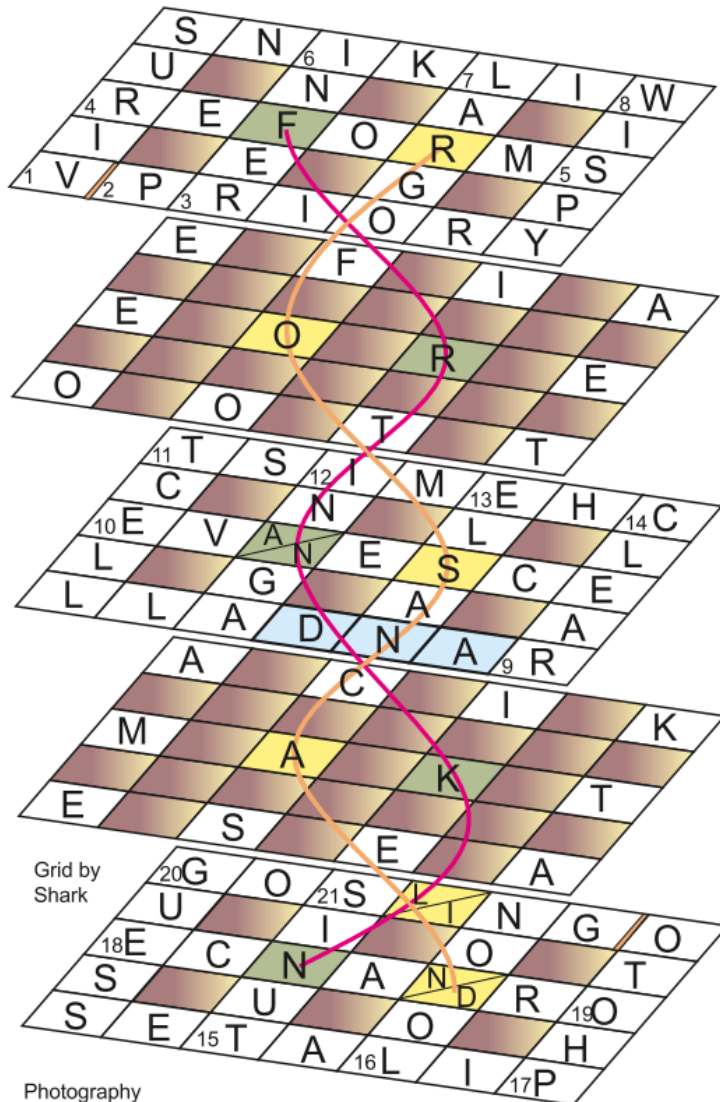
The initial rubric said the first name of a certain virus chemist born 100 years ago in London can be found following the orange curve as it visits yellow highlighted cells. Draw a second similar curve to find the surname and the theme. Three cells have each divided in two. One set of Relevant Roman numerals linked to 17 (PHOTO). The other two sets of of double letters contain three different thematic letters, identified whilst working for John Randall alongside Maurice Wilkins and mentor to Raymond Gosling. Three light blue cells will confirm. Clues are in alphabetical order.

The comments from you for this puzzle were exceptionally good. Lots said the puzzle of the year so far. I agree that it was a cracker. I always enjoy science themed crosswords so this one whetted my appetite as soon as I'd solved the very first clue, CHEMIST. Very crisp cluing made solving a pleasure. I particularly enjoyed clue 11 "ship following loch slow..." giving LARGO leading seamlessly into clue 12 "...it's also fast finding opening to ocean" for LENTO. Great picture clues too this month.

The orange curve led to ROSALIND. Some of you realised immediately that we had the first half of a DNA representation. We then had to pencil in the other half of the spiral to give FRANKLIN. How splendid was that. Picking out the Roman numerals LI was a little trickier and required a bit of web research to establish PHOTO 51.

It was good to see the unsung heroine of Crick and Watson's amazing discovery of the structure of DNA, which her photo 51 did much to assist, commemorated. Of course the Nobel committee do not make posthumous awards so Rosalind Franklin sadly missed out.

