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Issue 61
August
2018

BIOTECH EXPRESS

RNI No. UPENG/2013/54102

EVENT REPORT: International Conference on Plant Genetics and Genomics "Next Gen Crops for Sustainable Agriculture"

NEWS Professor Ashok Pandey conferred Life-Time Achievement Award by the Venus International in the area of Industrial and Environmental Biotechnology

Biotech Express : A 5 year Pictorial Journey of Biotech News Reporting

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The Only Biotechnology News Magazine

Only Global Biotech Magazine | Less Advertisements Study Guide | +Research News | Events | Policies | Notices | Career | Criticism | Fantasies | Reports | +Articles | Industry | Govt.

BEM inside...

Volume 6 Issue 1 (61) August 2018

Chief Editor
Dr. Seema P. Upadhye
(Former Principal, Biochemist)

Managing Editor:
Kamal Pratap Singh

VOLUME 6 ISSUE 1

August 2018

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The Biotech Express magazine publishes between 10th to 15th of every month.

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UPCOMING EVENTS

SelectBio's Next Gen Sequencing Event

BRSI's International Conference on Biotechnological Research and Innovation for Sustainable Development

From Desk of Editor

Dear Readers,

This month Biotech Express has completed 5 years of news reporting and has become single most source for Biotech news in India and internationally. We have always praised your support and tried to understand your choice which has made us mosre important in this sector.

In this issue we are showcasing a snapshot of 5 years of news reporting by compiling artilces in the sections like Cover news, Interviews, research news, events that became part of Biotech Express' news content.

Please be in touch as from the next issue we are starting a new theme of magazine in which we will cover each and every sector of Biotechnology in great details like we did for Stem Cell amd Coaching Industry.

All the best!
Dr. Seema P. Upadhye

Advisory Board

From the very first issue, Biotech Express team has been delivering what's best for Biosciences community. The audience of this magazine includes students, researchers, faculties and executivesof highly prestigious organizations of India. In year 2016, BEM has made new editorial Board combining experience of eminent Advisory Board Members who have been into Award winning Research and head prestigious Administrative positions.

Advisory Board Members

Editorial Board

Editorial Board Members

Editorial

Biotech Express : A 5 year Pictorial Journey of Biotech News Reporting

by Kamal Pratap Singh

It has been 5 years since Biotech Express was started with a notion to unite scattered Biotech academia and industry when there was no source of Indian news and information for academicians, scientists and industrialists. In August 2013 the first issue of Biotech Express was released and at that time our main focus was entirely to cover Academia and research of Biotech, so we started with the very basic topic of Model organisms in Biological research because no experiment can be completed without having starter culture. So in 12 issues we covered model organisms from smallest to largest which are widely used and important for research. Similarly the next volume came up with the information about top deadly diseases. In between we also Interviewed some great people who are idol for Biologists and knowledge of whose experiences might benefit the others.

This magazine provided one stop source for all information from starting and after 2nd Volume BEM diversified in its news reporting. So many changes were incorporated like an Advisory and Editorial Board was constituted of academic, research and industry people who would provide guidance toward the content selection and writing, new sections were introduced in magazine like Views, News analysis etc., industry news were started to come as main section in magazine and many otthers.

After Volume 3rd BEM started to incorporate news and views in the form of articles on current topics pertaining to Govt., research, industry and society, like GST, top journals, major events, and current affairs.

Two people will always be remembered with the name of Biotech Express, these are Prof. Kambadur Muralidhar (also the 1st subscriber) and Prof Ashok Pandey (Founder of BRSI). Biotech Express could not succeed without the valuable advices of these two people specially but contributions of many people to make this happen cannot be ignored. Now Biotech Express has become single ultimate source of Biotechnology news .

In this special article we are showing our journey of news reporting by showing major news, articles, events people that became part of the content of this magazine.

Biotech Express is a mix of Journal and magazine in both print and digital, which was started in 2013 to promote Indian Biotechnology and has become the regarded source in BioScience communication.

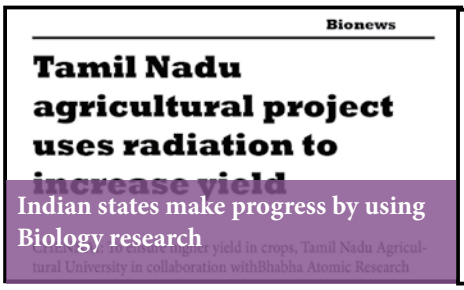
Part-1: News Covered

BEM provides Current News, Opinions and Notices about Research, Hot Products, Applications, Jobs, Industry, Conferences, Business, R&D and Funding Grants available. Our content selection protocol is very stringent and news comes in Biotech Express when it is news of National importance. So we write when:


Current news

Brain Drain of Scientists

India wanted to call their scientist back in the country


Bionews

Tamil Nadu agricultural project uses radiation to increase yield

Indian states make progress by using Biology research


Latest research

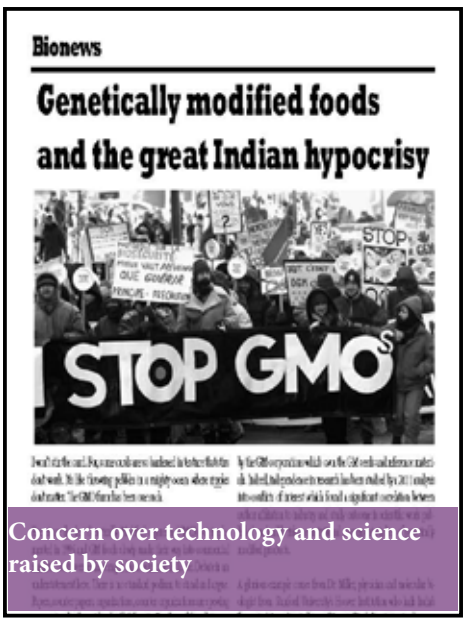
Electronic Cigarettes: New Route to Smoking Addiction for Adolescents

Nov. 26, 2013 — E-cigarettes have been widely promoted as a way for people to quit smoking conventional cigarettes. Now, in the first study of its kind, UC San Francisco researchers are reporting that, at the point in time they studied, youth using e-cigarettes were more likely to be trying to quit, but also were less likely to have stopped smoking and were smoking more, not less.


Current news

'First Bionic Eye' Retinal Chip for Blind

New Products and Technology comes in the market


Bionews

Genetically modified foods and the great Indian hypocrisy

STOP GMOs

Concern over technology and science raised by society


NIH, Lacks Family Reach Understanding to Share Genomic Data of HeLa Cells

THE IMMORTAL LIFE OF HENRIETTA LACKS

Sharad Pawar bats for GM crops in House, holds up Bt cotton as success story

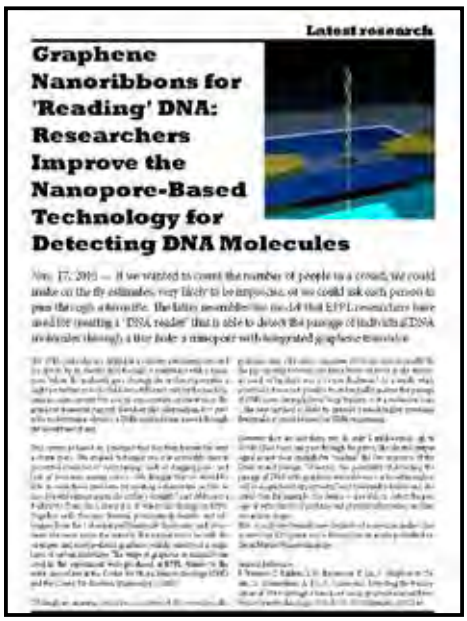
"I honestly feel that the farmer of this country is wiser than me.... It is not proper to say that Bt cotton is not useful," Pawar said.

Biotech Express Page 12


Latest research

Genome for the King Cobra Sequenced

Research break-through happens


Latest research

Graphene Nanoribbons for 'Reading' DNA: Researchers Improve the Nanopore-Based Technology for Detecting DNA Molecules


Bionews

Is CSIR chief orchestrating lobbying for his extension?

Leaders become topic of criticism

Latest research

New method increases supply of embryonic stem cells

January 27, 2014

A new method allows for large-scale generation of human embryonic stem cells of high clinical quality. It also allows for production of such cells without destroying any human embryos. The discovery is a big step forward for stem cell research and for the high hopes for replacing damaged cells and thereby curing serious illnesses such as diabetes and Parkinson's disease.

Currently human embryonic stem cells are made from surplus in vitro fertilized (IVF) embryos that are not used for the generation of pregnancies. The embryos do not survive the procedure. Therefore it has been illegal in the USA to use this method for deriving embryonic stem cell lines. Sweden's legislation has been more permissive. It has been possible to generate embryonic stem cells from excess, early IVF embryos with the permission of the persons donating their eggs and sperm.

An international research team led by Karl Tryggvason, Professor of Medical Chemistry at Karolinska Institutet and Professor at Duke-NUS Graduate Medical School in Singapore has, together with Professor Outi Hovatta at Karolinska Institutet, developed a method that makes it possible to use a single cell from an embryo of eight cells. This embryo can then be re-frozen and, theoretically, be placed in a woman's uterus. The method is already used in Pre-Implantation Genetic Diagnosis (PGD) analyses, where a genetic test is carried out on a single cell of an IVF embryo in order to detect potential hereditary diseases. If mutations are not detected, the embryo is inserted in the woman's uterus, where it can grow into a healthy child.

"We know that an embryo can survive the removal of a single cell. This makes a great ethical difference," says Karl Tryggvason.

The single stem cell is then cultivated on a bed of a human laminin protein known as LN-521 that is normally associated with pluripotent stem cells in the embryo. This allows the stem cell to duplicate and multiply without being contaminated. Previously the cultivation of stem cells has been done on proteins from animals or on human cells, which have contaminated the stem cells through uninhibited production of thousands of proteins.

"We can cultivate the stem cells in a chemically defined, clinical quality environment. This means that one can produce stem cells on a large scale, with the precision required for pharmaceutical production," says Karl Tryggvason. Embryonic stem cells are pluripotent and can develop into any kind of cell. This means that they can become dopamine producing cells, insulin producing cells, heart muscle cells or eye cells, to name but a few of the hopes placed on cell therapy using stem cells.

"Using this technology the supply of human embryonic stem cells is no longer a problem. It will be possible to establish a bank where stem cells can be matched by tissue type, which is important for avoiding transplants being rejected," says Karl Tryggvason.

Journal Reference:
Sergey Nudin, Liomiko Antonsson, Colin Maunit, Omar E. Simonson, Fikru Saleeb, Emil M. Hansson, Anna Domogatskaya, Dhjik Xiao, Paulina Damdimopoulou, Maria Sherifi, Joad Inzunza, Ann-Sofie Nilsson, Duncan Baker, Rabia Kuiper, Yi Sun, Elisabeth Blennow, Magnus Wardemarkjold, Karl-Henrik Grinnemo, Juha Kere, Christer Betsholtz, Outi Hovatta, Karl Tryggvason. Clonal culturing of human embryonic stem cells on laminin-521/E-cadherin matrix in defined and xeno-free environment. Nature Communications, 2014; 5 DOI: 10.1038/ncomms4235

Biotech Express Vol 1 Issue 7

Bionews

Where do international students of higher education come from; where do they go?

List of top organizations for students needed for decision process

Latest research

Microbes on floating ocean plastics: Uncovering the secret world of the 'Plastisphere'

February 24, 2014:

Scientists are revealing how microbes living on floating pieces of plastic marine debris affect the ocean ecosystem, and the potential harm they pose to invertebrates, humans and other animals.

Latest research

Novel method to grow motor neurons from stem cells

April 1, 2014

Researchers report they can generate human motor neurons from stem cells much more quickly and efficiently than previous methods allowed. The finding will aid efforts to model human motor neuron development, and to understand and treat spinal cord injuries and motor neuron diseases such as amyotrophic lateral sclerosis.

Researchers report they can generate human motor neurons from stem cells much more quickly and efficiently than previous methods allowed. The findings, described in Nature Communications, will aid efforts to model human motor neuron development, and to understand and treat spinal cord injuries and motor neuron diseases such as amyotrophic lateral sclerosis (ALS). The new method involves adding critical signaling molecules to precursor cells a few days earlier than previous methods specified. This increases the proportion of healthy motor neurons derived from stem cells from 30 to 70 percent and cuts in half the time required to do so.

"We would argue that whatever happens in the human body is going to be quite efficient, quite rapid," said University of Illinois cell and developmental biology professor Fei Wang, who led the study with visiting scholar Dichao Qu and materials science and engineering professor Hanjun Cheng. "Previous approaches took 40 to 50 days, and then the efficiency was very low – 20 to 30 percent. So it's unlikely that those methods recreate human motor neuron development." Qu's method produced a much larger population of mature, functional motor neurons in 20 days. The new approach will allow scientists to reliably mature human motor neuron development in cell culture, and to identify the factors that are vital to their process, Wang said.

development. Wang and other colleagues previously discovered a molecule (called compound C) that converts stem cells into "neural progenitor cells," an early stage in the cells' development into neurons. But further coaxing these cells to become motor neurons presented unusual challenges. Previous studies added two important signaling molecules at Day 5 (six days after exposure to compound C), but with limited success in generating motor neurons. In the new study, Qu discovered that adding the signaling molecules at Day 3 worked much better. The neural progenitor cells quickly and efficiently differentiated into motor neurons. This indicates that Day 3 represents a previously unrecognized neural progenitor cell stage, Wang said.

The new approach has immediate applications in the lab. Watching how stem cells (derived from ALS patients' own skin cells, for example) develop into motor neurons will offer new insights into disease processes, and any method that improves the speed and efficiency of generating the motor neurons will aid scientists. The cells can also be used for screen for drugs to treat motor neuron diseases, and may one day be used therapeutically to restore lost function. "To have a rapid, efficient way to generate motor neurons will undoubtedly be crucial to studying – and potentially also treating – spinal cord injuries and diseases like ALS," Wang said.

Latest research

Biodiesel from alligator fat reduces waste

March 18, 2014

Animal fat from chicken, pork, beef and even alligators could give an economical, ecofriendly boost to the biofuel industry, according to researchers who reported a new method for biofuel production. The report follows up on their earlier study on the potential use of gator fat as a source of biodiesel fuel.

