

BIOTECH EXPRESS

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2018



NEWS

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



EVENT REPORT:

International
Conference on
Plant Genetics
and Genomics
“Next Gen Crops
for Sustainable
Agriculture”

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

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August 2018

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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 more important in this sector.

In this issue we are showcasing a snapshot of 5 years of news reporting by compiling articles 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 and 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 executives of 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.

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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 others.

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

University Hospitals (UoH) Eye Institute will be one of the first medical centers in the United States to offer the Argus II (Second Generation) System.

New Products and Technology comes in the market

Bionews

Genetically modified foods and the great Indian hypocrisy



Concern over technology and science raised by society

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

Aug. 2013 — The National Institutes of Health (NIH) announced in Nature that it has reached an understanding with the family of the late Henrietta Lacks to allow biological researchers continued access to the whole genomic data of cells derived from her tumor, commonly known as HeLa cells. These cells have already been used extensively in scientific research and have helped make possible some of the most important medical advances of the past 60 years. These include the development of modern vaccines, cancer treatments, HIV treatments, and many others. HeLa cells are the most widely used human cell lines in existence today. Access to the whole genomic data of these cells will be a valuable reference tool for researchers using HeLa cells in their research.

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.



Latest research

Genome for the King Cobra Sequenced

Nov. 4, 2013 — Researchers from LSTM along with a team of international biologists have recently sequenced the genome of the king cobra, one of the world's most deadly venomous and sedentary snake species.

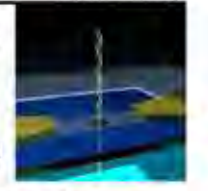
Research breakthrough happens



Latest research

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

Nov. 17, 2013 — If we wanted to count the number of people in a crowd, we could make an off-the-shelf estimate, very likely to be erroneous, or we could ask each person to pass through a turnstile. The latter resembles the method that EPFL researchers have used for counting a "DNA reader" that is able to detect the passage of individual DNA molecules through a DNA nanopore with integrated graphene nanoribbon.



Bionews

Is CSIR chief orchestrating lobbying for his extension?



Leaders become topic of criticism

Latest research

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.

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.

Current human embryonic stem cells are made from nuclei in vitro fertilized (IVF) embryos that are not used for the generation of embryos. The embryos do not survive the procedure. Therefore it has been illegal in the USA to use this method for deriving embryonic stem cells. Researcher's legislation has been more permissive. It has been possible to generate embryonic stem cells from embryos, only IVF embryos with the permission of the parents donating their eggs and sperm.

Researchers have found that the stem cells that are normally associated with pluripotent stem cells in the embryo. This allows the stem cell to differentiate and multiply without being compromised. Presumably the collection of stem cells has been done in a manner that avoids or minimizes the use of human cells, which have represented the stem cells through unassisted production of thousands of embryos.

"We can substitute the stem cells in a defined, directed, clinical quality environment. This means that one can produce stem cells on a large scale, with the precision required for pharmaceutical production," says Karl Fagan. Embryonic stem cells are pluripotent and can become any kind of cell. This means that they can become dopamine-producing cells, insulin-producing cells, heart muscle cells or eye cells, to name just a few of the types already used in therapy using stem cells.

"Using the protocol the supply of human embryonic stem cells will be larger a problem. It will be possible to establish a bank where stem cells will be stored by future use, which is important for assisting transplants being rejected," says Karl Fagan.

Journal Reference: Sergio Peña, Leticia Antonsson, Colin Mackay, David E. Simonson, Elena Sanchez, David M. Harrison, Anne D'Amico, Shihua Bao, Anne-Marie Mollnes, Susanne Keller, Ralf Küller, In Sun, Elizabeth Brennan, Magnus Nordmark, Olov Nilsson, Karl Fagan. Directed production of human embryonic stem cells as human-ES/iPS-carbon based in defined and non-toxic environment. Nature Communications, 2014, 5, 10388/10390.

BioTech Express Vol 1 Issue 7

Bionews

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

The best of education of countries has a direct influence on the education system. By way of example, it is clear that the investment that countries like India and China have made in education over the last few years has had a direct influence on their economic progress. The commitment that India made some time ago has also had repercussions on its economy. By contrast, in western countries increasingly less attention is being devoted to funding higher education.

