



LYF DRIZZLE

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ORIGENE

DEPARTMENT OF BIOTECHNOLOGY
VIVEKANANDHA COLLEGE OF
ENGINEERING FOR WOMEN
(AUTONOMOUS)



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Chairman & Secretary
Vivekanandha Educational Institutions,
Tiruchengode & Sankari**

FOREWORD

It's our pleasure in publishing our magazine entitled "Lyf Drizzle". This book has been prepared with the approval of our College Management, Advisor, Head of the Department, Teaching and Non-teaching faculties. The need has long felt of readable sketches to exhibit the creative contests of our students. I could see through editing this magazine that our Department students possess enormous talent and skill which needs platform like this to encourage them in enhancing the same. In this juncture I would recollect that our staffs effort in encouraging the students involving in such activities remarkable without them is will not be possible. Our department is growing I could see that our students maturity and their involvement in bringing out this magazine in good shape. We would bring out the next issue still in the effective manner.

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Wast Head



Conspectus

Student Publication

Tittle Tattle

Brain Strom

Fortee Cheers



Student publications





M.SHAREEN FATHIMA

Biogas as a Value Generation from Dairy Industrial Waste Water - International journal of advanced Research in science and technology



M.MOUNIKHA

Production of biofertilizer from industrial wastewater by using microalgal treatment – International journal of advanced Research in science and technology



BRAINSTORM

A dozen exotic bacteria are found to passively collect rare earth elements from wastewater

Rare earth elements (REEs) are a group of 17 chemically similar metals, which got their name because they typically occur at low concentrations 0.5- 67 parts per million within Earth's crust. Because they are indispensable in modern technology the demand for them has increased steadily over the past few decades, and is predicted to rise further by 2030.



**SO COULD WE
RECYCLE REES MORE
EFFICIENTLY, TOO?**

German scientists from frontiers bioengineering and biotechnology have said “YES” stating The biomass of some exotic photosynthetic cyanobacteria can efficiently absorb REEs from wastewater those derived from mining, metallurgy, or the recycling of e-waste. These cyanobacteria could be used in future eco-friendly processes for simultaneous REE recovery and treatment of industrial wastewater

Low-cost microphones could be used to help track infectious disease risks in the wild

Acoustic data could be used to detect changes in the location or behaviors of animals in areas where zoonotic diseases (like malaria, yellow fever, rabies, trypanosomiasis and Rift Valley fever) exist and could pose a risk to other humans and animals. While acoustic monitoring won't replace existing field-based methods the researchers believe it could be a novel and useful tool when used in combination with current methods.

Researchers have shown how sounds recorded by low-cost microphones could be used to help track infectious disease risks in the rainforest and in other rapidly changing landscapes.

Trends in Parasitology by the University of Glasgow—says how listening to the sounds of an ecosystem can inform our understanding of factors that drive the spread of disease



By recording the sounds that animals make, researchers can detect changes in wildlife that could impact human disease risk by tracking the changes in frequency of animal calls.

Growing blood stem cells in the lab to save lives

Hematopoietic stem cells (HSCs) are important immature blood cells in bone marrow that can be triggered to develop into any blood cell type. But the widespread and safe use of HSCs is limited by barriers to cell growth and expansion in the lab (i.e., *ex vivo*).

Researchers of University of Tsukuba established a novel culture system supporting long term *ex vivo* expansion of HSCs.



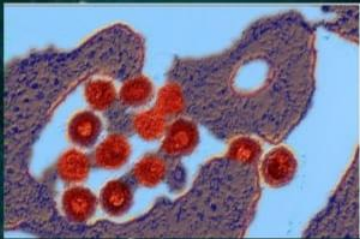
Human HSCs are frequently and easily obtained from umbilical cord blood, but this yields an insufficient number of HSCs for proper transplantation.