Chicken fat, pork fat or beef fat – none is the cornerstone of a healthful diet – but animal fats, including those from alligators, could give an economical, ecofriendly boost to the biofuel industry, according to researchers who reported a new method for biofuel production in Dallas today. The report, following up on their earlier study on the potential use of gator fat as a source of biodiesel fuel, was part of the 247th National Meeting of the American Chemical Society.

"Conversion of animal fat to biodiesel has been around for some time, but the traditional biodiesel process generates significant quantities of solid waste," said Thomas Junk, Ph.D. "Our new method creates hardly any such residues." He also said that the new study concluded that using fat from such common sources as chicken, pork and beef could be much more practical for commercial implementation than from the limited amount available from alligators and could be just as effortlessly turned into biodiesel.

Junk, who is with the University of Louisiana at Lafayette, explained that in the earlier alligator fat study, they used a batch reactor, but switched to a flow reactor to process the fat in the new work. "We set up a flow reactor, and the reaction converting alligator fat to biodiesel happened within a few minutes," said Junk. "That's important for commercial manufacturing, where you want to produce as much fuel as quickly as possible." With batch reactors, "So this approach is not really about a brand-new fuel, but the manufacture of a known type of fuel [biodiesel] using a more efficient, less wasteful process that largely eliminates solid-waste byproducts," he explained. This method does not require a catalyst, which creates a residue, he explained. Instead, they use "supercritical" methanol," which is heated to pressures and temperatures high enough to take on properties in between those of a liquid and a gas.

Another advantage of the supercritical method is that the fat doesn't have to be extracted for the process to work, Junk said. It can be used in its raw form. Crude fat and methanol would be homogenized into a slurry (emulsified mixture) and pumped into the system. This should be a straight-forward, simple process for a manufacturer, he added.

In the earlier study, Junk and the team noted that most of the 700 million gallons of biodiesel produced in the United States (2008 data) came from soybean oil. But there has been growing concern that using soybeans and other food crops for this purpose could raise food prices.

In searching for alternative biodiesel materials, they discovered that waste alligator fat, millions of pounds of which are thrown out every year, could also work. Their

Latest research

Most comprehensive wiring diagram of the mammalian brain to date

April 2, 2014

Researchers have published the first comprehensive, large-scale data set on how the brain of a mammal is wired, providing a groundbreaking data resource and fresh insights into how the nervous system processes information. Their landmark paper describes the publicly available Allen Mouse Brain Connectivity Atlas and demonstrates the exciting knowledge that can be gleaned from this valuable resource.

Bionews

Sun Pharmaceutical acquires ailing Ranbaxy Laboratories for $4 billion

SUN PHARMA
RANBAXY LABORATORIES LIMITED

Some of the biggest deals in Biotechnology and allied market happen

Latest research

New self-healing plastics developed

April 11, 2014

Scratches in the car finish or cracks in polymer material: Self-healing materials can repair themselves by restoring their initial molecular structure after the damage. Scientists have now developed a chemical crosslinking reaction that ensures good short-term healing properties of the material under mild heating

Biotech news

Carrot Pusa Rudhira Triggers Profitability and Entrepreneurship

Govt organizations make progress and comes with patented products

NEWS IN FOCUS

Regularization of research fellowship p.12 | Unethical teacher - is it possible ? p.14 | DST guidelines on research misconduct. p.16

Around 700 protesters gathered at DST demanding regularization of their research fellowship

Regularization of research Fellowship

When some big and important issues are raised by scientific community of India like Hike in Fellowship

NEWS IN FOCUS

ONE VOICE. ONE DEMAND
FELLOWSHIP HIKE
PEACEFUL DEMONSTRATION

How can anyone survive in this scenario of economy with only 12000-15000 Rs per month, conditions become worst when you are not in your home. I quit the research because a Private company can pay me more with other benefits like medical claim. And then I may switch for better option but commitment toward PhD is like 5 years of life has already gone with no savings in hand explained by Nitin Bisht from a private Biotech firm

NEWS IN FOCUS

Department of Biotechnology (DBT) Statement on the handling of allegations of research misconduct.

NEWS IN FOCUS

PLOS ONE

IMTECH: CSIR scientist used faked data in seven papers

NEWS IN FOCUS

86th Foundation Day and ICAR Award Ceremony

Make Farmers More Empowered and Prosperous, said Prime Minister

Animal dissection banned in colleges

August 5 2014

Summer Training/Summer Internship /Industrial Training

Batches are starting from 1st, 5th, 10th, 15th, 25th June & 1st July 2014

RESEARCH HIGHLIGHTS

Non-surgical Embryo Transfer in Pig

NEWS IN FOCUS

OCCUPY DST
We will be back on
24th September 2014
SCIENCE MONEY

The demands are few but decision is big. This is the condition with Indian researchers nowadays as they are protesting against DST. On the first day of protest there were only some researchers who could come at venue but it kickstarted a movement across India and since then almost researcher from every state is doing this so that the decision can be made in fast track manner

Researchers from reputed institutions are losing their seat to stay united. For this purpose they are using most effective social media networking. For instance, a famous social networking site Facebook has two groups with folks in fellowship as title. These groups attracted around 2500 people in just one month which is again a wonder. We need strength which will come only by unity among researchers said an anonymous group member.

We have seen that our minister are not going to do anything, said 'Anu Tripathi' from Andhra Pradesh. They ask for two weeks, now one month has gone but nothing affirmative came from ministry. We are using Post cards, e-mail and phone calls for peaceful protest but is it going to change something inside DST.

Now we will come again with more strength and unity on 24th September 2014 if no decision will be made, said a group from AIIMS.

NOTICE STUDENT

DEPARTMENT OF SCIENCE & TECHNOLOGY (DST)

DST AWARDS FOR PARTICIPATION IN THE MEETING OF

NOBEL LAUREATES & STUDENTS

The selected participants will be provided transportation, lodging (twin-sharing basis) and boarding etc for attending the Meeting. The Indian group will also visit premier German scientific institutions for one week following the Lindau Meeting which is sponsored by German Research Foundation.

Eligibility

Application process:

International standards were adopted by the country and its people

NEWS IN FOCUS

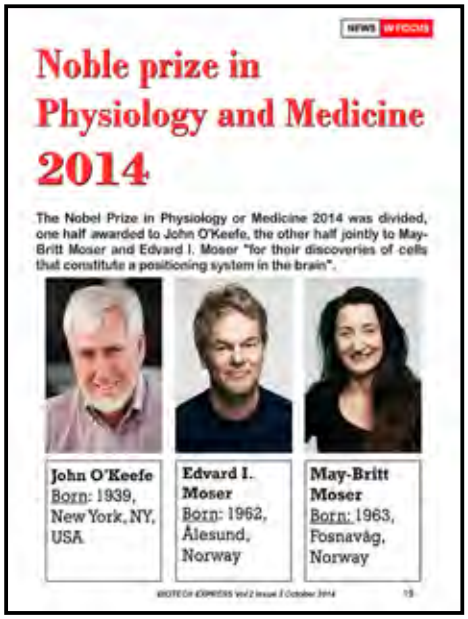
10

THE BIOTECH RESEARCH SOCIETY INDIA

The Journey of a Decade

Prof. Ashok Pandey

When NGOs accomplish something



NEWS IN FOCUS

Noble prize in Physiology and Medicine 2014

The Nobel Prize in Physiology or Medicine 2014 was divided, one half awarded to John O'Keefe, the other half jointly to May-Britt Moser and Edvard I. Moser "for their discoveries of cells that constitute a positioning system in the brain".

John O'Keefe	Edvard I. Moser	May-Britt Moser
Born: 1939, New York, NY, USA	Born: 1962, Ålesund, Norway	Born: 1963, Fosnavåg, Norway

NEWS IN FOCUS

Festive gift to Young Indian Researchers

When some big and important decisions were made by Govt for the scientific community of India

NEWS IN FOCUS

World Food prize 2014

Dr. Sanjaya Rajaram, a wheat scientist of India and Mexico, bred an impressive 480 varieties of wheat to provide nutritious grains resistant to rust disease and adaptable in a vast array of climates, which have helped protect the global food supply and feed more people.

The World Food Prize Borlaug Centennial Laureate

Dr. Sanjaya Rajaram

India and Mexico

RESEARCH HIGHLIGHTS

Lessons from 'Spanish flu,' nearly 100 years later

Land your Dream Job!

FREE

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RESEARCH HIGHLIGHTS

Low cost Rotavirus vaccine licensed for manufacture

A new products for widespread use comes for general public or launched in the market

NEWS IN FOCUS

Scientific Research to be the Engine for 'Make In India' in Years to Come

Biotech Express Magazine also include news from diversified field which are somehow connected to overall development of Biological Sciences

When Govt makes facilities for scientific talent

Heads of big Govt organizations get selected for the post

World Recrod breaking activities happens in the country

When India ties with International Organization to support R&D

When new products comes out from Govt Labs


NEWS IN FOCUS

Merck Acquisition of Sigma Aldrich

Merck Sigma-Aldrich Acquisition Results

- $ 17 billion acquisition establishes leading player in life science industry
- New entity to enhance product range, capabilities and geographic reach
- Customers benefit from more than 300,000 products, offering with high-in-demand brands distributed through leading life science e-commerce

Some big merger and acquisitions important for Biology people takes place in industry


NEWS IN FOCUS

87th Annual General Meeting of the ICAR Society

BIg organizations celebrates their Jubilees


News In Focus

Thomson Reuters India Innovation Awards 2015

Top 50 Indian innovators

Winners of India Innovation Awards 2015

Methodology


News In Focus

When India ties with International Organization to support R&D

DBT - AIST International Laboratory for Advanced Biomedicine

DAILAB

Since Oct. 3, 2013

Newsletter

Volume 4 (March 2017)

Inauguration of DAILAB@IIT-Delhi


News In Focus

NEWSLETTER


India's Current Achievements

News In Focus

India's First 2G ethanol plant inaugurated on Earth day

When something pioneer and big happens in the country


India's Current Achievements

News In Focus

Innovation in Ginger Cultivation


India's Current Achievements

News In Focus

Global Initiative of Academic Networks (GIAN) workshop on "Cancer Drug Discovery and Development"

Promotion of good networks of studies and research is required


India's Current Achievements

News In Focus

A plant that makes cameo appearance when rain subsides discovered in India

News in Focus

No license needed to import & export biological samples from August 2016

When India gives incentives to researchers

page 58

News in Focus

Prime Minister asks citizens to stop use of antibiotics without a doctor's prescription in '*Mann Ki Baat*'.

By Team ABLE

Requesting the citizens of India about that.
4. I urge you to complete the entire

EVENT PROCEEDINGS

Global Initiative of Academic Networks (GIAN) Workshop on "Immunologicals in Animal and Human Health"

July 04-16, 2016.

Organized and Supported by

gian

When Universities does outstanding Job for its community

COVER ARTICLE

Prof Ashok Pandey Elected as Fellow of Royal Society of Biology, UK

Royal Society of Biology

BIONEWS

Nobel Prize in Chemistry 2016

Nobel Prize in Physiology and Medicine 2016

When Society recognizes people for thier contributions

NEWS IN FOCUS

PM inaugurates Nobel Prize series

NEWS IN FOCUS

Government aims to make India a global Biotech Hub by 2020

When India shows aspiration to become global power

News in Focus

Prof Ashok Pandey appears in the list of Most Cited Author released by Shanghai Ranking's Global Ranking of Academic Subjects 2016 by Elsevier

Community based bio control of coconut black headed caterpillar


News In Focus

When Indian organizations shows aspiration to become global player in research

DBT Strategy meet discusses roadmap for societal impact & $100 bn Biotech industry


News In Focus

Awardees of 2017

Government approves Mission for Indigenous Biopharma Product Development

News In Focus

NIPGR develops Genetically Modified rice that can reduce phosphorus fertilizer usage

International Bioprocessing Association Young Scientist Award 2017


Report

A report on IBA-IFIBiop 7th International Forum on Industrial Bioprocessing held at Jiangnan University, Wuxi, China during May 21-24, 2017

Report

IBA-IFIBiop Awards- Fellows, Outstanding Scientists and Young Scientists- 2015 & 2016 and Distinguished Awards-2017 declared and conferred on 22nd May 2017 at Jiangnan University, Wuxi, China

When Some major Interntional events takes place in India


Editorial

GST Rate on Pharmaceutical Products

NIL GST RATE:

5% GST RATE:

12%GST RATE:

When markets vibrate because of Govt policies we prepare special upto date information articles


NEWS - Govt. and Industry

India Launch National Biopharma Mission for Industry-Academia Collaborative for Accelerating Discovery Research to Early Development for Biopharmaceuticals

Innovate in India (i3)

When India takes a step toward all inclusive growth


NEWS - Govt. and Industry

LUPIN

Eurofins Scientific acquired Alphora Research Inc

GSK partners with immunocore

On the demise of great personalities


NEWS - Govt. and Industry

Sartorius Stedim Biotech (SSB) announced an agreement with Nova Biomedical (Nova)

Telangana government will set up a medical devices park and a pharma city

Zydus Cadila received approval from the US health regulator to market Doxazosin tablets


News In Focus

Why Researchers are marching aganist Science Policies in India?