World's Top Universities 2013

- 1 Harvard University-USA
- 2 Massachusetts Institute of Technology (MIT)-USA
- 3 University of Cambridge-United Kingdom
- 4 University of Oxford-U.K.
- 8 Stanford University-USA
- 7 Princeton University-USA
- 6 University of California-(UC)LA-USA
- 9 The University of Tokyo-Japan
- 10 Yale University-USA
- 11 California Institute of Technology (Caltech)-USA
- 12 University of Michigan-USA
- 13 Columbia University-USA
- 14 University of Chicago-USA
- 15 Imperial College London-U.K.
- 16 University of Toronto, Canada
- 17 University of Pennsylvania-USA
- 18 Rice University-Texas-USA
- 19 Cornell University-USA
- 20 The Ohio State University-USA

List of top organizations for students needed for decision process

BioTech Express Vol 1 Issue 7

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.



BioTech Express Vol 1 Issue 7

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.

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development. Using an old technique previously discarded as obsolete (called compound C) that converts stem cells into "neural progenitor cells," an early step in stem cell development, and cell factors that induce these cells to become motor neurons presented unusual challenges. Previous studies called for important signaling molecules at Day 10 after exposure to compound C, but with limited success in generating motor neurons. In this study, the researchers found that adding retinoic acid at Day 2 worked much better. The neural progenitor cells quickly and efficiently differentiated into motor neurons. This indicates that Day 2 represents a previously unrecognized neural progenitor cell stage, Wang says.

The new approach has immediate applications in the lab. Wang's team now plans to generate ALS patient stem cells, for example, to study disease and other methods that improve the speed and efficiency of generating the motor neurons and cell conditions. The cells can also be used to screen for drugs to treat motor neuron disease, and also can be used to study disease mechanisms in stem cells. "This is a rapid, efficient way to generate motor neurons and study disease mechanisms in stem cells, and potentially also modeling - spinal cord injuries and diseases like ALS," Wang says.

BioTech Express Vol 1 Issue 7

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 or beef fat - none is the cornerstone of a biofuel 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 biofuel fuel, was part of the 147th National Meeting of the American Chemical Society.

"This approach is not really about a brand new fat, but the manufacture of a known type of fat (biodiesel) using a more efficient, less wasteful process that targets abundant side-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 between those of a liquid and a gas.

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

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

In the earlier study, Jark and the team tested that more of the 100 million gallons of biofuel produced in the United States (2008-2014) came from soybean oil. But there has been growing concern that using soybean and other food crops for the purpose could slow food prices.

In searching for alternative biofuel materials, they discovered that waste alligator fat, millions of pounds of which are thrown out every year, could also work. They suggested animal and fish waste to be used.

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 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 existing knowledge that can be gleaned from this valuable resource.



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BioTech Express Vol 1 Issue 7

Bionews

Sun Pharmaceutical acquires ailing Ranbaxy Laboratories for \$4 billion

February 27, 2014

Sun Pharmaceutical has announced a \$4 billion acquisition of Ranbaxy Laboratories, a major move in the Indian pharmaceutical industry. The deal is expected to create a global pharmaceutical giant. Sun Pharmaceutical is a leading Indian pharmaceutical company, while Ranbaxy is a major player in the Indian generic drug market. The acquisition is expected to be completed by the end of the year.



Some of the biggest deals in Biotechnology and allied market happen

BioTech Express Vol 1 Issue 7

Latest research

New self-healing plastics developed

April 11, 2014

Scratches in the car finish or cracks in polymer materials: 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.



Some of the biggest deals in Biotechnology and allied market happen

BioTech Express Vol 1 Issue 7

Biotech news

Carrot Pusa Rudhira Triggers Profitability and Entrepreneurship

February 27, 2014

Scientists have developed a new carrot variety, Pusa Rudhira, which is highly profitable and triggers entrepreneurship. The variety is characterized by its high yield and resistance to diseases. It is expected to be a major success for farmers and entrepreneurs in the carrot industry.

Govt organizations make progress and comes with patented products

BioTech Express Vol 1 Issue 7

NEWS IN FOCUS

Regularization of research Fellowship

Regulation of research fellowship p.12
Unethical teacher - Is it possible? p.14
DBT guidelines on research misconduct p.18



Regularization of research Fellowship

Around 700 promoters gathered at DST demanding regularization of their research Fellowship...

NEWS IN FOCUS

How can anyone survive in this scenario of economy with only 14000-15000 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 to better option but resentment toward PhD is like 5 years of life has already gone with an average in hand explained by Nitin Bhatt from a private Biotech firm.



