



# SVBCP TIMES



PHARMACY NEWS LETTER

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## INSIGHTS

- Contents of ancient maya drug vessel revealed by new analytical method.
- Teleportation : afar from expectations.
- Jackfruit flour : A new weapon to fight diabetes.
- Cosmeceuticals
- Romosozumab : Dual acting osteoporosis drug.
- Palforzia : Treatment for peanut allergy.

## CONTRIBUTORS

S.Y.B.Pharm  
Students  
Batch 2020-21

## THE DESK OF THE PRESIDENT

My Dear Students,

Our commitment at Saraswati Vidya Bhavan's College Of Pharmacy is to provide a safe and intellectually challenging environment that will empower students to become innovative thinkers, creative problem solvers and inspired learners to thrive in the twenty-first century. High standards and benchmark for each student not only in academic performance, but also in curricular activities, and responsible citizenship for the foundation of our college. It is with pride that we hold these high standards and ask each of our students to commit to maintaining the extraordinary record of achievement and contribution that has been the legacy of SVBCP students. We have walked an incredible journey of 28 years in the midst of this journey we have earned various honours, awards and accolades. These achievements should empower you all with a stronger resolve to work yet harder until college reckoned as one of the best.

I'm very happy that the students have successfully published the new edition of "SVBCP TIMES".

Dear students, your enthusiasm and willingness make me really very proud.

Wishing you a meaningful, enjoyable and memorable year 2020-21



Dr. R. Varadarajan  
Founder President  
NES-SVB

Founder President  
Dr. R. Varadarajan

## VISION

To stand distinguished as a Centre of Excellence that fosters talent, research aptitude, entrepreneurship, human values and holistic development of competent healthcare professionals to fulfill the requirements of the industry and community at large

## MISSION

With a view to accomplish our vision, SVBCP aims to

- Provide state-of-the-art infrastructure and a teaching learning environment that is conducive for holistic development.
- instill the values of discipline, integrity, humanity and professionalism required for healthcare sector.
- nurture young professional leaders to work towards novel research ideas, innovations and entrepreneurial thinking for benefits of the community, at the large.



## CONTENTS OF ANCIENT MAYA DRUG VESSELS REVEALED BY NEW ANALYTICAL METHOD

New research, led by anthropologists from Washington State University (WSU), has deployed a novel analytical technique to reveal undiscovered compounds in an ancient Maya drug container previously thought to only be used for tobacco. As well as demonstrating the potential of this new analytical approach, the findings offer first clear evidence that the ancient Maya mixed tobacco with other plant materials.



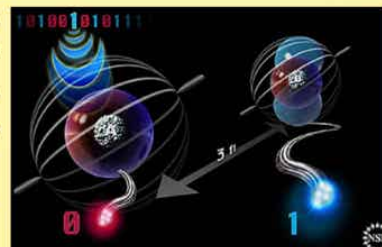
The issue with this is that while the presence of a biomarker like nicotine shows tobacco was smoked, it doesn't tell you

what else was consumed or stored in the artifact," says Gang. "Our approach not only tells you, yes, you found the plant you're interested in, but it also can tell you what else was being consumed. The new analytical method was previously demonstrated on a 1,430-year-old pipe found in Washington State. The analysis methods developed in collaboration between the Department of Anthropology and the Institute of Biological Chemistry give us the ability to investigate drug use in the ancient world like never before. The research is a stark illustration of just how little we know about ancient psychoactive plant use. And the research team is already working to acquire more ancient containers to analyze for plant compounds.

## TELEPORTATION: EXPECTATIONS

Teleportation is the hypothetical transfer of matter or energy from one point to another without traversing the physical space between them.

Quantum teleportation is based on a hypothesis described in 1935 by physicist Albert Einstein and his colleagues Boris Podolsky and Nathan Rosen, known as the EPR paradox. This "spooky action at a distance", in Einstein's words, would seem capable of violating the limit of the speed of light. Since 1998, various experiments have achieved this quantum teleportation, initially using individual photons, then atoms and more complex systems. At first the phenomenon was demonstrated at a short distance, which increased



in subsequent studies to hundreds of metres and kilometres. The current record is the teleportation of photons 1,400 kilometres from Earth to the Micius satellite in Earth orbit, an achievement successfully carried out in 2017 by the team led by Jian-Wei Pan at China's University of Science and Technology in Hefei (USTC). In these experiments, what is transmitted is information coded in bits. To teleport humans, we need to break down humans into atoms and convert into data and then teleport them. We can't guarantee whether the human will live or die after Teleportation.

## JACKFRUIT FLOUR : A NEW WEAPON TO FIGHT DIABETES

Add a little bit of bod "Jackfruit flour, a new weapon to fight diabetes" yes! You read right....

The American Diabetes association, an 80 years old voluntary organisation the US recently declared this. As we know Jackfruit is a common fruit that grows in almost all parts of India. Jackfruit Flour born and cultivated in South India, jackfruit is one of the most popular choices of vegans, especially in last few years.

James Joseph, the founder of Jackfruit 365, a company that sells the fruit in a freeze-dried form, is the brain behind this new study. His 8-year-old company sells frozen jackfruit, which has a better shelf life and goes back to its original form if soaked in lukewarm water. Jackfruit flour is made from 100% green mature green unripe jackfruits



of India. It is neutral in taste has no sweetness or aroma of the ripe fruit. Jackfruit flour has sufficient binding and is the most convenient way to control blood sugar through fruit without changing eating habits. A tablespoon of jackfruit flour in most meals will increase its nutrients without changing its taste and texture. In randomised, double-blind, Placebo controlled study, a significant decrease in HbA1c was observed within 90 days amongst participants taking 30 gm of jackfruit flour daily, as a part of diet replacing an equal volume of rice or wheat flour with high levels of soluble fiber and much lower level of



carbohydrates and calories as compared to wheat and rice. This flour is now one of the top products sought for weightless and diabetic control. It has a lot of vitamins and minerals which naturally substitute for nutrients deficiency happening in our body. It also had high fiber content which slows down the sugar release into the body. It's of a great importance and healthier in today's times as it is a storehouse of nutrients.