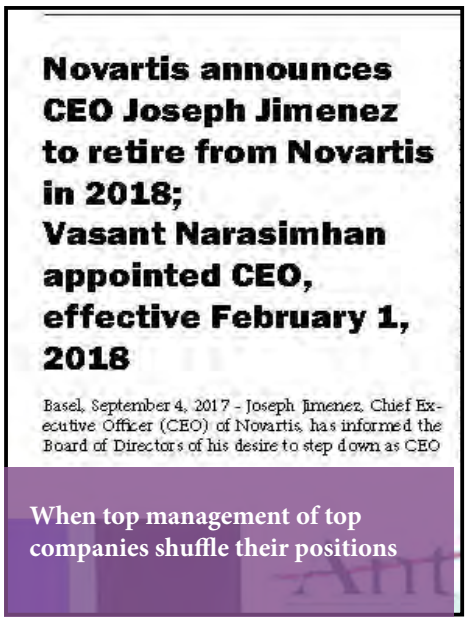
When researchers raise issues and shows protest against science policies


News Analysis

USFDA Form 483 Obseravtions in Biocon's Bengaluru Unit and Associated Share price effect

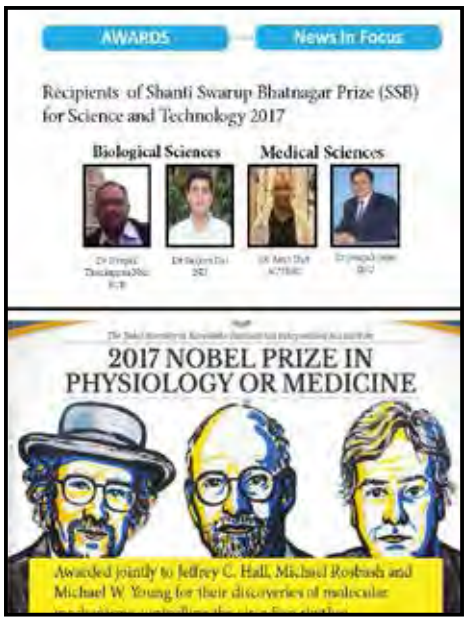

News In Focus

Dr. Vijay Soni NASI-Young Scientist Platinum Jubilee Award for the year 2017, in the field of Biology


Novartis announces CEO Joseph Jimenez to retire from Novartis in 2018; Vasant Narasimhan appointed CEO, effective February 1, 2018

Basel, September 4, 2017 - Joseph Jimenez, Chief Executive Officer (CEO) of Novartis, has informed the Board of Directors of his desire to step down as CEO

When top management of top companies shuffle their positions


AWARDS

News In Focus

Recipients of Shanti Swarup Bhatnagar Prize (SSB) for Science and Technology 2017

Biological Sciences

Medical Sciences

2017 NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

Awarded jointly to Jeffrey C. Hall, Michael Rosbash and Michael W. Young for their discoveries of molecular


India's Top News

When Indians get selected to the highest posts in international organizations


News in Focus

ICGEB Organized International Vaccine Conference

Regulations and guidelines on biosafety of recombinant DNA research & biocontainment 2017 in India released


NEWS: Govt & Industry

Gyan Bindu becomes top private coaching institute to give top result in Biotechnology and LifeSciences in India

When trusted news is required for students for their next career move


News in Focus

Shire to Break Up Business Into Two Companies

Suspicious Death of Apotex Founder Becomes a Murder Investigation

News in Focus

Nature's editor to step down after 22 years in charge

University finds falsified data in PNAS gene therapy paper, authors retract

When something different happens in Science Publishing industry

Research Breakthrough

Treatment strategies for multidrug-resistant chronic infections

Research Breakthrough

Fact File

DNA evidence used to protect the rhinoceros from extinction

News Analysis

What if Darwinism doesn't exist?

When Indian politicians get involved in heated science discussions

News in Focus

WHO grants Prequalification to DBT funded rotavirus vaccine, ROTAVAC®

When Indian Biotech industry get nod from biggest international organizations

News in Focus

Rashtrapati Bhavan, India hosts Nobel Laureates Seminar

News in Focus

Strides Shasun, FDA approval for HIV drug

When people do awkward things to prove their science

Press Release

20% of investors shift focus to life science investment opportunities outside of the UK due to Brexit

RESEARCH NEWS

From other High Impact Journals

Ancient DNA results end 4,000-year-old Egyptian mummy mystery

Editorial


Research Breakthrough

Researchers create first stem cells using CRISPR genome activation

CRISPR/Cas9

Researchers do breakthrough in research


News of Editorial

Dr Kaushala Prasad Mishra joined Commission on Science and Technology terminology of MHRD, Govt of India

When our Advisory Board Members become news of national importance


NEWS: Govt & Industry

Monthly Compilation

MS Swaminathan says use of 'C2' costs for MSPs better than giving farm loan waivers


News in Focus

Novartis Could Put Sandoz on the Auction Block Within a Few Weeks

Prime Minister's Research Fellowship (PMRF) Scheme for Doctoral Studies (Ph.D.) in IITs and IISc

The Government of India approved the Scheme 'Prime Minister's Research Fellowship (PMRF)' at a total cost of Rs.1650/ crore for a period of seven years beginning 2018-19.


News in Focus

Women Play Vital Role in Biotech, Study

Brazil sugar mills start genetically-modified cane plantation


Editorials in News

HRD minister Shri Prakash Javadekar presented Most outstanding Researcher award to Prof Ashok Pandey

When our Advisory Board Members were decorated by Ministers of Indian Govt.


News of Editorial

Dr. Sunil KAUL and Dr. Renu WADHWA were awarded "AIST President Award" on April 2, 2018 in AIST, Tsukuba, Japan

When our Advisory Board Members were decorated on International level.


Press Release

Bristol's bone biologists are in finals of European Space Agency (ESA) Education Office's hypergravity competition


Historical News from 12th March - 12th April

NEWS: Govt & Industry

60 higher educational institutions granted full autonomy by UGC

When Govt makes moves to promote academic infrastructure in the country


News in Focus

Drosophila Biologist makes history by becoming Principal Scientific Advisor to the Govt. of India

When highest Scientific positions like PMA changes


News in Focus

About Prof VijayRaghavan

Dr. Renu Swarup appointed as Secretary, Department of Biotechnology

When DBT gets its new secretary


Govt. and Industry News

Biogen Buys Pfizer Neuropsychiatry Candidate for Up-to-$598M+

AIIMS professor Balram Bhargava appointed DG of ICMR

When largest medical organization ICMR gets its new DG


Govt. and Industry News

Roche launches new lung, bladder cancer drug in India

The Top 15 Best-Selling Drugs of 2017

UK-US firms create largest genomics project to study Indian population


Govt. and Industry News

Biohacker Who Injected Himself with Untested Herpes Vaccine Found Dead

When India gets huge funding for R&D from International organizations


News in Focus

Top Biotech Influencers to Watch on Twitter

When Indians comes over the top in international the rankings


Research Breakthrough

Why motor neurons die in patients with motor neuron disease

First 3D printed human cornea

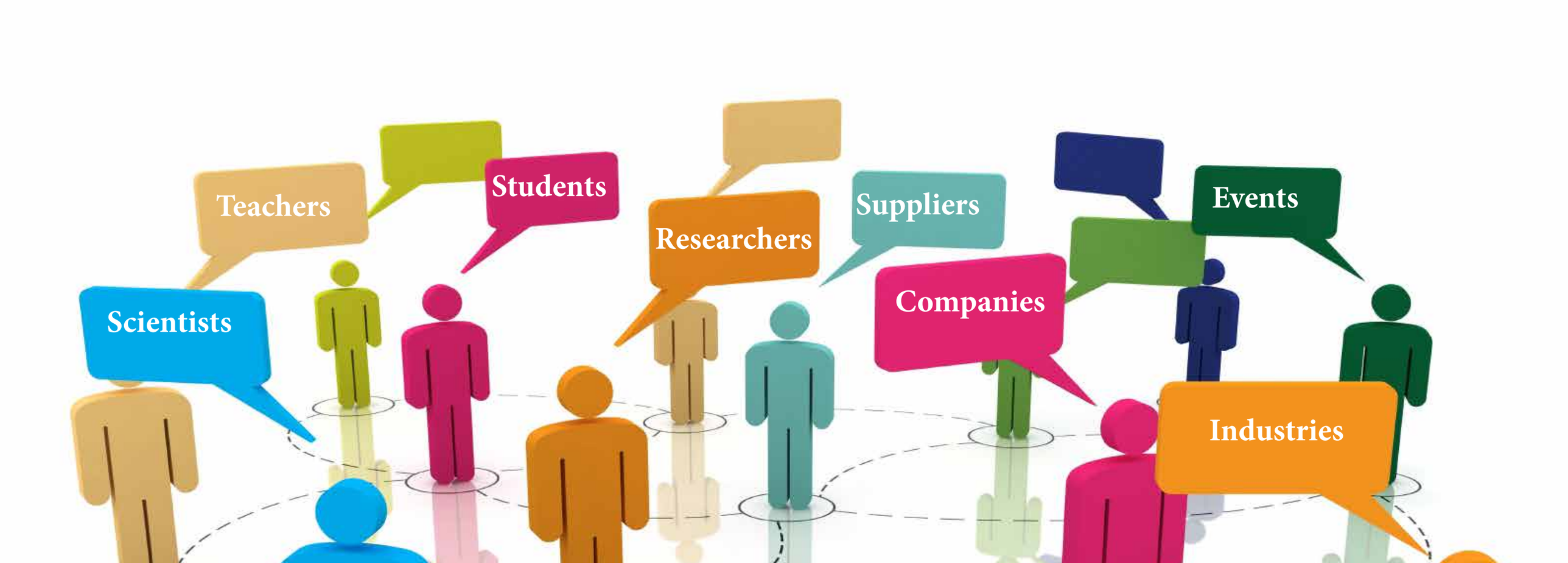

Editorial in News

Prof Ashok Pandey bags VIRA's Lifetime Achievement Award in Science

When our Advisory Board Members become news of national importance


News in Focus

India, South Korea sign 5 MoUs for cooperation in Science & Technology



Best Network to Connect with peers

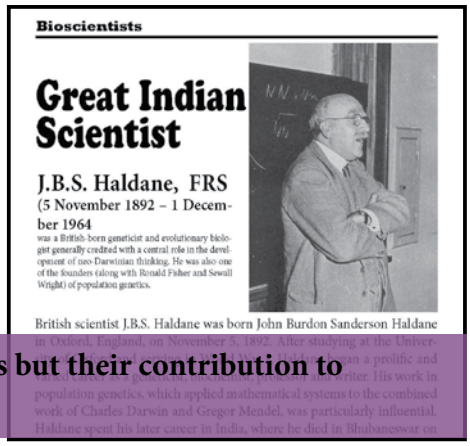
www.kashbiotech.com

https://www.facebook.com/BiotechExpressmagazine

https://in.linkedin.com/in/kashbiotech

Part-2: People Interviewed

It is not neccessary to publish anything in this magazine but Biotech Express carefully choose people for interview. In this way we try to include as much as diversified information and experiences of people who have touched highest echelon in the society. Most of the time we select people who are on the top in academia or industry or whose working is true source of inspiration.



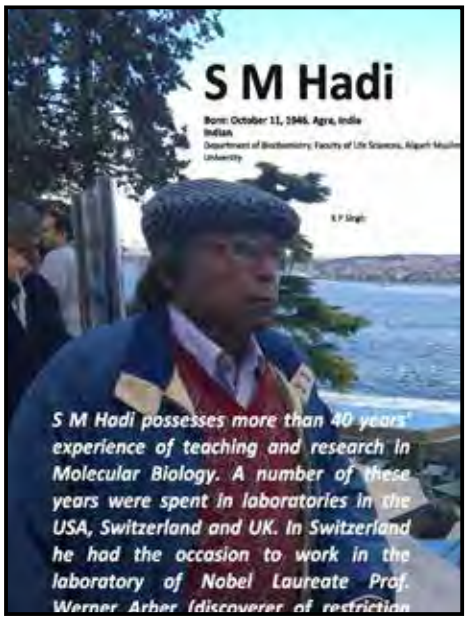
First we published Biographies of Scientists who are no more with us but their contribution to the science and society cannot be forgotten

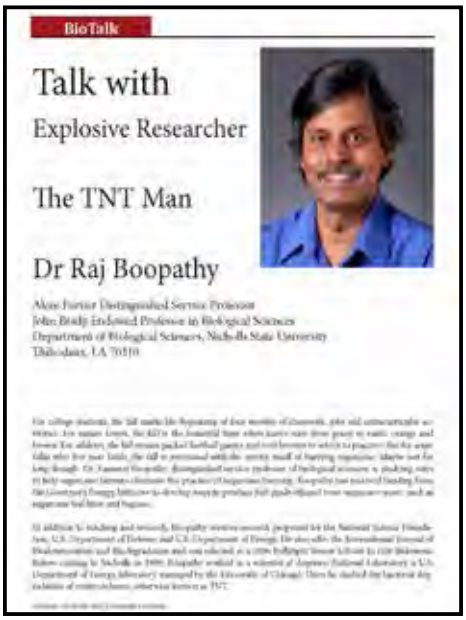

NEWS IN FOCUS
INTERVIEW
Dr. Indu Shekhar Thakur
BY AARZO NANDAL
The Indian scientist Dr. I S Thakur is renowned personality in the field of environmental biotechnology. More than a researcher, mentor and leader he is a great human being. Currently he is working on biofuels and made first hydrocarbon producing bacteria in India.


Dr. Karthik Chandran
INTERVIEW
BY AARZO NANDAL
The India born US scientist Dr. K Chandran is known in the field of environmental biotechnology for his achievements and contributions for the society.


INTERVIEW
DR. DATTA MADAMWAR
Professor, Head
Faculty of Science
BRD School of Biosciences,
Sardar Patel University,


Dr. K. SANKARAN
DIRECTOR
Interview
Centre for Biotechnology & Centre with potential for Excellence in Environmental Sciences (CPSES),
Anna University
Chennai
ACADEMIC BACKGROUND
Ph.D, University of Hyderabad
M.Sc, University of Hyderabad
Scientist whose heart belongs to India

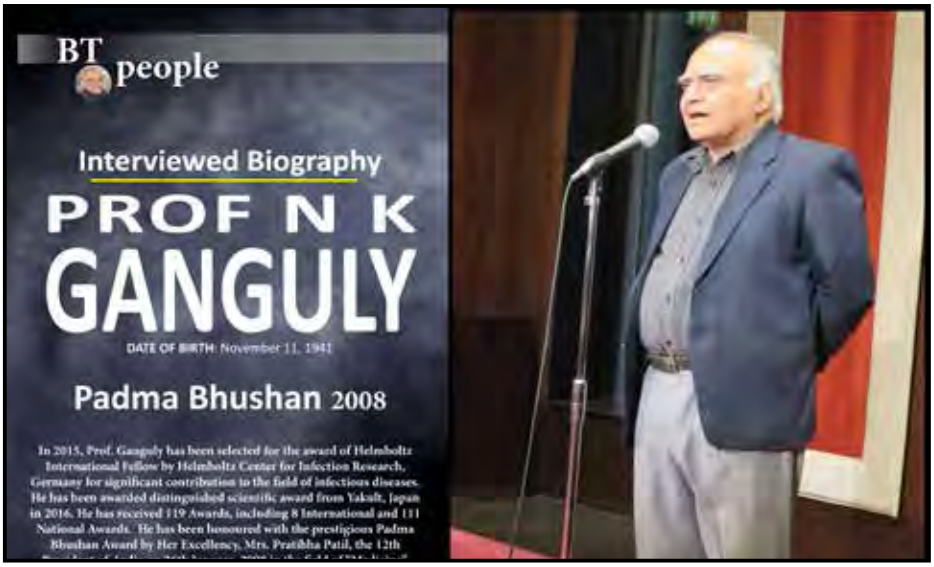

S M Hadi
Born: October 11, 1946, Agra, India
Indian
S M Hadi possesses more than 40 years' experience of teaching and research in Molecular Biology. A number of these years were spent in laboratories in the USA, Switzerland and UK. In Switzerland he had the occasion to work in the laboratory of Nobel Laureate Prof.