Fellowship Hike

On the same date research awards of approx Rs 14000-15000 per month are being given to PhD scholars...

NEWS IN FOCUS

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

Research misconduct remains a pervasive problem in science, technology and innovation... The DBT has taken several steps to address this issue...

NEWS IN FOCUS

IMTECH: CSIR scientist used faked data in seven papers

The investigation committee concluded that there was data manipulation in the papers... CSIR scientist used faked data in seven papers...

NEWS IN FOCUS

Animal dissection banned in colleges

August 5, 2014
Learning through dissection has been a common practice in biology education... Animal dissection is banned in colleges...

RESEARCH HIGHLIGHTS

Non-surgical Embryo Transfer in Pig

Successful non-surgical embryo transfer has been achieved for the first time in the porcine... Non-surgical embryo transfer in pig...

NEWS IN FOCUS

OCCUPY DST

We will be back on 24th September 2014
SCIENCE MONEY



OCCUPY DST

The demands are few but decision is big. This is the condition with Indian researchers...

NOTICE STUDENTS

DEPARTMENT OF SCIENCE & TECHNOLOGY (DST)

DST AWARDS FOR PARTICIPATION IN THE MEETING OF NOBEL LAUREATES & STUDENTS

Dissemination of technological know-how is essential for economic development... DST Awards for Participation in the Meeting of Nobel Laureates & Students...

NEWS IN FOCUS

THE BIOTECH RESEARCH SOCIETY INDIA

The Journey of a Decade



Prof. Ashok Pandey, President, Biotech Research Society India

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 Born: 1939, New York, NY, USA	Edvard I. Moser Born: 1962, Ålesund, Norway	May-Britt Moser Born: 1963, Fosnavåg, Norway
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PHOTO COURTESY OF THE ROYAL SWEDISH ACADEMY OF SCIENCES

NEWS IN FOCUS

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

BIOTECH EXPRESS Vol 2 Issue 3 October 2014 13

NEWS IN FOCUS

World Food prize 2014

Dr. Sanjaya Rajaram, a wheat scientist of India and Mexico, won an impressive 400 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

BIOTECH EXPRESS Vol 2 Issue 3 October 2014 13

RESEARCH HIGHLIGHTS

Lessons from 'Spanish flu,' nearly 100 years later

Land your Dream Job!

October 22, 2014

Just in time for flu season, a new study of the mister of all pandemics could offer insight into infection control measures for the flu and other epidemic diseases. Researchers studied the evolution of the 1918 influenza pandemic, aka "Spanish flu," in 1918, the virus killed 50 million people worldwide, 30 to 50 million of whom were in India. In the United States alone, the Spanish flu claimed 675,000 lives in nine months.

BIOTECH EXPRESS Vol 2 Issue 3 October 2014 14

RESEARCH HIGHLIGHTS

Low cost Rotavirus vaccine licensed for manufacture

At the end of the year, joint venture companies for the vaccine will be set up in India and other countries.

BIOTECH EXPRESS Vol 2 Issue 3 October 2014 14

NEWS IN FOCUS

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

The Ministry of Science & Technology (MST) is planning to make the country a hub for scientific research in the coming years. Under the 'Make in India' initiative, the MST is planning to set up a network of research centres across the country. The MST is also planning to set up a network of research centres across the country.

BIOTECH EXPRESS Vol 2 Issue 3 October 2014 15

IBIN Indian Bio-resource Information Network

Origin and Growth of (IBIN)

Growth of IBIN

IBIN was initially constituted as a network of two centres viz. **Centre for Bioinformatics and Data Mining** and **Centre for Bioinformatics and Data Mining** in 2002. The two centres were merged together as **Centre for Bioinformatics and Data Mining** in 2005. The Centre for Bioinformatics and Data Mining was established in 2005 and since then it has been actively engaged in providing information on bio-resources to the scientific community.

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

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



GMOs FACTS

GMOs

Introduction

A GMO is the use of genetic engineering to create organisms that have been manipulated through genetic engineering. While bacteria, plants, and animals can be genetically engineered, people probably realize better with their opposition to genetically modified organisms, for example, corn, soy, coffee, and wheat.

History of GMOs

GMOs have a very long history. In fact, they've been around for thousands of years. Traditionally, farmers have been modifying crops for thousands of years or so by hand crossbreeding their best qualities. Hand-pollinated plants to create the best crop, like Mendel's Peas from 1865.