The addition of small molecules, certain hydrogels, various growth factors, or small molecule inhibitors to the cell culture media and adding a receptor agonist chemical known as butyzamide could stimulate cell proliferation, providing a good alternative to cytokines that were commonly used in the past,

Using a technique known as RNA sequencing, the team confirmed the successful effects of this system on gene expression in individual cells.

Ancient virus may be protecting the human placenta

Feschotte and his colleagues experimentally infected human placental cells with retrovirus, they found SUPYN competed against the pathogens making it impossible for the virus to enter the placenta. This suggested that it encodes an antiviral protein.



Feschotte team now plans to work through the dozens of other active retroviruses that they identified. He points out that although Suppressyn is recognized as a functional human gene.

About 30 billion years ago a virus infected our primate ancestors and one of its genes got trapped in their genomes. Overtime, this viral gene became domesticated and territorial. This invader is known as Suppressyn (SUPYN). A new study reveals that this viral turncoat might help the placenta protect embryos from viral infection. A biologist Giulia pasquesi of university of Colorado says finding more genes of the same might help us harness or boost our inherent antiviral properties without the need to develop new drugs or vaccines.

Little

Little

Tittle Tattle

Myth: Neanderthals were dumb brutes who didn't mingle with Homo sapiens.



Truth: As early humans breed with Neanderthals and Denisovans, another early hominin species contradicts that neanderehals did not mingle with homo sapiens

Myth: Mars is a desert of red dust with no liquid waters.

Truth: radar data suggests that a lake of liquid water might lurk beneath Mars' polar ice caps,



Myth: Drinking alcohol kills your brain cells.



Truth: Alcohol can damage the connections between your brain cells, but it doesn't actually kill them.

Tittle Tattle

Myth: Camels store water in their humps.



Truth: *Oval-shaped blood cells are more flexible and enable them to store large quantities of water not the humps which stores burn fats during travel.*

Myth: Bats are blind.



Truth : *Many bats rely on echolocation to navigate, but that doesn't mean they can't see.*