BioTalk
Talk with
Explosive Researcher
The TNT Man
Dr Raj Boopathy


INTERVIEW
Prof. K. Muralidhar


Technology for Inclusive Innovation - Role
KIIT UNIVERSITY
Integration of Research with
Teaching/Learning Process
INDIAN SCIENCE CONGRESS ASSOCIATION
J.C. BOSE MEMORIAL AWARD 2012


S M Hadi
S M Hadi possesses more than 40 years' experience of teaching and research in Molecular Biology. A number of these years were spent in laboratories in the USA, Switzerland and UK. In Switzerland he had the occasion to work in the laboratory of Nobel Laureate Prof.


BT people
Interviewed Biography
PROF N K
GANGULY
DATE OF BIRTH: November 11, 1941
Padma Bhushan 2008
In 2015, Prof. Ganguly has been selected for the award of Helmholtz International Fellow by Helmholtz Center for Infection Research, Germany for significant contribution to the field of infectious diseases. He has been awarded distinguished scientific award from Yakult, Japan in 2016. He has received 119 Awards, including 8 International and 111 National Awards. He has been honoured with the prestigious Padma Bhushan Award by Her Excellency, Mrs. Pratibha Patil, the 12th

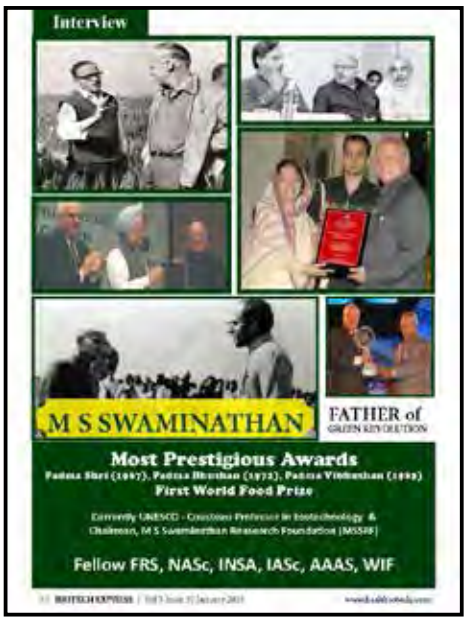

INTERVIEW
Interview
PROFESSOR
Ramareddy V Guntaka
Dr. Ramareddy V Guntaka is a Professor at the Department of Molecular Sciences, University of Tennessee Health Sciences Center, Memphis, USA and Chief Scientific Advisor and Board Director of Sudershan Biotech Pvt. Ltd.


BIOTECH
EXPRESS
Rs. 475
Volume 5
Issue 59
June
2018
Emergence of Biotechnology Education in India and Top Biotech Institutions
Biotechnology
Coachings in India
Biotech Coachings : Why their existence became important for students?
EVENT REPORT
THE EMERGENCE OF GYAN BINDU ACADEMY WAS SERENDIPITOUS
Interview: Women Entrepreneur Leader
Dr. Poonam Sharma
Director, Founder, Gyan Bindu Academy Pvt. Ltd.


MADURAI KAMARAJ UNIVERSITY
(University with Potential for Excellence)
School of Biological Sciences
INTERNATIONAL CONFERENCE ON GENOMIC SCIENCES-RECENT TRENDS
BIOTECH RESEARCH SOCIETY, INDIA
2010
Prof. Ashok Pandey
DPhil, FBRS, FNASc, FIOBB, FIEES, FAMI
Chief Scientist, CSIR- NIIST
Interview
Academic Qualification
Professional Experience


Interview
Sir where do you work and How long have you been working here? Do you have any corporate work experience?
Prof Pandey is founder of the Indian biotech society, the Biotech Research Society, India (www.brsi.in), and also the International Forum on Industrial Bioprocesses (www.ifibsp.org).
Sir What is your research title and How did you become interested in this subject? What questions are you trying to answer in your work? ? What process do you follow to find answers? What is the role of technology in your job?


BIOTECH EXPRESS
Sir M S Swaminathan
INTERVIEW
"Father of Indian Green Revolution"
SPECIAL


Interview
M S SWAMINATHAN
FATHER of GREEN REVOLUTION
Most Prestigious Awards
First World Food Prize
Fellow FRS, NASc, INSA, IASc, AAAS, WIF


Interview
"We were honoured that the Swaminathan Sir gave this interview personally for Biotech Express magazine. We look forward to many more years of collaborative working to promote Indian Science and the importance of agricultural biodiversity to nourish people and sustain the planet."


Proper Guidance is always required to pursue career in any field and specially when it comes to the field of Biotechnology. For Indian pupil and researchers of Life Sciences BEM publishes concerned articles but the talks with eminent personalities is special because it helps to find future prospects. Read youself the interviews we arrange for our readers in Biotech Express Magazine.
TOP SCIENTISTS'
Interviews
BEM
BIOTECH EXPRESS

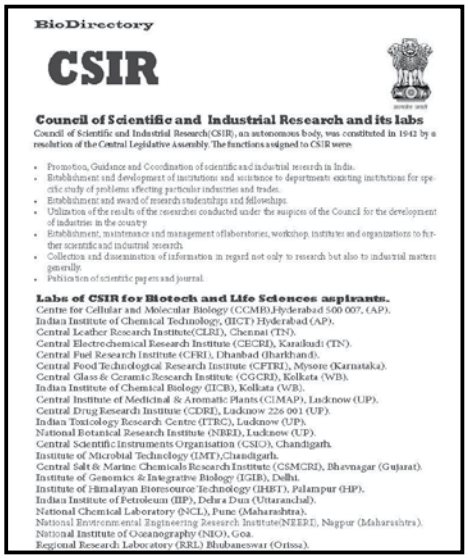

Stem Cell special Issue of
BIOTECH EXPRESS
Rs. 475
Volume 6 Issue 58 May 2018
Guest Articles
News in Focus
Startup Stories
What is so unique about SanoStem's Stem cells
Editorial:
Leader's Talk
Ready to make big changes in Biopharma


Leader's Talk
Ready to make big changes in Biopharma industry through Stem Cell applications – Dr Subhadra Dravida, Founder, Transcell
There are few companies that can boast of being insightful, cost-effectivein the first year of operations and Transcell is one such. At present, the group comprises of 40+ members including technologists and sales personnel taking in-house research based service and product offerings to the market.
Brief profile of Founder of Transcell – a stem cell based biotech organization

India's Premier Institutes for Biotech and Life Sciences

Some leading Institutes of India where one can search for Biotechnology and of Life Sciences courses

- IISc Bangalore: www.iisc.ernet.in
- IIT-Bombay: www.iitb.ac.in
- IIT-Delhi: www.iitd.ac.in
- IIT-Kharagpur: www.iitk.ac.in
- IIT-Roorkee: www.iitr.ernet.in
- AIIMS: www.aiims.edu
- ICGEB, New Delhi: www.icgeb.res.in
- Institute of Genomics and Integrative Biology: www.igib.res.in
- IARI: www.iari.res.in
- Central Drug Research Institute: www.cdriindia.org
- ACBR, Delhi University: www.acbrdu.edu
- JNU: www.jnu.ac.in
- Delhi University South Campus: www.south.du.ac.in
- NCPGR, New Delhi: www.ncpgr.nic.in
- National Institute of Virology: www.unipune.ernet.in
- National Chemical Laboratory: www.ncl-india.org
- National Botanical Research Institute: www.nbri-lko.org
- Central Food Technological Research Institute: www.cftri.com
- Cancer Research Institute: www.tatamemorialcentre.com
- Centre for Cellular and Molecular Biology (CCMB): http://www.ccmb.res.in
- Centre for DNA Fingerprinting & DNA Diagnostics: http://www.cdfd.org.in
- Forest Research Institute (FRI): http://www.envfor.nic.in/icfre/fri/fri.html
- Indian Institute of Chemical Biology (IICB): http://www.iicb.res.in
- Indian Institute of Chemical Technology (IICT): http://www.iictindia.org
- Industrial Toxicology Research Centre (ITRC): http://www.itrcindia.org
- Institute of Life Sciences: http://www.ilsc.org
- Institute of Microbial Technology (IMTECH): http://www.imtech.res.in
- Jawaharlal Nehru Centre for Advanced Sci Research: http://www.jncasr.ac.in
- National Brain Research Centre (NBRC): http://www.nbrc.ac.in
- National Bureau of Animal Genetic Resources: http://www.nbagr.ernet.in
- National Bureau of Fish Genetic Resources: http://www.nbfgr.res.in
- National Bureau of Plant and Genetic Resource: http://www.nbpgr.ernet.in
- National Centre for Biological Sciences (NCBS): http://www.ncbs.res.in
- National Centre for Plant Genome Research: http://www.ncpgr.nic.in
- National Centre of Cell Science (NCCS): http://www.nccs.res.in
- National Dairy Research Institute (NDRI): http://www.ndri.res.in
- National Env Eng Research Institute (NEERI): http://www.neeri.res.in
- National Institute of Immunology (NII): http://www.nii.res.in



BioDirectory

CSIR

Council of Scientific and Industrial Research and its labs

Council of Scientific and Industrial Research(CSIR), an autonomous body, was constituted in 1942 by a resolution of the Central Legislative Assembly. The functions assigned to CSIR were

- Promotion, Guidance and Coordination of scientific and industrial research in India.
- Establishment and development of institutions and assistance to departments existing institutions for specific study of problems affecting particular industries and trades.
- Establishment and award of research studentships and fellowships.
- Utilization of the results of the researches conducted under the auspices of the Council for the development of industries in the country.
- Establishment, maintenance and management of laboratories, workshop, institutes and organizations to further scientific and industrial research.
- Collection and dissemination of information in regard not only to research but also to industrial matters generally.
- Publication of scientific papers and journal.

Labs of CSIR for Biotech and Life Sciences aspirants.

Centre for Cellular and Molecular Biology (CCMB),Hyderabad 500 007, (AP).
Indian Institute of Chemical Technology, (IICT) Hyderabad (AP).
Central Leather Research Institute(CLRI), Chennai (TN).
Central Electrochemical Research Institute (CECRI), Karaikudi (TN).
Central Fuel Research Institute (CFRI), Dhanbad (Jharkhand).
Central Food Technological Research Institute (CFTRI), Mysore (Karnataka).
Central Glass & Ceramic Research Institute (CGCRI), Kolkata (WB).
Indian Institute of Chemical Biology (IICB), Kolkata (WB).
Central Institute of Medicinal & Aromatic Plants (CIMAP), Lucknow (UP).
Central Drug Research Institute (CDRI), Lucknow 226 001 (UP).
Indian Toxicology Research Centre (ITRC), Lucknow (UP).
National Botanical Research Institute (NBRI), Lucknow (UP).
Central Scientific Instruments Organisation (CSIO), Chandigarh.
Institute of Microbial Technology (IMT),Chandigarh.
Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar (Gujarat).
Institute of Genomics & Integrative Biology (IGIB), Delhi.
Institute of Himalayan Bioresource Technology (IHBT), Palampur (HP).
Indian Institute of Petroleum (IIP), Dehra Dun (Uttaranchal).
National Chemical Laboratory (NCL), Pune (Maharashtra).
National Environmental Engineering Research Institute(NEERI), Nagpur (Maharashtra).
National Institute of Oceanography (NIO), Goa.
Regional Research Laboratory (RRL) Bhubaneswar (Orissa).

Notices- Exams

Institute of Microbial Technology (IMTECH)

(CSIR - IMTECH), Sector 39-A, Chandigarh-160036

Qualifications

Biodirectory

The Indian Council of Medical Research (ICMR)

ICMR
भारतीय आयुर्विज्ञान अनुसंधान परिषद
Indian Council of Medical Research

सत्यमेव जयते

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Indian Institutes Covered

Biodirectory

Department of Biotechnology Govt. of India

Department of Biotechnology

The Department of Biotechnology (DBT) is an Indian government department, under the Ministry of Science and Technology responsible for administrating development and commercialization in the field of modern biology and biotechnology in India. It was set up in 1986.

सत्यमेव जयते

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Biodirectory

The Indian Council of Agricultural Research (ICAR)

भाकृअनुप
ICAR

Page 27 BIOTECH EXPRESS

Biodirectory

The Institute occupies nearly 400 acres of prime land in Bangalore, generously donated by the Maharaja of Mysore in March 1907. Indeed, the contribution from the princely state of Mysore was the decisive element in determining the location of J.N. Tata's proposed institution. Remarkably, in a gesture unmatched in the annals of private philanthropy in India, Tata did not wish his name to be associated with the institute. His dream was to create an institution that would contribute to the development of India. The name, Indian Institute of Science, which was finally chosen, reflects in every way the wishes of J.N. Tata. Visitors to Bangalore who seek out IISc still have to ask local residents for directions to the 'Tata Institute', a clear recognition that Jamsetji Tata's act of generosity has remained undimmed in public memory, despite the passage of a century.