So why use molecular biology over traditional breeding? With traditional breeding, organisms often undergo long, unregulated periods of time. This can lead to both useful and unwanted traits in the offspring. Sometimes these unwanted traits can be created, but sometimes they can't. Genetic engineering, using recombinant DNA, breeding and molecular biology can create traits of naturally occurring organisms. These organisms can then be genetically engineered, and molecular biology can create organisms with altered genomes.

Recently, biotech scientists have been using genetic engineering to create the insulin that is used to treat diabetes. This insulin was once made from a cow, but now it's made from a genetically modified bacterium. This is a great example of how genetic engineering can be used to create products that are better for people.

The biotech industry has also been using genetic engineering to create crops that are resistant to pests. This is a great example of how genetic engineering can be used to create products that are better for people.



17 September 2011 | BIOTECH EXPRESS | www.biotechexpress.com | Vol. 6 Issue 2

NEWS IN FOCUS

Biotech hub & bioinformatics centre inaugurated at Tripura University

Shillong (NT), India
21st September, 2011



His Excellency, Minister for Science & Technology and Joint Secretary, Dr. N. K. Saha, inaugurated the Biotech Hub and Bioinformatics Centre at Tripura University. The inauguration was held on 21st September, 2011. The Biotech Hub and Bioinformatics Centre will be a centre for research and development in the field of biotechnology and bioinformatics. The centre will also serve as a hub for training and capacity building in these fields. The inauguration was attended by the Minister, Joint Secretary, and other officials of the Government of Tripura. The inauguration was also attended by the Vice-Chancellor, Tripura University, and other officials of the university.

On the occasion, the Minister, Science & Technology, Tripura, His Excellency, Dr. N. K. Saha, inaugurated the Biotech Hub and Bioinformatics Centre at Tripura University. The inauguration was held on 21st September, 2011. The Biotech Hub and Bioinformatics Centre will be a centre for research and development in the field of biotechnology and bioinformatics. The centre will also serve as a hub for training and capacity building in these fields. The inauguration was attended by the Minister, Joint Secretary, and other officials of the Government of Tripura. The inauguration was also attended by the Vice-Chancellor, Tripura University, and other officials of the university.

When Govt makes facilities for scientific talent

The Government of India has announced a new scheme to support scientific talent. The scheme is called the 'National Talent Search Scheme' and it aims to identify and nurture young talent in the field of science and technology. The scheme will provide financial assistance to students who are talented in science and technology. The scheme will also provide training and mentorship to these students. The scheme is expected to benefit thousands of students across the country.



Source: Thomson News and Media Limited, 1 October 2011

William C Campbell, Satoshi Omura and Tu Youyou win Nobel prize in medicine

Campbell and Omura win for their work on a therapy against leishmaniasis, sharing the prize with Tu for her work on a therapy against malaria.

The Swedish Nobel award, Japan and China have won the Nobel prize in medicine for William Campbell, Satoshi Omura and Tu Youyou. Campbell and Omura were awarded for their work on a therapy against leishmaniasis, a disease that causes fever and skin ulcers. Tu Youyou was awarded for her work on a therapy against malaria, a disease that causes fever and chills. The Nobel prize in medicine is one of the most prestigious awards in the world. It is awarded annually to individuals who have made significant contributions to the field of medicine.

The Nobel prize in medicine is one of the most prestigious awards in the world. It is awarded annually to individuals who have made significant contributions to the field of medicine. The prize is awarded to individuals who have made significant contributions to the field of medicine. The prize is awarded to individuals who have made significant contributions to the field of medicine.



Dr Harsh Vardhan examines DBT supported research at TNAU

Dr. Harsh Vardhan, Union Minister for Science and Technology, visited Tamil Nadu Agricultural University (TNAU) to examine research supported by the Department of Biotechnology (DBT).

During his visit, Dr. Harsh Vardhan interacted with the researchers and examined the research projects. He was impressed by the quality of the research and the dedication of the researchers. He also interacted with the students and staff of the university. The visit was a success and it is expected that it will lead to further collaboration between the government and the university.

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G. V. S. Sastry assumes charge as new Director General of Council of Scientific & Industrial Research (CSIR)

G. V. S. Sastry, former Director General of CSIR, has been appointed as the new Director General of CSIR.

The appointment of G. V. S. Sastry as the new Director General of CSIR is a significant appointment. He has a long and distinguished career in the field of science and technology. He has held several key positions in CSIR and has made significant contributions to the organization. His appointment is expected to bring a new level of leadership and innovation to CSIR.

