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# PHARMAPEDIA

*PSGCP E-News Letter*

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## DRY POWDER INHALERS TAKE TURNS TO FIGHT COVID -19

TFF Pharmaceuticals, Inc and AugmentaBioworks recently announced the publication of a research paper highlighting positive preclinical study results of AUG -3387, a monoclonal antibody ( mAb ) therapy for the treatment of SARS-CoV-2 infection. The AUG -3387 mAb was formulated as dry powder by using THIN FILM FREEZING process to enable direct delivery to the lungs and remove the need for intravenous infusion for delivery of Covid -19 antibody therapy. It resulted in a dose dependent reduction of viral load. This study also represent the first report of successful reduction of viral load using Inhaled Delivery of dry powder mAb therapy for Covid -19 disease.

**“NO MORE INJECTIONS JUST INHALE IT”**

**Ref:**<https://drug-dev.com/tff-pharmaceuticals-augmenta-bioworks-publish-positive-in-vivo-data-showing-dry-powder-formulation-of-covid-19-antibody-neutralizes-sars-cov-2-infection-reduces-viral-load/>

## NICE APPROVES FIRST LONG ACTING INJECTABLE HIV-1 TREATMENT

NICE has published draft guidance recommending the first long acting injectable treatment for HIV-1 infection in adults. Cabotegravir(Vocabria) made by ViiV healthcare with Rilpivrine (Rekambys) made by Janssen, has been shown in clinical trials to be as effective as oral anti retrovirals at keeping the viral load low. Both are administered as 2 separate injections which reduce the treatment period from 365 to 6 per year. NICE has made recommendations at first time for the use of an HIV treatment since this came under NICE’s remit in 2019 and also has approved the first and only complete long acting injectable HIV medicine. It provides people with treatment options that remove the need for regular daily HIV tablets.



**Ref:** <https://www.nice.org.uk/news/article/nice-approves-first-long-acting-injectable-hiv-1-treatment>

## ANTIBIOTIC RESISTANCE: HOW ARTIFICIAL INTELLIGENCE CAN TACKLE THE SUPERBUG THREAT?

A report by WHO, published earlier this year, found that none of the 43 antibiotics currently under development “sufficiently address the problem of drug resistance. In February last year, scientists at Massachusetts Institute of Technology discovered a powerful new antibiotic compound using deep-learning methods from AI. After the model was trained on around 2,500 molecules and tested on the Broad Institute’s Drug Repurposing Hub – which contains about 6,000 compounds – it identified one molecule that had a different chemical structure to existing antibiotics, and was predicted to have “strong antibacterial activity”. The molecule, named **Halicin** by the research team, was found to be effective against a number of drug-resistant bacterial strains including *Acinetobacter baumannii*, and *Mycobacterium tuberculosis* and saw the infections clear up entirely in 24 hours.

Ref: <https://www.pharmaceutical-technology.com/digital-disruption/ai/antibiotic-resistance-ai-tackle-superbug-threat/>

### PUZZLES: HIDDEN WORDS

1. Binder used in ayurvedic tablet \_\_\_\_\_
2. Cab – O –Sil is used as a \_\_\_\_\_
3. Prodrug of ampicillin is \_\_\_\_\_
4. Suitable base for antibiotic ointment is \_\_\_\_\_
5. Most common penetration enhancer
6. The polymer used to treat eye dryness

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

*Wherever there is the art of medicine, there is also a love of humanity!*

#### ANSWERS FOR THE PREVIOUS E-NEWSLETTER PUZZLE:

##### MISSING LETTERS

1. Coalescence
2. Orange peel effect
3. Pan coating
4. Stearic acid
5. Sintered glass filters

##### JUMBLED LETTERS:

1. Sodaash
2. lactose
3. Asbestos
4. beeswax

Send your correct answers to [psgcp.ceutics@gmail.com](mailto:psgcp.ceutics@gmail.com).

The first three participants with correct answers will be acknowledged in the next issue.

#### THE ANTIQUATE

First hypodermic syringe invented by physician Alexander Wood in 1854 that made mass vaccination possible today.



#### PHARMA FACTS !!!

1. Vitamin B<sub>6</sub> could help you remember your dreams better.
2. Tamper-resistant packaging was invented after Tylenol capsules laced with lethal doses of cyanide were found in store shelves that resulted in death of 7 people and the murders have never been identified

#### NEWS BULLETIN

A national digital drugs databank will help in addressing "information asymmetry" as well as provide key inputs in mapping the regulatory needs of different states, according to a pharmaceutical sector study conducted by the Competition Commission of India.

Ref: <https://economictimes.indiatimes.com/industry/healthcare/biotech/pharmaceuticals/national-digital-drugs-databank-will-help-address-information-asymmetry-in-pharma-space-cci-study/articleshow/87799432.cms>

#### CORNER OF APPRECIATION:

Congratulating the participants of previous news letter puzzles

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