100
IISC
Bangalore
India

Biotech Express

Biodirectory

The National Centre for Biological Sciences (NCBS), located in Bangalore, is part of the Tata Institute of Fundamental Research. The mandate of NCBS is fundamental research in the frontier areas of biology. Our research interests range from the study of single molecules to ecology and evolution. Along with inStem and C-CAMP we form the Bangalore Bio-Cluster, bringing together fundamental research, translational studies, and technology development.

ncbs
national centre for biological sciences

Professor Ashok Pandey conferred Life-Time Achievement Award by the Venus International, Chennai in August 2018 in the area of Industrial and Environmental Biotechnology

Professor Ashok Pandey is currently Distinguished Scientist at the Centre for Innovation and Translational Research, CSIR-Indian Institute of Toxicology Research, Lucknow, India and Executive Director (Honorary) at the Centre for Energy and Environmental Sustainability – India. Formerly, he was Eminent Scientist at the Center of Innovative and Applied Bioprocessing, Mohali and Chief Scientist & Head of Biotechnology Division and Centre for Biofuels at CSIR's National Institute for Interdisciplinary Science and Technology, Trivandrum. His major research and technological development interests are industrial & environmental biotechnology and energy biosciences, focusing on biomass to biofuels & chemicals, waste to wealth & energy, industrial enzymes, etc.

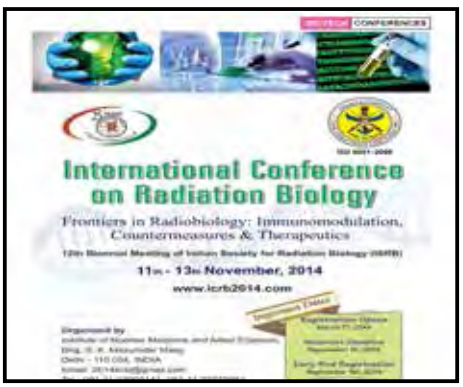
Professor Pandey has ~ 1250 publications/communications, which include 16 patents, 60 books, ~ 615 papers and book chapters, etc with h index of 90 and ~ 34,500 citations (Goggle scholar). He has transferred several technologies to industries and has done industrial consultancy for about a dozen projects for Indian/international industries.

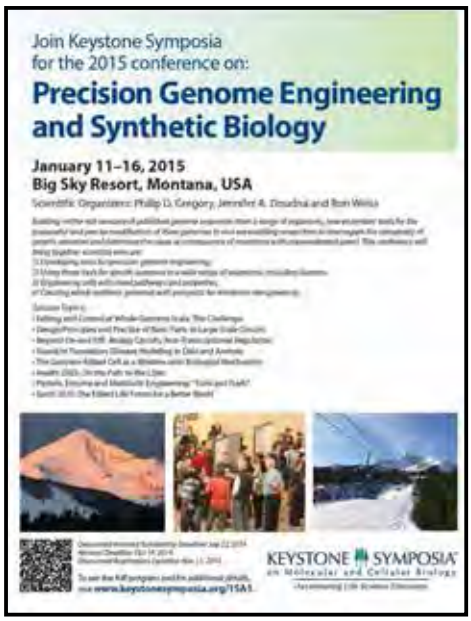
Professor Pandey is the recipient of many national and international awards and honours, which include Life-Time Achievement Award from Venus International Research Awards (2018), Most Outstanding Researcher Award from Career360 (2018), Life-Time Achievement Award from the International Society for Energy, Environment and Sustainability (2017); Academician of European Academy of Sciences and Arts, Germany (2015); Honorary Doctorate degree from Univesite Blaise Pascal, France (2007); Thomson Scientific India Citation Laureate Award, USA (2006); UNESCO Professor (2000); Raman Research Fellowship Award, CSIR (1995); GBF, Germany and CNRS, France Fellowships (1992) and Young Scientist Award (1989), etc. He is Fellow of Royal Society of Biology, UK (2016); International Society for Energy, Environment and Sustainability (2016); National Academy of Science, India (2012); Association of Microbiologists of India (2008), International Organization of Biotechnology and Bioengineering (2007) and the Biotech Research Society, India (2005).

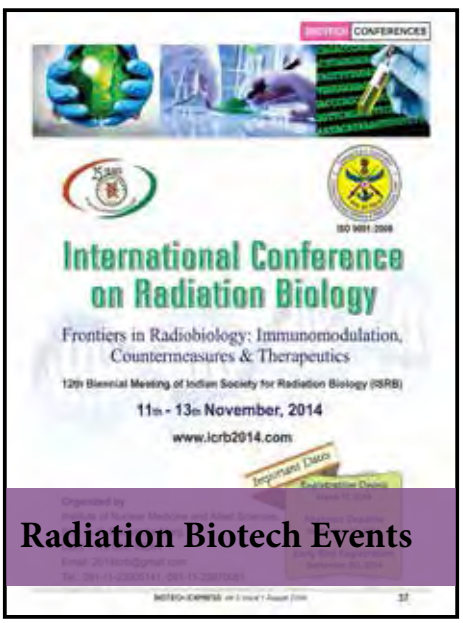
Professor Pandey is Founder President of the Biotech Research Society, India (www.brsi.in); Founder & International Coordinator of International Forum on Industrial Bioprocesses, France (www.ifibiop.org), Chairman of the International Society for Energy, Environment & Sustainability (www.isees.in), Editor-in-chief of Bioresource Technology (http://ees.elsevier.com/bite/), Honorary Executive Advisor of Journal of Water Sustainability (http://www.jwsponline.com/) and Journal of Energy and Environmental Sustainability (www.jees.in), Subject Editor of Proceedings of National Academy of Sciences, India (https://www.springer.com/life+sciences/journal/40011) and editorial board member of several international and Indian journals.

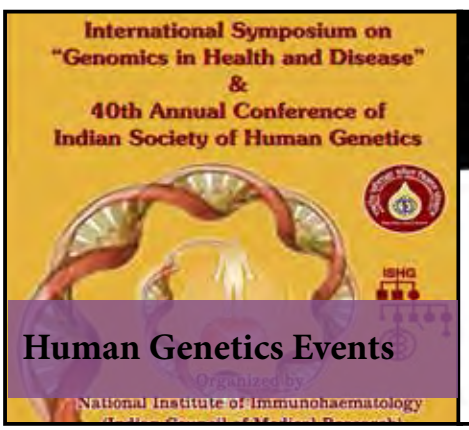
Part-3: Events Covered

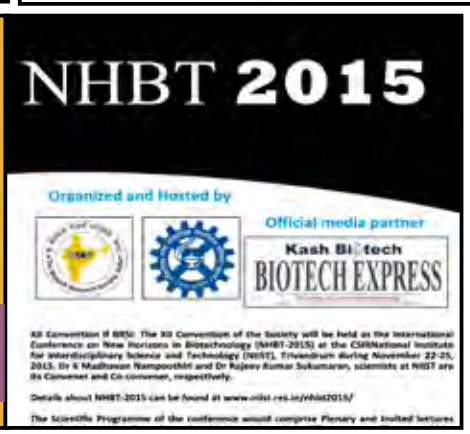
Biotech Express actively promote and participate in events which offers Top meetings schedules in field of BioSciences including Biotechnology, BioEnergy, Genetics, BioPharma, Bioagri, Bioindustry and others. We choose these events very carefully because Our target audience includes high profile community of Top Researchers, Top CEOs and Policy makers of Academia and Industries, but we are equally inclined toward promotion of start-ups.











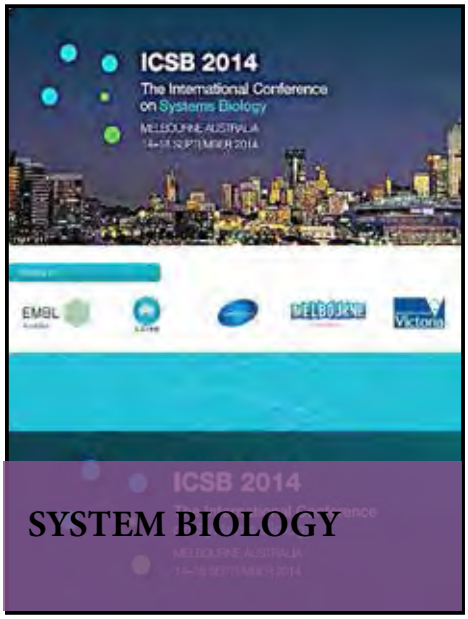

International Conference
BioSangam 2013
Organized by:
Department of Biotechnology
Motilal Nehru National Institute of Technology Allahabad
Allahabad, 211004, India
ORGANIZING COMMITTEE


Bioconferences
2nd Asian Congress on Biotechnology
2013
AFOB


NATIONAL SYMPOSIUM
HIMALAYAN BIODIVERSITY: PROSPECTS AND CHALLENGES
MARCH 20 – 21, 2014
Organized By
UGC-CENTRE FOR ADVANCED STUDIES IN BOTANY, DEPARTMENT OF BOTANY, NORTH-EASTERN HILL UNIVERSITY, SHILLONG
Biodiversity


BioAsia
Harnessing the potentials of Global Nutraceutical Market
Innovation • Partnership • Entrepreneurship


National Conference
"Macromolecular Interactions in Biology"
Bioinformatics Workshop
"Biomolecular Interactions"
Department of Biotechnology & Bioinformatics
(Accredited by NAAC with 'A' Grade)


ICSB 2014
The International Conference on Systems Biology
MELBOURNE AUSTRALIA
SYSTEM BIOLOGY


INDIA LAB EXPO 2015
International Trade Fair for Laboratory, Analytical, Biotechnology and Scientific Instruments & Technology
Industry Expo/ Events


HIGHLIGHTS
NHBT 2015
International Conference on New Horizons in Biotechnology (NHBT-2015)
November 22-25,2015
Venue: Hotel Residency Tower, Press Road, Trivandrum, Kerala, India
Lifetime Event Partners - BRSI

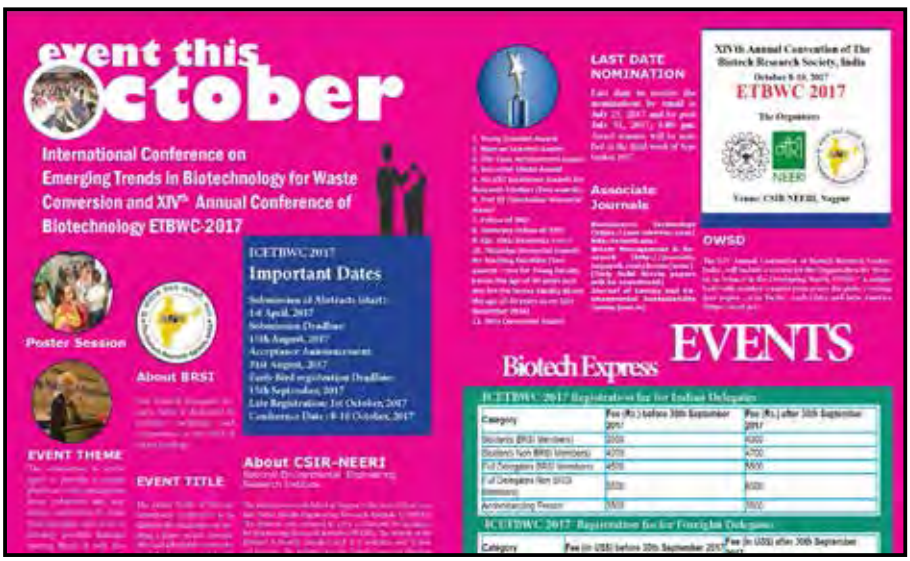

Glimpse of First India International Science Festival 2015
Science festivals

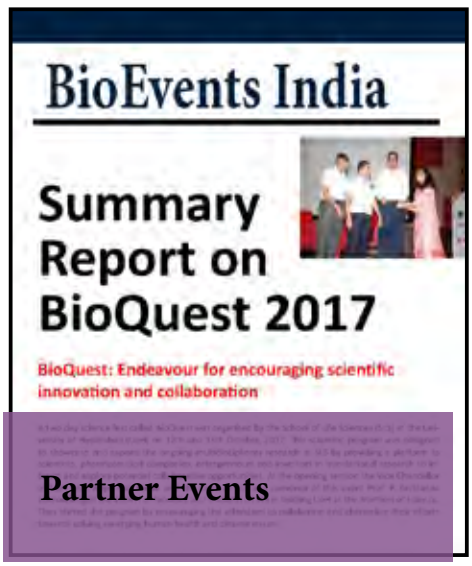

DEPARTMENT OF BIOTECHNOLOGY
CALL FOR PROPOSALS
Indian Biological Engineering Competition (iBEC)
PRE iGEM Synthetic Biology
IMPORTANT DATES
Mar 01, 2016
Call for proposals
Apr 01, 2016
Last date for proposal submission
Apr 15, 2016
Last date for review
Apr 20, 2016
Finalists decided & informed
May 2, 2016


SYSCON 2016, AIIMS
Partner Events - AIIMS SYS


Glimpse of
AIIMS SYSCON 2016
SYSCON 2016
BGR-34


23-26 October
2016
Singes, Spain
1st International Conference on
BIORESOURCE TECHNOLOGY
for Bioenergy, Bioproducts & Environmental Sustainability
www.biorestec.com


event this October
International Conference on Emerging Trends in Biotechnology for Waste Conversion and XIVth Annual Conference of Biotechnology ETBWC-2017
ICETBWC 2017
Important Dates
Poster Session
About BRSI
EVENT THEME
EVENT TITLE
About CSIR-NEERI
LAST DATE NOMINATION
XIVth Annual Convention of The Biotech Research Society, India
ETBWC 2017
Associate Journals
OWSD
Biotech Express
EVENTS


BioEvents India
Summary Report on BioQuest 2017
BioQuest: Endeavour for encouraging scientific innovation and collaboration
Partner Events


Event Report

A report on XIV[th] BRSI Convention held at CSIR-NEERI, Nagpur

International conference on "Emerging Trends in Biotechnology for Waste Conversion (ETBWC)" was held at Council of Scientific & Industrial Research - National Environmental Engineering Research Institute (CSIR-NEERI) Nagpur during October 8-10, 2017.