Heads of big Govt organizations get selected for the post

The heads of several major government organizations have been selected for their respective posts. The appointments include the Director General of CSIR, the Director of IIT Bombay, and the Director of IIT Madras.



World Record breaking activities happens in the country

Several world record-breaking activities have taken place in the country. These include the world's largest school assembly, the world's largest group photo, and the world's largest group hug. These activities were held in various parts of the country and were attended by thousands of people.



Japan & India step up ties in the field of Science & Technology DBT-AIST International Laboratory for Advanced Biomedicine (DAILAB) Inaugurated at IIT Delhi

In order to promote closer and effective collaboration between India and Japan, the Department of Biotechnology of India (DBT), Govt. of India and Medical Institute of Advanced Industrial Science and Technology (AIST), Japan had inaugurated a joint international research laboratory, named DAILAB (DBT-AIST International Laboratory for Advanced Biomedicine) at the Biomedical Research Institute of AIST in Tsukuba, Japan in October 2010. DAILAB is the first joint international laboratory of DBT and AIST in the field of Biomedicine. The laboratory is a state-of-the-art research facility and is equipped with advanced equipment and facilities. The laboratory will focus on research in the field of biomedicine, including areas such as drug discovery, regenerative medicine, and personalized medicine. The inauguration was attended by officials from both countries and was a significant event in the history of India-Japan relations.



When India ties with International Organization to support R&D

India has entered into a partnership with an international organization to support research and development in the field of biotechnology. The partnership is expected to lead to significant advancements in the field and to create new opportunities for collaboration and innovation.



BGR-34™ CSIR

1. Bactericidal - Potent DPT4 inhibitor
2. Bacteriostatic - Blood glucose regulator
3. Proliferative - Insulin resistance inhibitor
4. Bacteriostatic - Insulin resistance inhibitor
5. Bacteriostatic - Insulin resistance inhibitor
6. Bacteriostatic - Insulin resistance inhibitor
7. Bacteriostatic - Insulin resistance inhibitor
8. Bacteriostatic - Insulin resistance inhibitor
9. Bacteriostatic - Insulin resistance inhibitor
10. Bacteriostatic - Insulin resistance inhibitor
11. Bacteriostatic - Insulin resistance inhibitor
12. Bacteriostatic - Insulin resistance inhibitor
13. Bacteriostatic - Insulin resistance inhibitor

3 Phytocompounds acting synergistically for control. BGR-34 is a natural product that has been shown to have a wide range of health benefits. It is a powerful antioxidant and has been shown to improve insulin sensitivity, reduce blood sugar levels, and protect against heart disease. BGR-34 is a natural product that has been shown to have a wide range of health benefits. It is a powerful antioxidant and has been shown to improve insulin sensitivity, reduce blood sugar levels, and protect against heart disease.

When new products comes out from Govt Labs

The government has announced that it will be launching a series of new products from its laboratories. These products are expected to revolutionize the way we live and work, and to create new opportunities for growth and innovation.



Frogman of India

Dr. S. D. Biju is a prominent figure in the field of biotechnology. He has made significant contributions to the field and has been recognized for his work. He is a leader in the field and is expected to continue to make significant contributions in the future.

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NEWS IN FOCUS

Merck Acquisition of Sigma Aldrich

Merck's exciting news will be a great boost to the company's growth in India. The acquisition of Sigma Aldrich is a significant milestone for the company, which is a global leader in the pharmaceutical and chemical industries.

The Merck Group, which is a global leader in the pharmaceutical and chemical industries, has announced the acquisition of Sigma Aldrich, a leading global supplier of chemicals and reagents. The acquisition is expected to be completed by the end of 2013.

Merck-Sigma Aldrich Acquisition Results

- A \$1.17 billion acquisition establishes leading player in life science industry
- New entry to enhance product range, capability and geographic reach
- Customer benefit from more than 300,000 products offering with high-impact brands distributed through leading life science professionals

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

www.biotechexpress.com

NEWS IN FOCUS

87th Annual General Meeting of the ICAR Society

23 February 2016, New Delhi



Union Agriculture and Farmers Welfare Minister, Prakash Singh, presided over the 87th Annual General Meeting of the ICAR Society. The meeting was held at the ICAR Complex, New Delhi, on February 23, 2016.

Big organizations celebrates their Jubilees

www.biotechexpress.com

News In Focus

Thomson Reuters India Innovation Awards 2015

Thomson Reuters India Innovation Awards 2015. The awards recognize the top 50 Indian innovators in the field of biotechnology and pharmaceuticals.