FORTE

CHEERS

POOJA.S
IIIBT



ANANDHI.S
IV B



RAMYA.P
IV BT



BASKAMBARY
III BT





JANANI SRIS
IIIBT



PRAVEENA JOCY.A
IIIBT



YOUR PARAGRAPH TEXT



DEVADHARSHINI.P
III BT



RATHNA SREE.S.S
III BT



MADHUBALA.G
II BT



VASAVI
IV BT





KIRUTHIKADEVIR
IV BT



RAJESHWARIE
III BT





SNEHA K.S

IV BT



VIJAYAMBIKA.B

II BT



MONIKHA.G
III BT



NANDHINI.S.M
III BT



**INDHUJA
IV BT**



**RABRI DEVI.M
III BT**

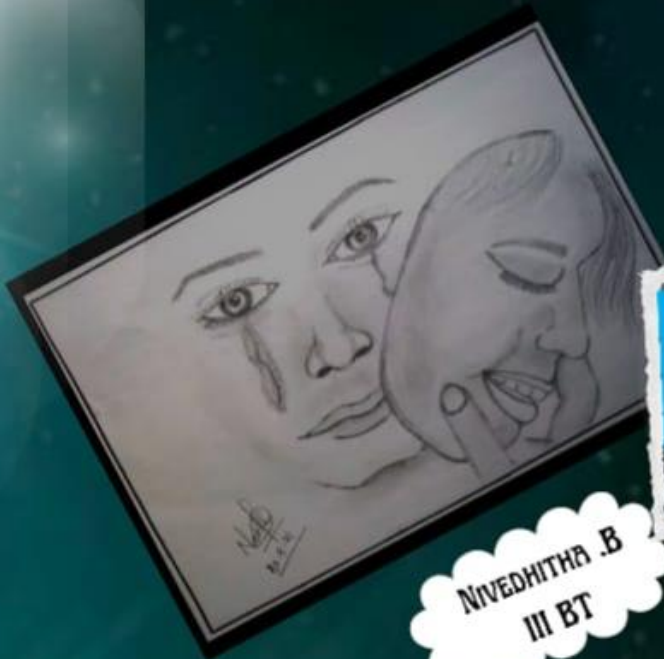




POOJA.G
III BT

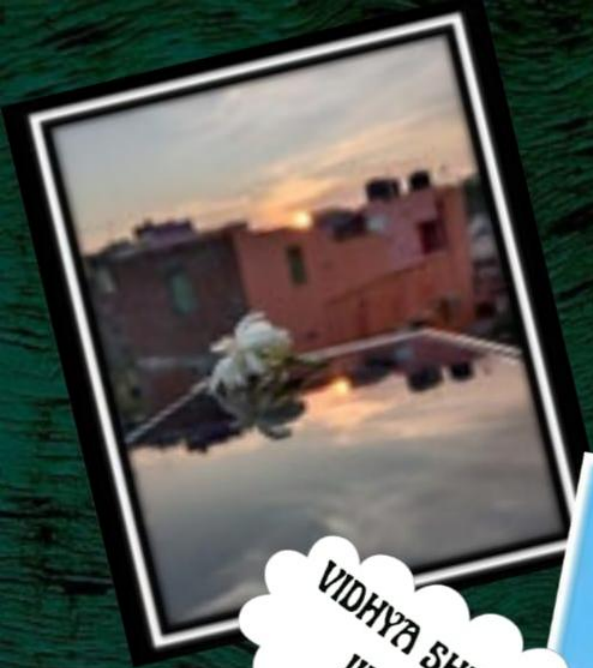


DIVYA.R
III BT

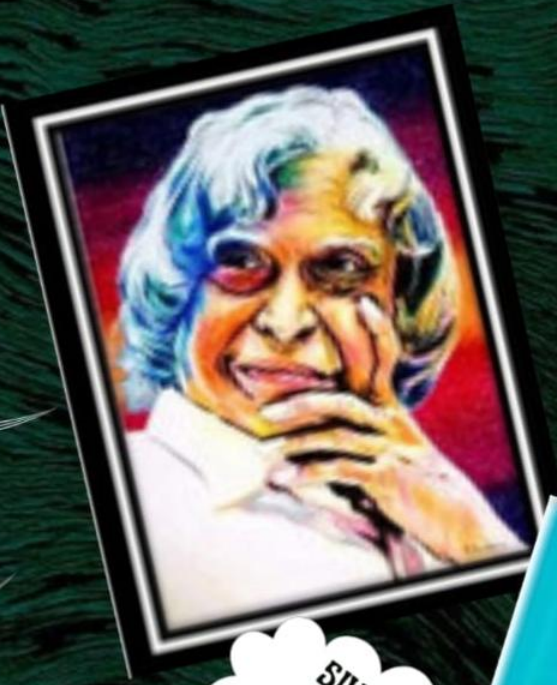
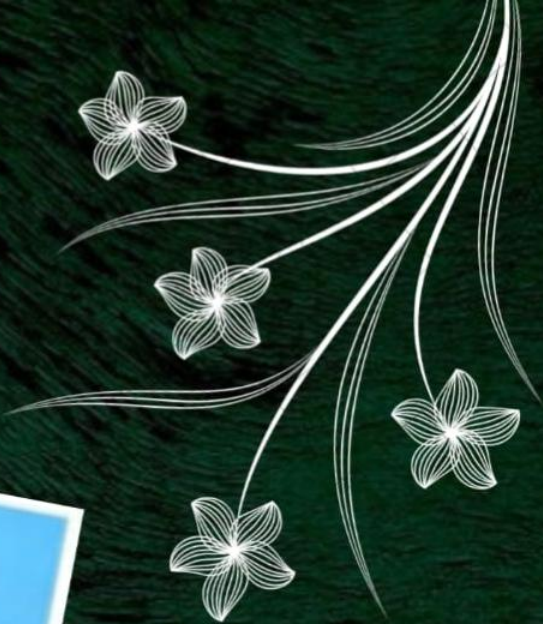