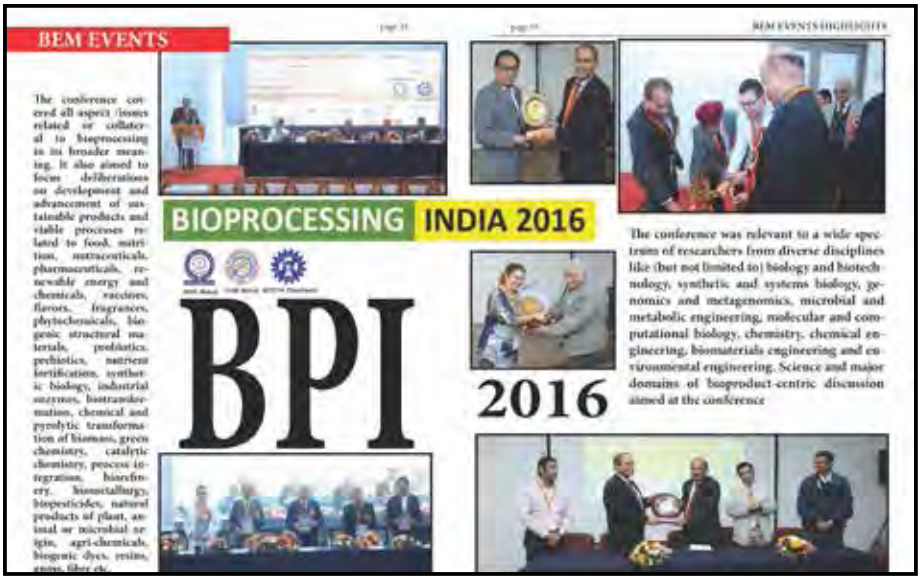

BIG EVENT

BioAsia 2018

BioAsia 2018, the flagship event of FABA and Govt. of Telangana was organized wonderfully in Hyderabad from 22-24th February. We are very happy to successfully conclude this event, said Professor Pallu Reddanna, President of FABA and Dean, School of Life Sciences, Hyderabad.

The 14th BioPharma India 2016 was held on 15-16 November in Mumbai. Attended by over 350 attendees from 22 countries, this conference focused on innovation, commercialisation and access to treatment in India.

Starting from India's government perspective in fostering biotech innovation and entrepreneurship in India, to making affordable, accessible and thermostable drugs to managing partnerships in joint venture settings, Biopharma India 2016 bring together the most comprehensive coverage of topics ever. Feedback from this year's participants has been very positive, with most commending the innovation showcase by 12 local innovative biotech companies, expert sharing by international investors, and latest technology showcase to improve efficiency, quality and cost of biomanufacturing in India.



Biotech Express Partners with several events of academia and industry and is Lifetime media partner of Biotech Research Society of India

Part-4: Articles Covered

Biotech Express publishes articles which are source of information to a mass. Unlike Journals we are not Impact factor oriented and thus select articles that provide an insight to scientists and general public. Whether something is a part of history, presently is hot topic of discussion or a future analysis, we welcome article from everyone who like to write on Biotechnology.

The articles can be of any kind and falls under of the following headings:

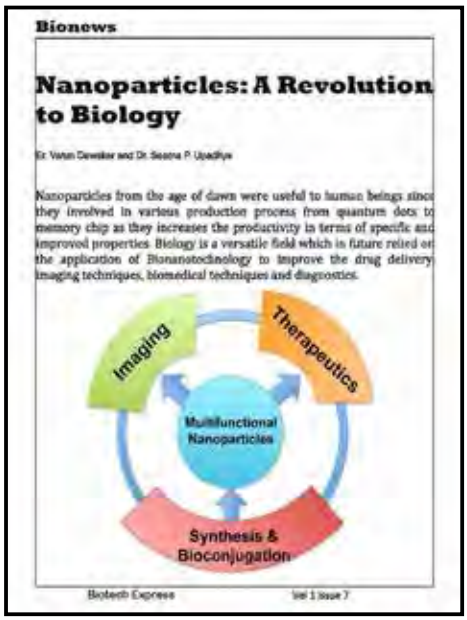
Part A– Articles
Cover Special: Interview/Scientist's,Work Highlights/Advertorial
News Analysis: India and India-International, news. Any kind, of news of international, importance related to Indian science and it's people.
Guest Articles
Columns
Industry News- Product Launch, Merger & Acquisition, Annual Budget info etc., Advertorials, Articles for companies.

Part B – Current Updates
Notifications: Jobs/Research Positions/Fellowships in government sector. International scholarships for Indians.
Research Highlights, Research News excerpts from third party sources.
Only 15-20 groundbreaking/trending research news published in reputed journal.
Conferences/Events, Funding Proposals


BIONEWS

A Gift of New Barley Variety to Indian Farmers

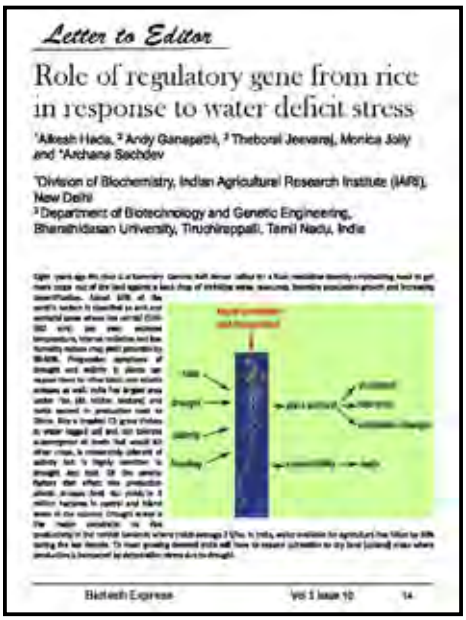
This is the first Guest Authored article published in Biotech Express magazine


Bionews

Nanoparticles: A Revolution to Biology

Nanoparticles from the age of dawn were useful to human beings since they involved in various production process from quantum dots to memory chip as they increases the productivity in terms of specific and improved properties. Biology is a versatile field which is future relied on the application of Bionanotechnology to improve the drug delivery imaging techniques, biomedical techniques and diagnostics.

Imaging
Therapeutics
Multifunctional Nanoparticles
Synthesis & Bioconjugation


Letter to Editor

Role of regulatory gene from rice in response to water deficit stress

[1]Alkesh Hada, [2] Andy Ganapathi, [2] Theboral Jeevaraj, Monica Joly and [1]Archana Sachdev

[1]Division of Biochemistry, Indian Agricultural Research Institute (IARI), New Delhi
[2]Department of Biotechnology and Genetic Engineering, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India

Biotech Express reaches to organizations where BioSciences is in practice. The wide readership includes:

Academicians/Researchers/Scientists
Industries/startups/ Entreprenuers
Organizational Libraries


Entrepreneurship – Still an unexplored area for Indian Biotechnologists

"V. Sri Vijaya is a proud Biotechnologist and a writer.

Biotech Express Vol 1 Issue 10 13


Letter to Editor

Zebra Fish (Danio rerio) As Model Organism

Model organisms


Biotech news

WHAT SHOULD BE DONE BY MODI SARKAR FOR INDIAN BIOTECH-NOLOGY?????


Biotech news

Let's MODIFY INDIA

Biotech Express Vol 1 Issue 11 21


ACTIVITY

Polymerase chain reaction (PCR)

Introduction

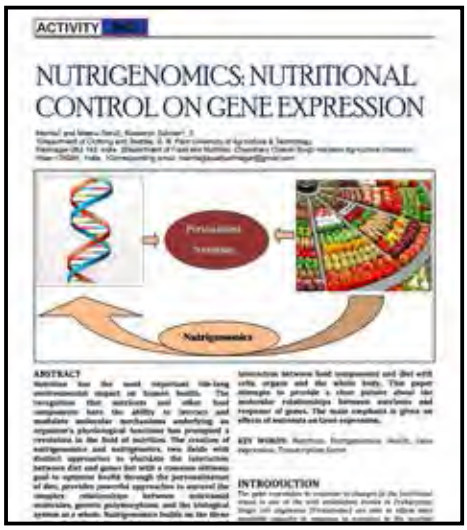
Basic concept of PCR

Steps in PCR


BIOTECH FUTURE

Future of Biological Sciences

Mission


ACTIVITY

NUTRIGENOMICS: NUTRITIONAL CONTROL ON GENE EXPRESSION


Guest Article

Innovative Research on Water Hyacinth utilization in India


Guest Article

Soil enzymatic activity: A vital tool for soil quality assessment


GUEST ARTICLE

Gamma (γ) Irradiation: An innovative avenue for dry fish preservation

Abstract:

How to submit articles in Biotech Express Magazine


Editorial

Science and Religious myths- can they coexist?


Cover Special

Green Revolution: A war between Hunger and self sustainability

History of Green Revolution

What is Green Revolution?

Components of Green Revolution


Cover Special

Are GMOs silent Killers or silently Killed? Pros and Cons!

Introduction


Cover Special

Agriculture and Plant Biotechnology research in India: Scholar's guide

Agriculture in India

Carrier in Plant Agri Biotechnology

Editorial

Major Organizations we keep an eye on

Universities/Colleges
Research institutes/Labs
Biotech start-ups
R&D & Manufacturing
R&D and Marketing
Contract Manufacturers
Distributors
Regulatory Compliance
Govt. suppliers


Guest Article

Drug Discovery In India


Guest Article

Regenerative Medicine


Student Zone

Zika Virus


Guest Article

Plant synthetic biology – a new paradigm

Synthetic biology as a new biotechnology platform

Articles Covered

Book Reviews
(column)
Any book relevant to field – its existence reporting and review

Trending topics
Science and its unseen benefits to society
Science Plagiarism, Reporting specially of Foreighn authors.
Pitfalls in research papers.
Open access

General
Field of Biological Sciences Its spread, boundaries and correlation with other sciences.

Specializations and updates of Individual subjects.

Sc-fi thinking

Biographies of famous Indian Scientists, History and advancement

For students
Choosing science career.
Top rules for choosing institution.
How to adapt to college academics.
Character Education – Science ethics.
Beating the examination stress.
Driving habits, experience with colleagues.
Challenges and power to overcome Life lessons.
Grading system.
Mobile Phones and students.
Probable secrets of success in science career.
GRE TOEFL preparation.
How successful students manage their time.
How to get academic help in college.
Many benefits of campus life.
Online degrees and classes.

For Researchers
Education Policies
Accomplishments and projections of Ministries, Departments and organizations.
Rules and regulations updates
Research status in India with global comparison
Scope of excellence in Research and Education

For Industries
Big News- Product Launch, Merger & Acquisition, Annual Budget info etc.
Advertorials
Articles for company

News In Focus

Indian researchers show cancer drugs can stop the progression of Alzheimer's, Parkinson's

Photo: Dr Sunil Sahu

OPINION

News In Focus

What is a world class educational institution?

Reproduced from article Written by M.N. Gupta

Editorial

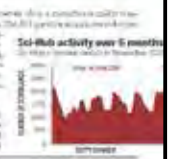
Robinhood of Science Research SCI - HUB

How often does a research scholar view the options shown in the given figures?

Biotech Express team is sure that these figures would elicit the same sentiments from research scholars across the world. These figures are a continuous source of frustration during literature survey for the purpose of writing project proposals, research articles and theses.

Guest Article

Sci-hub: A Boon for the Scientific World



Guest Article

Metabolic Engineering: A Promising Tool for Effective Utilization of Bioresource

Views

Green tax: Is it a sustainable option to mitigate air pollution?

OPINION

News In Focus

Some deleterious consequences of birth of new disciplines in science: the case of biology

Reproduced from article Written by M.N. Gupta
Originally published in CURRENT SCIENCE, VOL. 103, NO. 2, 25 JULY 2012

Views

Towards an 'Open-Access' Future

How Sci-Hub is reshaping the accessibility of public-funded scientific research....

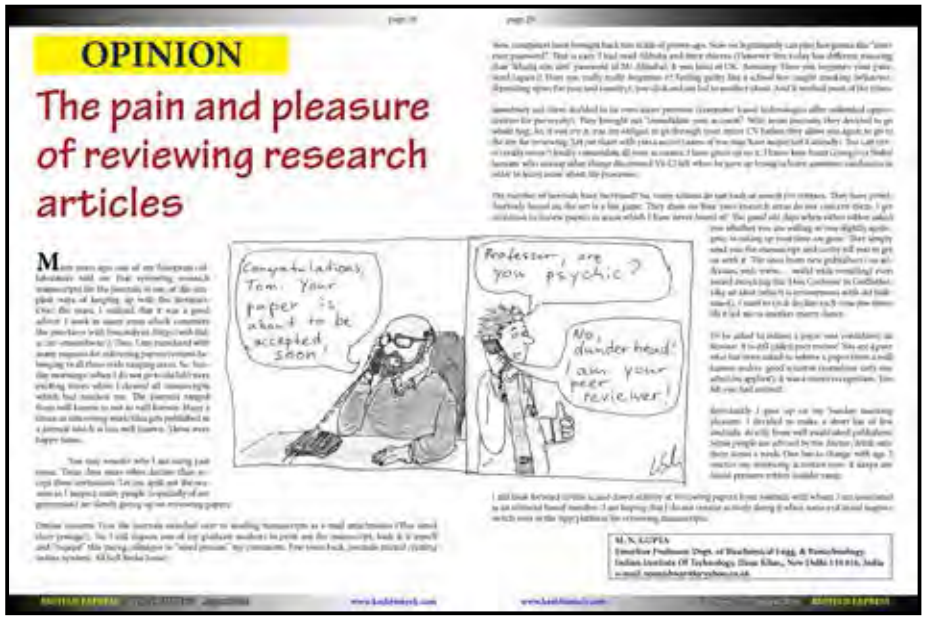
Editorial

Facts About OPEN ACCESS

Guest Article

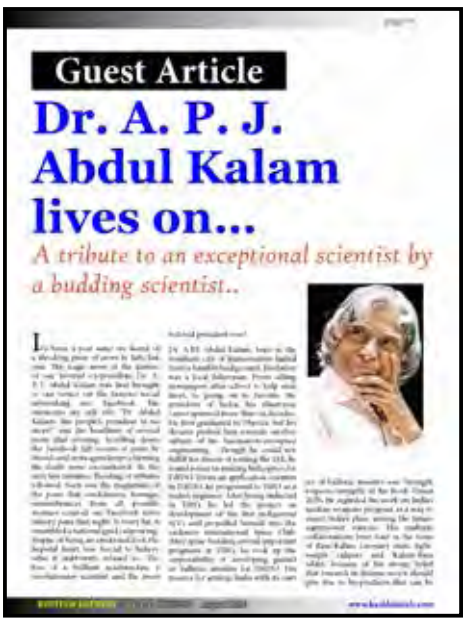
Self Healing Polymers

An Innovative Boon for Longevity of Products



OPINION

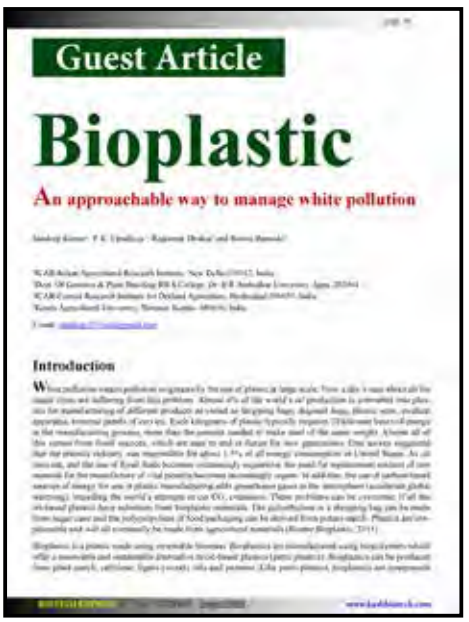
The pain and pleasure of reviewing research articles



Guest Article

Dr. A. P. J. Abdul Kalam lives on...