Top 50 Indian innovators

1. Dr. Anand Mehta	21. Dr. Anand Mehta
2. Dr. Anand Mehta	22. Dr. Anand Mehta
3. Dr. Anand Mehta	23. Dr. Anand Mehta
4. Dr. Anand Mehta	24. Dr. Anand Mehta
5. Dr. Anand Mehta	25. Dr. Anand Mehta
6. Dr. Anand Mehta	26. Dr. Anand Mehta
7. Dr. Anand Mehta	27. Dr. Anand Mehta
8. Dr. Anand Mehta	28. Dr. Anand Mehta
9. Dr. Anand Mehta	29. Dr. Anand Mehta
10. Dr. Anand Mehta	30. Dr. Anand Mehta
11. Dr. Anand Mehta	31. Dr. Anand Mehta
12. Dr. Anand Mehta	32. Dr. Anand Mehta
13. Dr. Anand Mehta	33. Dr. Anand Mehta
14. Dr. Anand Mehta	34. Dr. Anand Mehta
15. Dr. Anand Mehta	35. Dr. Anand Mehta
16. Dr. Anand Mehta	36. Dr. Anand Mehta
17. Dr. Anand Mehta	37. Dr. Anand Mehta
18. Dr. Anand Mehta	38. Dr. Anand Mehta
19. Dr. Anand Mehta	39. Dr. Anand Mehta
20. Dr. Anand Mehta	40. Dr. Anand Mehta
41. Dr. Anand Mehta	50. Dr. Anand Mehta

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News In Focus

When India ties with International Organization to support R&D

DBT - AIST International Laboratory for Advanced Biomedicine. The laboratory is a joint venture between the Department of Biotechnology (DBT), Government of India, and the Agency for Science, Technology and Innovation (ASTI), Japan.



DAILY NEWSLETTER

Since Oct. 3, 2013

Volume 4 (March 2016)

Inauguration of DAILAB (BIT-Delhi)

www.biotechexpress.com

News In Focus

NEWSLETTER

Volume 4 (March 2016)

www.biotechexpress.com

News In Focus

India's Current Achievements

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

The inauguration of India's first 2G ethanol plant was held on Earth Day (April 22, 2016) at the Bioethanol Plant, Bhubaneswar, Odisha. The plant is a joint venture between the Government of India and the Government of Odisha.

When something pioneer and big happens in the country

www.biotechexpress.com

News In Focus

India's Current Achievements

Innovation in Ginger Cultivation

Minister of Agriculture, Prakash Singh, inaugurated the 100th anniversary of the Department of Biotechnology (DBT) in the form of a ginger cultivation project in the village of Panchsahi, Bihar. The project is a joint venture between the DBT and the Government of Bihar.



Promotion of good networks of studies and research is required

www.biotechexpress.com

News In Focus

India's Current Achievements

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

The workshop was held at the ICAR Complex, New Delhi, on February 23, 2016. It was organized by the ICAR Society and the Indian Council of Medical Research (ICMR).



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News In Focus

India's Current Achievements

A plant that makes rain subsides discovered in India

A plant that makes rain subsides has been discovered in India. The plant is a joint venture between the Government of India and the Government of Odisha.



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News in Focus

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

Import and export of biological samples will be free from August 2016. The Union government has decided to waive the license requirement for the import and export of biological samples...

When India gives incentives to researchers

News in Focus

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

By Team ABLE about that. Requesting the citizens of India 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 by School of Life Sciences, University of Hyderabad.



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

Prof Ashok Pandey, IISER award CSIR National Scientist for Interdisciplinary Science and Technology in Translational Areas, India for about 27 years and created Interdisciplinary Bioscience as well as Center for Biotech at IISER, giving the nation a global tag by its work.

BIOTECH EXPRESS | Vol 6, Issue 4 | August 2018

HONORS

Nobel Prize in Chemistry 2016

The 2016 Nobel Prize in Chemistry has been awarded to Jean-Pierre Sauvage, Sir J. Fraser Stoddart and Donald C. Cram for their discovery and synthesis of rotaxanes and catenanes.



Nobel Prize in Physiology and Medicine 2016

The Nobel Prize in Physiology and Medicine 2016 has been awarded to Yoshinori Ohsumi for his discovery of autophagy.