### 3D July 2020 Crossword Solution



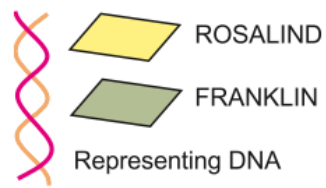
Grid by Shark

Photography Graham Fox



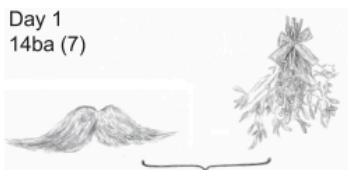
## Shark

This crossword celebrates the centenary of the birth of CHEMIST ROSALIND FRANKLIN, born 25 July 1920 in LONDON, who first captured the structure of DNA using X-ray crystallography (as illustrated in PHOTO 51). At the time she worked for RANDALL, alongside WILKINS and her student was GOSLING. Whilst alive, she was known for analysing the molecular structure of the VIRUS. She was not given a Nobel prize (unlike WILKINS as they were not awarded posthumously), having previously died of ovarian cancer at the age of 37.



#### CHEMIST

Day 1  
14ba (7)

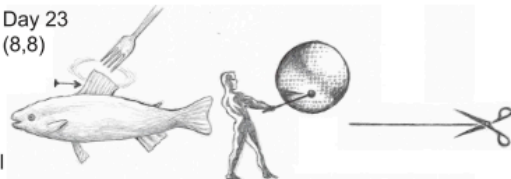


Drawings by Frank Paul

(mousta)CHE + MIST(leton)

#### ROSALIND FRANKLIN

Day 23  
(8,8)



(DORSAL FIN)\* + RANK + LIN(e)

### 3D July 2020 Crossword; Clue Explanations

Day	SOLUTION	Direction - Clue - Letter Count	Explanation
1	CHEMIST	14ba Brief shift that's original for this job (7)	CHEMIS(e) T
2	CLEAR	14to Bright academic finally finds real upset ... (5)	(academi)C REAL*
3	ELSAN	13to Convenience and flair captures source of structure (5)	ELAN (around) S
4	EMEER	18up Space alongside Eastern Queen (an Islamic ruler) (5)	EM E ER
5	EVANESCE	10ac Disappear from church after vehicle's surrounded by escort in reverse (8)	CE (after) VAN (inside) SEE<
6	GATES	20up Openings for entrepreneur (5)	GATES (double def)
7	GOSLING	20ac Wee then hurl – it honks! (7)	GO SLING
8	GUESS	20to Bet that pub's been dropped from brewery (5)	GU(inn)ESS
9	INANGA	12to Fish swimming again around Norway (6)	AGAIN* (around) N
10	INFER	6to Conclude it's more showy with top down (5)	FINER (with F moved)
11	LARGO	7to Ship following loch is slow ... (5)	ARGO (after) L
12	LENTO	16up ... it's also fast finding opening to ocean (5)	LENT O(cean)
13	LIE-IN	7d Rest make up story on the spot (3-2)	LIE IN
14	LONDON	16aw By deduction	
15	ORDNANCE	19ba Soldiers having a ball hiding Navy munitions (8)	OR DANCE (around) N
16	PARTY	17up Bash Yankee after scrap (5)	Y (after) PART
17	PHOTO (51)	17aw By deduction	
18	PILATES	17ba Swimmers bringing forward international for exercise (7)	PLATIES (with I moved)

19	PRIORY	2ac Nose about port's religious community (6)	PRY (around) RIO
20	RANDALL	9ba By deduction	
21	REFORMS	4ac Turns over a new leaf, half read in favour of manuscript (7)	RE(ad) FOR MS
22	ROAST	3d Criticise Persian prophet- stripping twice (5)	(zo)ROAST(er)
23	ROSALIND FRANKLIN	See yellow and mauve curves and cell highlights (8,8)	
24	SCI-FI	21up Aliens, perhaps, whenever in space film, devoured regular characters (3-2)	IF (inside) S(pa)C(e f)l(lm)
25	SEE TO	5d Take care of rising support – provided housing (3,2)	SO (around) TEE<
26	T-CELL	11to Small fighter's rat guarding corps (1-4)	TELL (around) C
27	TUNIS	15aw Capital territory initially moved in single blocks (5)	UNITS with T(erritory) moved
28	VIRUS	1aw It's tackled by 25 with force embodying sport (5)	VIS (around) RU
29	VOLES	1d In vivo lesser rodents (5)	(vi)VO LES(ser)
30	WACKO	8d Mad, bad and sad expression (5)	WACK O
31	WILKINS	8ba By deduction (7)	
32	WISPY	8to Won game – slight (5)	W I-SPY

## 2. Solver's Comments

Neatly done! Favourite clues: 11/12 or 7. I work in Cambridge and most days I walk past the building in which Watson and Crick did their work; it's round the back of a plaque on the wall saying 'In this building JJ Thomson discovered the electron'. Weird to have those ghosts watching over me. I'm sure that people will comment that Franklin deserved to share the Nobel Prize for the discovery of the structure of DNA; there would have been a very good argument for it, but she was dead when it was awarded, and they're never awarded posthumously. HS