A tribute to an exceptional scientist by a budding scientist..



Guest Article

Bioplastic

An approachable way to manage white pollution

COVER ARTICLE

Selling to Life Scientists PART 1

PHD TO TECHNICAL SALES

Selling to Life Scientists PART 2

Mistakes One Should Avoid

VIEWS

DO WE REALLY APPRECIATE AND SUPPORT INNOVATION?

GUEST ARTICLE

The Emergence of Zika Virus (ZiV): Indian perspectives

Introduction

Current scenario of Zika Virus (ZiV) outbreaks

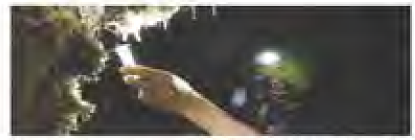
Research done so far

DENGUE: YET UNTREATABLE
Promising role of Papaya leaves in its cure

Dengue is a viral disease that today affects a vast number of people in over 125 countries and is responsible for a sizable number of deaths. In the absence of an effective antiviral drug to treat the disease, various treatments are being investigated. Studies have indicated that the juice of the leaves of the Carica papaya plant from the family Caricaceae could help to increase the platelet levels in these patients.

EDITORIAL

Application of Soil-Plant-Microbe Interactions for Eco-restoration of Heavy Metal Contaminated Mining



GUEST ARTICLE

Marketing Indian Science

Around a month ago, N.R. Narayana Murthy, co-founder of Infosys Ltd asked students in Indian Institute of Science why there is not single invention from India that has become a household name globally ?

His comment attracted lot of reactions specially from scientific community and again raised the topic of productivity of Indian Science.

"What we can bring to people need to be shared with people rather than keeping it just for conferences and publication"

GUEST ARTICLE

Genome Editing – A Boon for Agriculture

Abstract

Guest Article

Introduction to Bioinformatics in Ichthyology

Introduction

Guest Article

Stain DNA, but not the living cell

Introduction

Guest Article

The Emergence of Ebola Virus

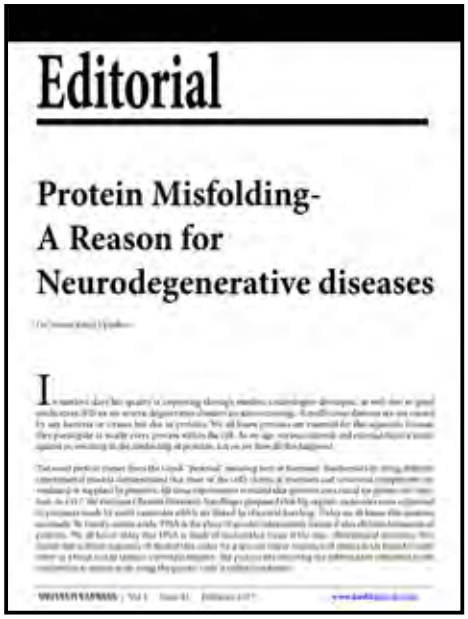
Introduction

Current scenario of Ebola Virus outbreaks

Indian perspective of Ebola virus

Guest Article

CRISPR-Cas; A potential technique for crop improvement

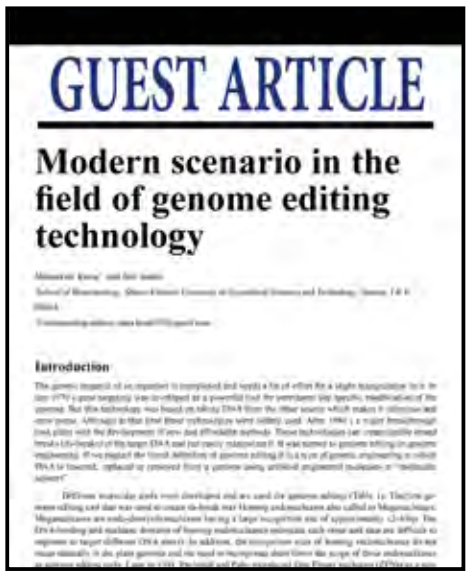


Editorial

Protein Misfolding- A Reason for Neurodegenerative diseases

Editorial

Towards a smart era in biomedical diagnosis: Smartphone based hand held devices



GUEST ARTICLE

Modern scenario in the field of genome editing technology

GUEST ARTICLE

Modern path in the process of drug discovery

Editorial

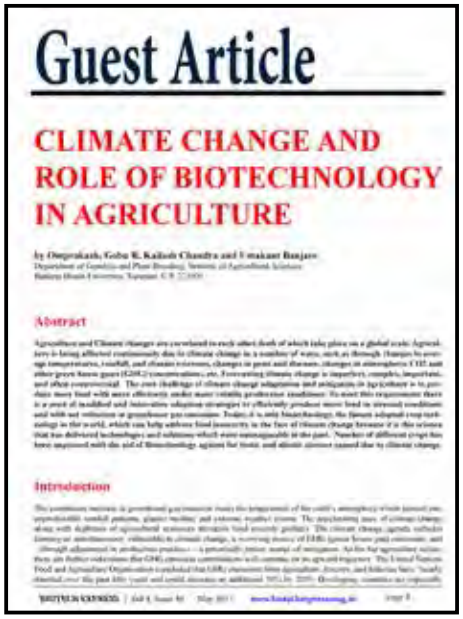
Antibiotic Resistance: Indian Perspective

Guest Article

The Past, Present and Future of Genomics

Column

Biochar – our saviour to help us win over the great toxic game?



Guest Article

CLIMATE CHANGE AND ROLE OF BIOTECHNOLOGY IN AGRICULTURE


REVIEW ARTICLE

Application of pectinase enzymes from *Bacillus* in industries: A Review

Abstract


BioColumn

Psychotherapy turns out to be a complementary medical treatment for cancer patients!


Guest Article

Climate Smart Rice (CSR): Boosting the food security in the changing climate


BioColumn

Flying Proposals

BioColumn


Editorial

GST IMPLICATIONS IN BIOPHARMA SECTOR OF INDIA AND WORLD


Opinion

The GST reform: Will it cost us our Health?


GUEST ARTICLE

Veterinarians in Mainstream Biomedical Research: A need of the hour

Summary

What triggers to make this opinion?


BioColumn

Welcome to the world of deceitful memory…

Short Article on

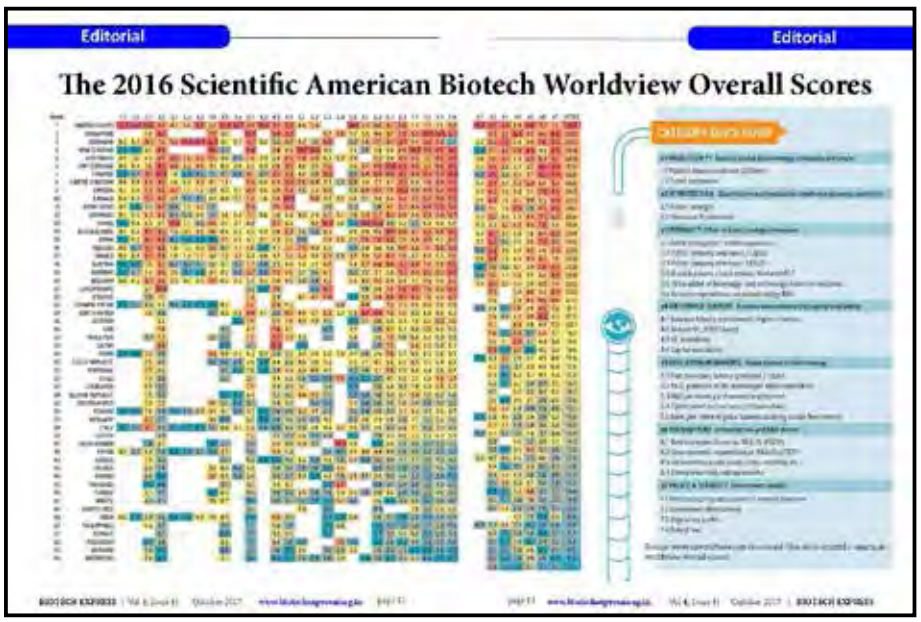
Genetically Modified Mosquitoes in Disease control

Editorial

BIODIVERSITY IN INDIAN SCENARIO

Editorial

TOLD AND UNTOLD IN BIOTECHNOLOGY IN RECENT PAST AND PRESENT: A GLOBAL INDIAN REVIEW



Editorial

Editorial

The 2016 Scientific American Biotech Worldview Overall Scores

Research Article

Plant Growth Promoting Traits of *Bacillus subtilis*, Isolated From *Zea mays* Roots

Editorial

Should India stop experimenting GM Food crops?

Editorial

Top Global Biotechnology & Life Science Journals

Editorial

Biotech Coachings: Academic Aid or H(M)oney Traps

Editorial

European and US Hegemony in Science and Technology: The case of Biological Sciences

By Kamal Pratap Singh

News Commentary

Darwin's Evolution in crisis: Conflict between Religious Persuasion and Explicit Science!!!

News Impact

The Biotech Express news effect on Biotech Coachings

News Commentary

Who was affected most by TDP BJP disunion?

Telugu Desam (TDP) formally pulled out of the central government on Thursday after a conversation between Prime Minister Narendra Modi and Andhra Pradesh CM N Chandrababu Naidu failed to reverse the downturn in ties between the allies a little more than a year ahead of the next Lok Sabha polls. Two TDP representatives quit the Modi ministry in Delhi while BJP ministers in the state government submitted their resignations to Naidu earlier in the day.

Guest Article

AN INTRODUCTION TO PSEUDOTYPED VIRUS AND ITS APPLICATION IN VIROLOGY RESEARCH

Abstract:

Startup Story

Bioincubator BioNEST in UOH inaugurated on National Science Day

Under the mentorship of Professor Pallu Reddanna, The biggest Bio-Incubator facility i.e, Bio-incubator Nurturing Entrepreneurship for Scaling Technologies (BioNEST) having 20,000 sq ft area, was inaugurated at University of Hyderabad on 28th February as a part of National Science Day celebrations.

Editorial

Probiotics and Products

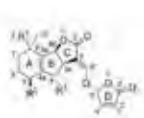
Barun K Bhattacharyya

Introduction

Guest Article

Strigolactone: A new plant hormone

Structural properties and occurrence



Startup Story

Shreeji Biotech's Skill Development Training Program on Microbiological Techniques

Overview

Aim of Training Program

Editorial

Stem Cell Drugs and not therapy would be subjected to regulations, according to health ministry India

Guest Article

CRISPR – Theory and Technology

CRISPR Locus

Article Invited

Stem cells & their status in India

Source: www.tour2india4health.com

What is a Stem Cell?

A mesenchymal stem cell is a primitive cell with the ability to:

Editorial

Biotech Coachings : Why their existence becomes important for students?

Introduction

Editorial

Biotech coachings in India

by Kamal Pratap Singh, CSIR-NET

Introduction

List of Biotech/ Life Science Coachings in India

In some special industry article we lists all the companies and compare their products and services

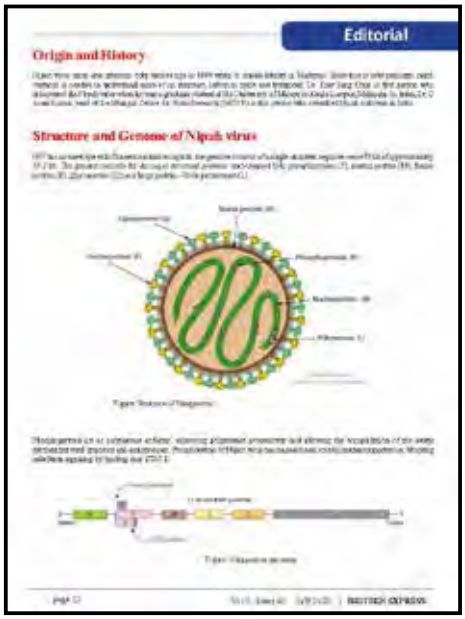
Editorial

Review: All about Nipah Virus

by Kamal Pratap Singh

N

Introduction



Editorial

Origin and History

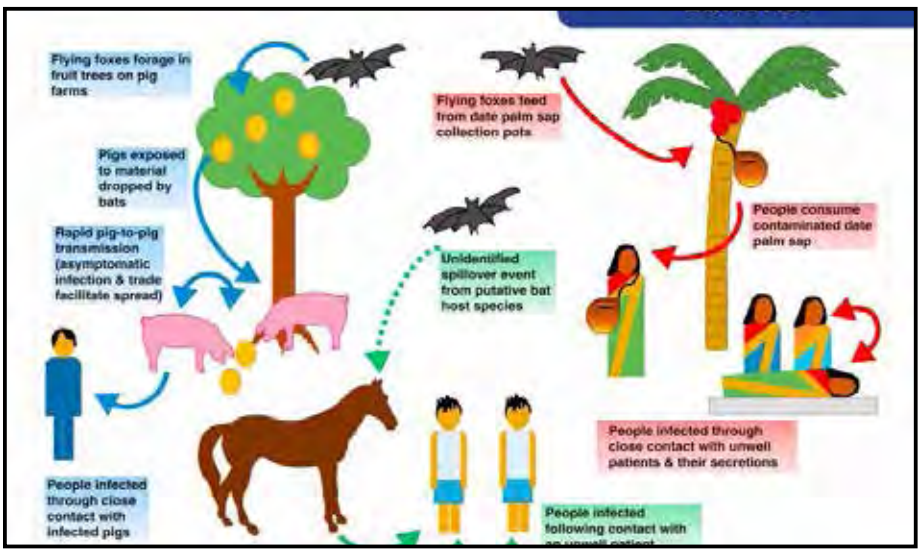
Structure and Genome of Nipah virus

Interview - Leader's Talk

What are your future strategies to provide assistance to student community?