When Society recognizes people for their contributions

NEWS IN FOCUS



PM inaugurates Nobel Prize series

Prime Minister Narendra Modi inaugurated the Nobel Prize series in Ahmedabad as part of the 150th Anniversary Celebrations 2017. He greeted the laureates present at the occasion and hoped that they would regard the honor as a source of inspiration for the nation.

When India shows aspiration to become global power

NEWS IN FOCUS

Government aims to make India a global Biotech Hub by 2020

The Ministry of Science and Technology (MST) has announced that the Government of India aims to make India a global Biotech Hub by 2020. The MST has set up a Biotech Hub in Ahmedabad, Gujarat, which will be the first of its kind in India.

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.

Prof Ashok Pandey, IISER award CSIR National Scientist for Interdisciplinary Science and Technology in Translational Areas, India for about 27 years and created Interdisciplinary Bioscience...

Community based bio control of coconut black headed caterpillar

A community-based bio-control program for coconut black-headed caterpillar has been initiated in the state of Kerala. The program involves the use of natural predators and the release of bio-control agents.

News In Focus

There is a sense of optimism locally and abroad... The award of national prominence and an endowment... The award of national prominence and an endowment...

When Indian organizations show aspiration to become global player in research

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

The strategy meet of the Department of Biotechnology (DBT) brought together experts from Biotech...

News In Focus

Advanced Genomics continued to receive the... Awards of 2017

The Society for Applied Microbiology (SAM) awarded the 1st, 2nd, 3rd and 4th prizes... The 1st prize was awarded to...

Government approves Mission for Indigenous Biopharma Product Development

Chief Minister Nara Chandrababu Naidu... Government has approved a mission to develop indigenous biopharmaceutical products...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

News In Focus

NIPGR develops Genetically Modified rice that can reduce phosphorus fertilizer usage

New rice developed by the National Institute of Plant Genome Research (NIPGR) can reduce phosphorus fertilizer usage...

Supported by the Department of Biotechnology (DBT)...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

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The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

International Bioprocessing Association Young Scientist Award 2017

The International Bioprocessing Association (IBA) has announced the Young Scientist Award 2017...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...



Report

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



The seventh international conference of the International Union on Industrial Bioprocessing was held at Jiangnan University, Wuxi, China during May 21-24, 2017. The conference was attended by 600 registered delegates...

The conference was formally opened on 21st May at 10:00 am under the Chairmanship of Prof. Ashok Pandey...

The 2nd day of the meeting a technical program was organized to continue the discussion of the conference...

The 3rd day of the meeting a technical program was organized to continue the discussion of the conference...

The 4th day of the meeting a technical program was organized to continue the discussion of the conference...

Report

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



The International Bioprocessing Association (IBA) has announced the Distinguished Awards 2017...

Editorial

GST Rate on Pharmaceutical Products

1. GST 18% on pharmaceutical products... 2. GST 12% on pharmaceutical products... 3. GST 5% on pharmaceutical products...

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)



The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

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The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

The Union Minister of Health and Family Welfare... The Union Minister of Health and Family Welfare...

NEWS - Govt. and Industry

Union Minister of Health and Family Welfare... Union Minister of Health and Family Welfare...



Lupin has announced the launch of its new product... Lupin has announced the launch of its new product...

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Lupin has announced the launch of its new product... Lupin has announced the launch of its new product...

Lupin has announced the launch of its new product... Lupin has announced the launch of its new product...

NEWS - Govt. and Industry

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

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

Zyloz Castilla received approval from the US health regulator to market Doxosozin tablets... Zyloz Castilla received approval from the US health regulator to market Doxosozin tablets...

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When India takes a step toward all inclusive growth

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

On the demise of great personalities

News In Focus

Why Researchers are marching against Science Policies in India?

Following the science protests in August 8 thousands of scientists, researchers, teachers and the Aarogya Yojana in the 'March for Science' spearheaded by the Bioinformatics Society in a number of Indian cities. Earlier this year in April over 1000 scientists gathered in New Delhi to...



When researchers raise issues and shows protest against science policies

BIOTECH EXPRESS | Vol 6, Issue 07 | August 2018 | www.biotechexpress.com | Page 18

News Analysis

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

USFDA Form 483 observations in Biocon's Bengaluru Unit and Associated Share price effect. The average price of share in a month is around 100 INR which is a normal price of 100 INR to 110 INR in the market.



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News In Focus

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

Dr. Vijay Soni NASI-Young Scientist Platinum Jubilee Award for the year 2017, in the field of Biology. The award is presented to young scientists who have made significant contributions in their respective fields.