Interesting, required research ML

Fine puzzle - I particularly liked the reference to Photograph 51. TH

Enjoyed - quite straight forward theme discovered early so helped on the answers 9/10 RC

Lots of really interesting history attached to that crossword. RE

Very nice grid construction: loved the double helix! Lots of nice clues and we were very amused by the delightful surface for Day 7 (Gosling). We also loved the Frank Paul clue for Rosalind Franklin. Minor quibble - it'd be great to include letter counts for days 14 and 20. Thanks! N&SI

The design of this puzzle was amazing, exploiting fully the opportunities of 3D. The 'double helix' formed by the two 8-letter names going down only five layers was marvellous, especially in the bottom layer where it crossed the words LONDON, GOSLING and ORDNANCE (the first two of these themselves being thematic). Congratulations to Shark. And thanks to Frank Paul, whose drawing is, I think, the first that I have managed to unravel fully in this year's calendar. AB

Very interesting theme on a great lady. Still wondering about this method of entering answers. What about showing the double helix? Is it not a must that the scanned 3D crossword has also to be submitted? PC

Enjoyed this and had the added satisfaction of sussing out the drawings too. Don't usually. RR

I learned a lot about the science of crystallography from doing this puzzle, an area of discovery about which I knew very little. What a wonderful way to celebrate the amazing achievements of Rosalind Franklin in 1920. Thank you to Shark for a terrific puzzle based on a fascinating subject. [My Mum's elderly cousin died this year aged 93 (she was a nurse, a geneticist and a sister in a religious order). She made strong contributions to the investigation of ways to mitigate against the Rhesus negative gene which caused such complications for babies back in the day, and also performed pioneering work in DNA in Australia. I was reminded of Sr Regis Mary by the story of Rosalind Franklin.] JA

Quick and snappy! ET

Loved the theme, and how appropriate to have a double helix giving her name! RS

An enjoyable puzzle with an interesting theme. I liked the 'snakes' and the Roman numerals ideas. All well clued with not many obscure words. A pleasure to solve. JP

An interesting subject with nicely paced clues. The formation of the double helix from Rosalind Franklin's name was a clever surprise. BB

If Rosalind Franklin had been male, she would have shared the Nobel Prize HB

Great - one of the few where a picture clue has been the key to breaking into it. GB

Only had problems with the parsing of a couple of clues & 23 new to me. Expected to have to highlight double-letter cells + mention PHOTO 51 & DNA. Overall, an enjoyable & not difficult puzzle MN

Absolutely loved it! Delighted to see a science theme and the double-helix formed from the two curves was genius. And excellent to see a woman scientist celebrated. CW  
Very clever! It was a challenge, but I enjoyed it (once I got the theme!). DS

The instructions sounded a bit difficult but once I got into it, it made sense. MP

Bit more head scratching this month. Good idea for a theme - female lives matter! None of my lists of fish gave me Inanga and I found it via an anagram solver. Also had to look up Photo 51 on Wikipedia. I had been dithering whether 8d was Wacko or Wacky but photo resolved that. (I remember my father watching Jimmy Edwards in Whack-O) I'm getting the hang of Frank Paul's pictures so I solved (mousta)che + mist(eltoe) and anag of dorsal fin + rank+ lin(e) PD

Not too difficult once I got started. I suppose colouring the LI half green might have been confusing. I understood the picture clues to 1 and half of 23 - a first. Aren't the N and D the wrong way round in LONDON? Is the background picture supposed to represent coiled DNA?" MJ

A lot harder than previous ones, but still enjoyable! D&MB +J

I found this hard going but very enjoyable.....and learned a lot about a very overlooked lady. Thanks to everyone involved. SW

Excellent and challenging puzzle, with some brilliant clues. A lovely theme too! JM

It was a while to identify the theme - and I needed to look her up to check the other people Shark had included, especially as one of them included DNA, and I liked the fact that her name had been embedded as a double helix. Frank Paul's drawings were not much help. (I only realised that the bunch of stuff in the first is **mistletoe** after getting 14ba. and although the second clearly has 'fin' and 'Rank' I don't see how to get Rosalind from the fork and scissors.) The Persian prophet on the 22nd gave me pause, but he eventually came to mind - so am glad I didn't need an alphabet-trawl! PM