How you see yourself after three many years (3.0) of working?

What is your view are achievements of your company?



Event Report

A one Day Symposium on

Research and Development of Vaccines: Issues, Challenges and Opportunities

Federation of Asian Biotech Associations (FABA) in association with PCI Solutions and C.R Rao AIMICS organized a one day Symposium entitled " Research and Development of Vaccines: Issues, Challenges and Opportunities" on the 19th May 2018.

Guest Article

Fish Embryonic Stem Cell Culture: Applications, Challenges and Alternative

Editorial

Algal Pigment As Magic Bullet For Health Management

Introduction

TESTIMONIALS

Biotech Express received so many wishes from the readers all around the world through e-mail, social media and by other means. It was very difficult to accomodate every testimonial here but we are giving few best ones and different endorsement provided by our readers and associates. We would like to thank everyone for their wishes.

From Professors

I am very glad to know that Biotech Express has completed 5 years. Heartiest congratulations for achieving this milestone.

It has been a wonderful experience of reading well-written articles on recent topics in life sciences and bitechnology. Furthermore I have been very happy to read and know technological innovations in biotechnology industry in India and the world. Advertisement have been very useful to our students.

Sincerely hope and wish that you will be able to continue publishing Biotech Express in future too.

Wishing you success in this venture,

Prof. T. Satyanarayana
Division of Biological Sciences & Engineering, Netaji Subhash Institute of Technology (Univ. of Delhi), New Delhi.

From Professors

Hearty congrats Kamal for the Successful completion of 5 years of service to the academy, industry and public with upto date developments, innovations and opportunities in biology, biotechnology and healthcare. My best wishes to the team behind the Biotech Express and hope it will emerge as the leading magazine in the years to come.

Prof. P. Reddanna
Eicosanoids, Inflammation and Cancer Group, School of Life Sciences, University of Hyderabad, India

From Industry

Dear Mr. Singh
"I feel honoured to be associated with scientific magazine like Biotech Express and it was extremely satisfying experience working with Biotech Express team. Scientific progress depends on the communication of information that can be trusted and Biotech Express is a vital part of that system. The magazine is looking forward to reaching a broad audience to help information to them in the field of development of Biotechnology."

with regards
Barun Bhattacharyya,

From Scientists

It has been very nice experience to associate with Biotech Express, which has travelled through rough and smooth waters of five good years. I am sure that hard work put by you and your team, especially bearing the difficult times with peace and calmness in mind without compromising on your principles has brought Biotech Express to achieve this mile stone and will lead it to grow further and achieve new heights in days and years to come. I have always enjoyed reading the new issues of Biotech Express and feel good to be a part of your great initiative.

Best wishes, Ashok Pandey
....
Prof Ashok Pandey
Distinguished Scientist
Centre for Innovation and Translational Research,
CSIR-Indian Institute of Toxicology Research, Lucknow.

From Students

Hello

My experience with Biotech Express has been really amazing so far. I am a postgraduate in Biotechnology but i left Science field after completing my MBA.

Biotech Express gave me the offer to write articles about interesting topics and i really loved it. Biotech Express is the one of its kind magazine in India which is quite beneficial for Biotech students.

Hope the magazine gives more such offers to professionals like me so that i remain touch with my field.

Thanks and Regards
Afsha Khan

This is the best magazine I found on internet for Biotech information and it is my luck that I am getting it free of cost regularly.

Anonymous Reader

From Students

This magazine is very very useful for the update of the entire BioTechnology and Life Science research and other work.

I am very happy that I am member of this magazine and regularly read all the articles and scientist information from all issues.

This is very helpful for the postgraduate Students like me . Great...!!!! And Heartiest Congratulations.....for upcoming Work .

Thank you..... Omkar Ketkar

From Scientists

One of my experience with Biotech Express is that it is providing analyzed data and the markets reports as well as profiling achievers in a very nice way in the publication.

Regards,
Prof. N. K. Ganguly,
Padma Bhushan 2008,Former DG-ICMR, Fellow- IASc, INSA, NASI

From Advertisers

Best wishes for Biotech Express 5th Anniversary. I must say that this magazine has done excellent promotion of a startup company of mine i.e. Shreeji Biotech. Your understanding of client's requirement and tailored plans has enabled us to achieve most exposure of our services like training, Agri Biotech and Pharma validation services.

Founder and Director, Shreeji Biotech

From Researchers

I wish to congratulate for successful completion of 5 years with Biotech express, it provides us recent updates in the world of biotech and life sciences. We got so many new things after reading your valuable publications. We also get in touch with upcoming conferences which we couldn't find without your efforts.

I am happy to congratulate you and your team for successfully completion of 5 years and I hope many more years will come with great success and will see something new in it.

Alkesh Hada, Research Associate, IARI, New Delhi.

EVENT REPORT: International Conference on Plant Genetics and Genomics "**Next Gen Crops for Sustainable Agriculture**"

The **4th Edition** of International Conference on Plant Genetics and Genomics "**Next Gen Crops for Sustainable Agriculture**" was organized on **July 19-20, 2018** in the **Hotel Hometel, Chandigarh, India** in which about 135 Scientists participated. This grand two days event witnessed around 27 enlightening Invited Talks, 5 Oral Presentations, 51 Poster Presentations and an Exhibition featuring Technology Giant like Merck Life Sciences.

During the Welcome Address of the Conference, Dr Sanjay Bajaj, Managing Director, Select Biosciences India greeted all the Speakers, Delegates and Exhibitors while introducing the organization and its activities to the audience. This was followed by Speaker Introduction Session in which each of the Speakers introduced themselves to the audience and shared their research interests. This brief introduction helped the audience to instantly connect and network with the speakers. In this session, mementos were also presented to the Speakers and Exhibitors. A group photograph was also organized as a part of the meeting.

In the "**Next Gen Crops for Sustainable Agriculture**" Conference, many renowned speakers discussed about various topics such as Agronomics, Crop Improvement, Abiotic/Biotic Stress Tolerance, Molecular and Omics Approaches for Plants, Plant-Microbe Interactions, Plant Gene Editing and many more. Apart from several eminent scientists speaking at the event, many young researchers and faculties also presented their research work in the form of Oral and Poster presentations which was appreciated by all.

The first scientific session **"Agronomics and Crop Improvement Strategies"** witnessed many interesting talks. **Dr Sanjay K Katiyar**, Senior Development Specialist-Technology Transfer, **International Rice Research Institute**, Philippines delivered a presentation in which he discussed about the role of Transformative Rice Breeding (TRB) in modernizing rice breeding programs in Asia and Africa by identification of marker trends, population breeding strategy and SNPs based MAS. In another talk, **Dr Manjit Singh**, **Ex-Director, ICAR-Directorate of Mushroom Research** deliberated on better production of mushrooms with the help of Agronomics and also advocated greater consumption for sustainable agriculture.

Another scientific session entitled "**Developing Crops with Improved Abiotic Stress Tolerance**" focused on understanding the effects of different kinds of abiotic stresses on crops and the subsequent development of climate resilient crops. One of the talk by **Dr Ashwani Pareek Professor, Jawaharlal Nehru University** contemplated on elucidating the signal perception and transduction pathways associated with abiotic stresses by a combined use of genetic, genomic, biochemical and cell biological techniques. **Dr K C Bansal, Area Convener, TERI-Deakin Nano-Biotechnology Centre** deliberated on the applications of genomic resources in developing climate resilient crops.

In session entitled "**Innovative Approaches for Better Plants**", **Dr Ramcharan Bhattacharya, Professor & Principal Scientist, National Research Centre on Plant Biotechnology** delivered a presentation, which focused on identification of endogenous peptide elicitors and delineating the mechanisms of downstream signaling involved in eliciting the defense response.

On Day 2 in the session entitled "**Current Techniques for Plant Improvement**", **Dr Mukesh Jain from Jawaharlal Nehru University** provided insights into the molecular signatures and regulatory mechanisms underlying agronomic traits

to facilitate research in various areas of functional and translational genomics in crop plants. **Dr Ram Kumar Sharma from CSIR-Institute of Himalayan Bioresource Technology** addressed the audience about their next-generation genomics efforts coupled with field studies for expediting the marker assisted breeding in natural populations.

In one of the exhilarating sessions entitled "**Molecular & Omics Approaches for Next Gen Plants**", the first presentation by **Dr Alon Samach, Associate Professor, The Hebrew University of Jerusalem, Israel** was on the phenomena of alternate bearing i.e. how heavy fruit load of one year reduces flowering the next year, leading to lower yields and entry into a biennial cycle. He further explained their approach for studying this phenomenon and presented their recent findings in olives and apples. Another talk in this session was delivered by **Dr Girdhar Pandey, Professor, Department of Plant Molecular Biology, University of Delhi**. He emphasized on how Rice Phytoglobins play significant role in plant growth and development by regulating reactive oxygen species (ROS), nitric oxide (NO) and energy homeostasis in plant cell as well as how these Rice Phytoglobins can be used as potential candidate to develop crop, which can tolerate K^+ and Ca^{2+} deficiency and abiotic stresses without losing yield and productivity.

In another session entitled "**Understanding Plant-Microbe Interactions**", **Dr Shilpi Sharma, Associate Professor, Indian Institute of Technology Delhi** highlighted the impact of bioinoculants using cultivation-dependent as well as state-of-art molecular microbiology tools to deduce their contribution to shaping the Rhizospheric microbiome for an overall enhancement of plant growth and productivity. The last talk by **Dr Mallikarjuna Garladinne from Agri Biotech Foundation** was aimed to discuss the use CRISPR/Cas9 genome editing platform to target site specific cleavage of coding and non coding regions of Geminiviral genomes of MYMV and MYMIV for attenuation of disease and subsequently increase the crop yield in green gram.

Among the young presenters, **Ms Heena Arora** from University of Delhi was adjudged the best oral presenter and **Ms Natacha Soto** from ICGEB stood first in poster presentation. They were awarded cash prizes in addition to memento and certificates. The other two winners in the poster presentation contest were **Ms Adaysha Bharati** and **Ms Garima Chauhan** both from JNU, New Delhi.

The event concluded with the Closing Remarks and Vote of Thanks by Dr Sanjay Bajaj. The feedback received from the participants indicated that the conference was very good in terms of scientific contents, quality of talks and networking opportunity. Overall it was a very well managed, well attended and very informative conference.

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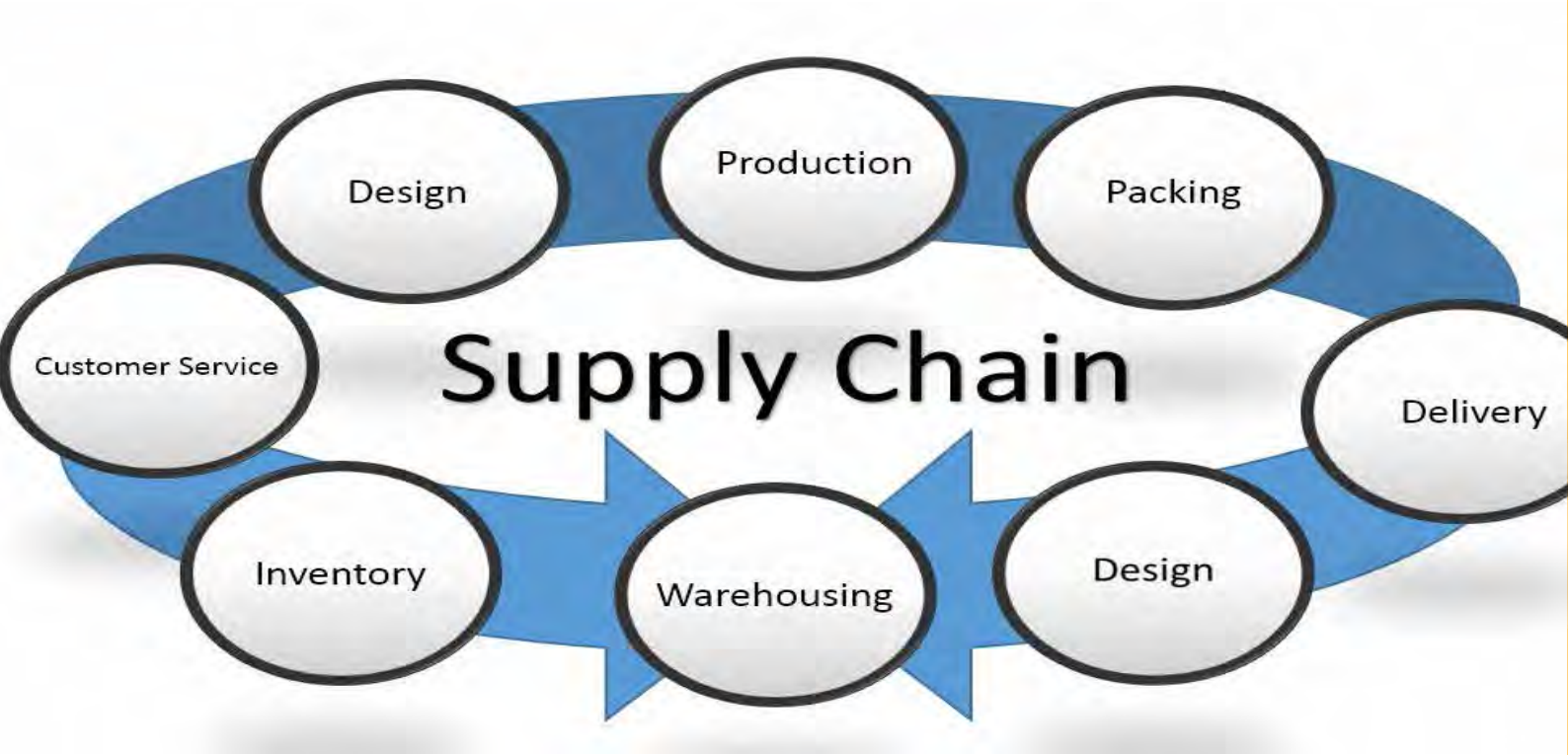

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