## COSMECEUTICALS

The term "cosmeceutical" is a new terminology for products which basically are a combination of cosmetics and pharmaceuticals. Possible claims for cosmeceuticals are, for example, hair treatment for scalp protection, hair treatment to prevent hair loss, probiotics, stem cells, anti-acne, anti-wrinkle, antioxidant, dark spot correction, keloid reduction, fine lines or wrinkles reduction. However, during the product registration,



the manufacturer or product owner of health supplements and cosmeceuticals must submit sufficient supporting

documents for the FDA's review and evaluation if they can justify the claim. Even though the term "cosmeceutical" is not new from the global market perspective, such products are considered relatively new from the Thai legal perspective. The Thai Food and Drug Administration (FDA) has been working on finding a new product category for herbal-based/herbal-related products with health claims for quite some time and has recently introduced the Herbal Product Act B.E. 2562 (HPA). The HPA will, generally speaking, regulate and manage the herbal drugs and herbal products which cosmeceutical is part of. It is anticipated that additional guidelines and regulations about cosmeceuticals market authorization will be issued.

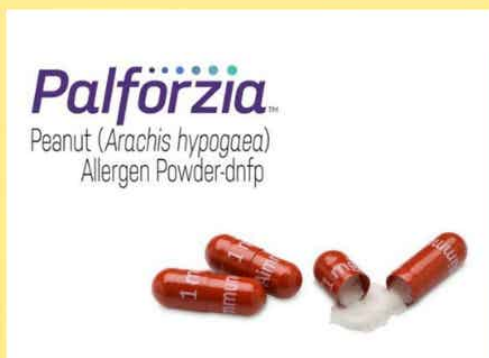
## ROMOSUZUMAB : DUAL ACTING OSTEOPOROSIS DRUG

The U.S. Food and Drug Administration today approved Evenity (romosozumab-aqqg) to treat osteoporosis in postmenopausal women at high risk of breaking a bone (fracture). These are women with a history of osteoporotic fracture or multiple risk factors for fracture, or those who have failed or are intolerant to other osteoporosis therapies. More than 10 million people in the U.S. have osteoporosis, which is most common in women who have gone through menopause. People with osteoporosis have weakened bones that are more likely to fracture. Evenity is a monoclonal antibody that blocks the effects of the protein sclerostin and works mainly by increasing new bone formation.



One dose of Evenity consists of two injections, one immediately following the other, given once a month by a health care professional. Evenity contains a boxed warning on its labeling stating that it may increase the risk of heart attack, stroke and cardiovascular death and should not be used in patients who have had a heart attack or stroke within the previous year. Common side effects of Evenity included joint pain and headache. Injection site reactions were also observed. The FDA granted the approval of Evenity to Amgen.

## PALFORZIA : TREATMENT FOR PEANUT ALLERGY



Peanut allergy is a terrifying food allergy affecting millions of children causing them to be unable to breathe after contact with the allergen. So far, emergency epinephrine is the only treatment to stop allergic reactions from peanut allergies but now a new treatment could help. An immunotherapy drug that builds up a tolerance in the body to peanuts has been successfully developed and is being tested as we speak that could save the lives of peanut allergy sufferers.

Peanut allergy is a condition in which the body's immune system mistakenly identifies even small amounts of peanut as harmful. Allergic reactions to peanut are unpredictable in occurrence and in how they

present, with some individuals experiencing severe reactions from even trace amounts. Physical symptoms can develop within seconds of exposure and may include skin reactions (e.g., hives, redness or swelling), digestive discomfort, or more dangerous reactions, such as constriction of the throat and airways, and loss of adequate blood flow to vital organs of the body. Antihistamines and epinephrine can be used to treat allergic reactions, but severe reactions can be fatal even with appropriate, prompt treatment. Palförzia cannot be used for the emergency treatment of allergic reactions, including anaphylaxis. Palförzia is a powder that is manufactured from peanuts and packaged in pull-apart color-coded capsules for Dose Escalation and Up-Dosing, and in a sachet for maintenance treatment. The powder is emptied from the capsules or sachet and mixed with a small amount of semisolid food - such as applesauce, yogurt, or pudding - that the patient then consumes. Palförzia will only be available through specially certified healthcare providers, health care settings, and pharmacies to patients who are enrolled in the REMS program. The FDA granted approval of Palförzia to Aimmune Therapeutics.



## ACHIEVEMENTS

- Sapna Vishwakarma & Sejal Maske along with Iccha Kale bagged 2nd and 4th prize respectively in quarantine diaries organized by IPA.
- Ankita Bendal stood in third place for quilling aesthetica event organised by IPA.
- Aditi Mhatre won third prize in Mukhota competition organised by IPA
- Indumati Vatti stood as 1st runner up in national level e-poster presentation organised by ARMIET college.

*We the students of SVBCP are grateful to the Founder President, Director NES-SVB and the Principal of our college for giving us this opportunity to create newsletter and propagate the innovative ideas that develop in the field of Pharmacy.*

## OUR SUPPORT PILLARS



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