NIVEDHITHA .B
III BT

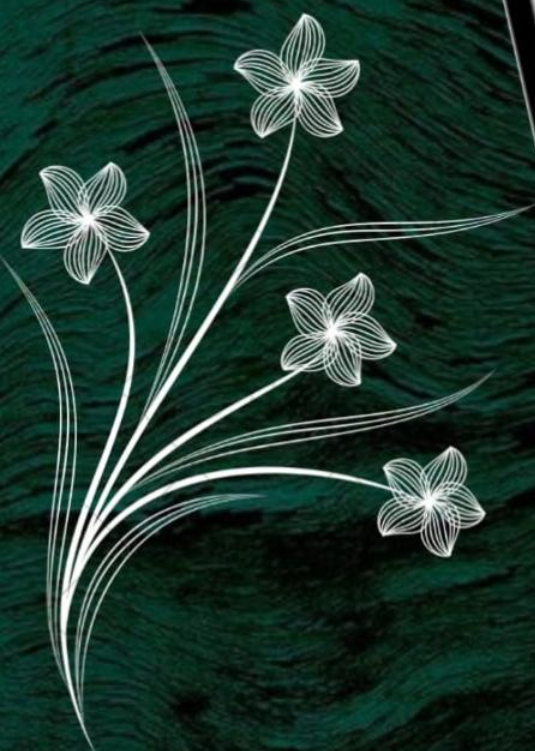




VIDHYA SHRI.S
III BT



SIVASAKTHI.R
III BT



நீ பிறந்த அந்நொடி
உன் வாழ்க்கையை
உன் கையில் அளித்து
உன் மழலையில் மகிழ்ந்து
உன் கோபத்தில் மடிந்து
உன் சிரிப்பில் கரைந்து
பல தடைகளை கடந்து
உன் தந்தையாய் நின்று
என் வாழ்க்கையை
உன் கரங்களுடன் கைகோர்த்து
புல்வெளியில் நடக்கும் ஆனந்தத்தை
உன் மனதின் அன்பால் தந்தாயடி
என் கண்மணியே !!!

தந்தையின் கண்மணியாய் நான் !!!

இரதிவ்யா

III BT



கண்ணாகி கருவிழியாகி ஒழியாகி என்
உயிரினில் ஓடும் உதிரமாகி விண்ணாகி
மின்விளக்காகி பண்ணாகி பகுத்தறிவாகி
மண்ணாகி மரமாகி நான் சுவரசிக்கும்
மூச்சாகி அனுவாகி அனுவக்துள் கருவாகி
என்னை ஈன்றவழினும்மேலாகி
உன்னையே நிதம் எண்ணும் வண்ணம் உன்
மயக்கும் அழகில் என் எண்ணம்
மறந்து தன்னிலை குலைந்து என் எழுத்தாய்
நடைஉடை பாவனயாய் என
அனைத்திலும் கலந்து கம்பீரமான ஆழமையுடன்
திகலும் நங்கையே ஞான்
இப்பிறவியன்று இனிஎப்பிறவிஎடுப்பினும் நுன்
துதி பாடி புகழ்பாடி மகிழ்வேனே
என் தாயே தமிழே!

-நா.வாசவி
IV BT



அம்மா!!!

அழகை என்றாலும்.

ஆபத்து என்றாலும்.

இன்பம் என்றாலும்.

ஈரம் என்றாலும்.

உறக்கம் என்றாலும்.

ஊக்கம் என்றாலும்.

எழுத்து என்றாலும்.

ஏக்கம் என்றாலும்.

ஐயம் என்றாலும்.

ஒரு நோய் என்றாலும்.

ஓலைக்கடியில் வாழ்க்கை என்றாலும்.

ஒள போன்று கடைசி என்றாலும்.

என்றும் முதன்மையாய் நிற்பது நீ தான் அம்மா!!!

சுவாதி வெங்கட்

IV BT