Best of the year so far, beautifully constructed with so many linked thematics and very witty clues (appreciated particularly days 3, 7, 22 but also the subtle linking of 11 and 12). I even understood the picture clues (a first, including in some cases after they had been 'explained'!) Less grunted post-script! Having praised the puzzle (and I don't retract that) I submitted and find I have made a mistake. Well, if any answers other than days 27 or 30 are wrong, I maintain that my answers are as good as any alternatives. For those two I was not confident and do not fully understand the answer (TINTS or TINCS? WACKY or WACKO?) but have resubmitted with all combinations of each and it is still generating the error message. Judgment will remain suspended until we see (and I don't suppose I'll ever bare my soul as much as this again!).” EF ([Glad you enjoyed it, you will now have seen that the answer to day 27 is TUNIS-Editor](#))

Very enjoyable and encouraged me to research the theme. PW

Double helix graphic was an early give away for the theme which led quickly to many letters in the grid. High quality logical clues. J & JH

Another entertaining 3D Puzzle with clever clues and a great theme. CH

Thanks to Shark for one of the tougher ones in the series. Clues excellent, with a special mention for the largo/lento and slow/fast pairing, which was clever (though some might object to liberal interpretation of largo?) The orange line and its partner were very nicely worked in. Good to commemorate RF in a puzzle; good to see T-cell and virus getting a mention, as one hears so little of them these days...AC

I thought I'd seen it all when we were presented with alternative grids in May, but a double helix subsumed within a grid pretty much takes the biscuit. Pretty amazing stuff! PA

How clever! A real pleasure to solve. MM

Helped with surname by news of new 50p coin. Best is 8. Other names came from clues or extras. Thought that London was wrong way round for ND. Originally had Wacky and looking for eg Peony Li as another helper, until I came across Photo 51! All clever and nicely topical. Well done everyone. DM

This was a devilishly-difficult challenge, especially for those of us who previously had no knowledge of the history of the discovery of DNA or its principal scientists. How Shark knew to include virus in the grid is beyond me: we could do with him or her at the helm going forward!! I thoroughly enjoyed the crossword, it was very different and satisfying once one got the hang of it. Thank you. SF

Fascinating to discover the unknown history of Rosalind Franklin - as so often, the woman behind the scenes who is the true genius at work. Thanks for inspiring me to go and look her up! The use of the double helix was nicely done - with the DNA positioned cleverly in the middle. SB

A most challenging and enjoyable puzzle. Celebrating the all-too-short life of chemist Rosalind Franklin, whose DNA work (Photograph 51) was used by Watson and Crick in their research. I have drawn the curve for FRANKLIN on my hard copy and note it references the helical structure of DNA. AM

It took a while to identify the theme - and I needed to look her up to check the other people Shark had included, especially as one of them included DNA, and I liked the fact that her name had been embedded as a double helix. Frank Paul's drawings were not much help. (I only realised that the bunch of stuff in the first is MISTletoe after getting 14ba. and although the second clearly has 'fin' and 'Rank' I don't see how to get Rosalind from the fork and scissors.) The Persian prophet on the 22nd gave me pause, but he eventually came to mind - so am glad I didn't need an alphabet-trawl! PM

Great puzzle and grid. I love the extra parts to solve, and the cleverness of the grid design. And the submission process is a delight! Thank you all. BS

A very worthy subject of the puzzle and nice use of the double helix. I started this one late but it was definitely more accessible than some of the earlier puzzles this year. Only day 30 didn't really parse for me. JN

A sneaky and rather tricky puzzle, with a great twist! DH

A steep learning curve on the theme of this one and a very slow start on the solution but once the penny dropped it was a most enjoyable challenge. There are one or two I can't parse so I hope they're right. I think I worked out Day 8 though. It wasn't a GUESS and that was my clue of the month. JB

Well done for celebrating RF's 100th. Last one in: ROAST Only later found the wordplay as [zo]ROAST[er]. Favourite Clue GU[in]ESS. I thought LIE-IN could just as easily be LIE-ON except that is never hyphenated (it would poke into the small of your back)LONDON had me fooled because I read the double letter in the ""Away"" direction so was looking at ??DN?N for a while" TR

Genius puzzle, probably the cleverest calendar puzzle yet. The DNA spiral diagram to complete the puzzle was a brilliant touch too. Favourite clues, the LARGO/LENTO combination. ML-J

### 3. August Extra Puzzle

We are planning on releasing an August extra puzzle in mid August. This will be a 5x5x5 jigsaw puzzle designed and clued by "etc." I thoroughly enjoyed solving it. Without giving anything away I can say that whilst it is tricky it is not extremely difficult so do have a go. This is a chance to restore your qualification for this year's 3D World Championships if you have not got a 100% correct solve 2020 record. The release will be by email and on the website over the weekend of 15th & 16th August.

Alan Goddard