Dr. Vijay Soni is a young scientist who has made significant contributions in the field of biology. He has been awarded the NASI-Young Scientist Platinum Jubilee Award for the year 2017. His research has focused on the study of the genetic diversity of various species in the Indian subcontinent. He has also been involved in several international conferences and workshops. His work has been published in several international journals and he has received several awards and honors for his contributions to the field of biology.

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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

www.biotechexpress.com

AWARDS News In Focus

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

Biological Sciences	Medical Sciences
Dr. Praveen Choudhary, IIT Bombay	Dr. Anand Kulkarni, IIT Bombay
Dr. Anand Kulkarni, IIT Bombay	Dr. Praveen Choudhary, IIT Bombay
Dr. Praveen Choudhary, IIT Bombay	Dr. Anand Kulkarni, IIT Bombay

2017 NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

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

India's Top News

NOBEL AWARDS APPOINTED AS CEO

Dr. Vijay Soni is a young scientist who has made significant contributions in the field of biology. He has been awarded the NASI-Young Scientist Platinum Jubilee Award for the year 2017. His research has focused on the study of the genetic diversity of various species in the Indian subcontinent. He has also been involved in several international conferences and workshops. His work has been published in several international journals and he has received several awards and honors for his contributions to the field of biology.

NEWS: Govt & Industry

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

There were many things happened with Gyan Bindu Academy (GBA) in the year 2017, the first of which is the delivery of results to our students. The second thing is the emergence of Gyan Bindu Academy (GBA) as a premier institute for NEET Life Science Coaching as the topmost rank has given by CBSE in June 2017 in Delhi & GBA's Impact continues to grow as it has led to satisfy with topmost result from their institute.

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

Suspicious Death of Apotex Founder Becomes a Murder Investigation

Healthcare investigator has taken over the investigation into the suspected death of Apotex Chairman of India and founder Barry Sherman. The investigation is ongoing and the police are working to identify the cause of death.

Shire to Break Up Business Into Two Companies

News in Focus

ICGER Organized International Vaccine Conference

International Centre for Genetic Engineering and Biotechnology (ICGER) organized the International Vaccine Conference for the first time in India. The conference brought together more than 100 international vaccine experts and researchers from various countries to discuss the latest developments in vaccine research and development.

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

News in Focus

more people to suggest the death could be murder... Campbell joined Nature in 1978...

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

Philip Campbell, the long-time editor-in-chief of Nature and the family of Nature journal...

When something different happens in Science Publishing industry

As a publisher in a business that has been in existence for over 200 years...

and it was for some time in my working life... Campbell joined Nature in 1978...

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

A university investigation has found falsified data in a paper published in the journal Proceedings of the National Academy of Sciences...

Research Breakthrough

at it, stopped a genetic lesion in the 'wild' genome that controls growth of root branches called lateral roots...



Treatment strategies for multidrug-resistant chronic infections

The researchers found some six chronic infections of multi-drug resistant organisms were present across clinical studies...

Research Breakthrough



Fact File

At Denny's Rhinos can share... The rhinoceros is a large mammal...

The study published today in Current Biology... The team developed a new...

from extinction

England's first rhino, a female named 'Dorothy'...

DNA evidence used to protect the rhinoceros

about the rhino...

News Analysis

What if Darwinism doesn't exist?

Darwin's theory of evolution is the basis of basis to perform most of the biotechnology experiments in a research lab... When Indian politicians get involved in heated science discussions

News in Focus

WHO grants Prequalification to DBT funded rotavirus vaccine, ROTAVAC. Includes logo for ROIVANT SCIENCES.

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

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. Includes an image of an Egyptian mummy.

Research Breakthrough

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

Researchers create first stem cells using CRISPR genome activation

Researchers have created the first stem cells using CRISPR genome activation.

The researchers used CRISPR technology to activate pluripotency genes in mouse embryonic fibroblasts (MEFs) to generate induced pluripotent stem cells (iPSCs).

The researchers found that CRISPR activation of pluripotency genes in MEFs was more efficient than traditional methods.



Researchers do breakthrough in research

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

News of Editorial

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



Dr. Kaushala Prasad Mishra, an eminent scientist in Radiation Physics, has been appointed as a member of the Commission on Science and Technology terminology of MHRD, Govt of India.

When our Advisory Board Members become news of national importance

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

NEWS: Govt & Industry

Monthly Compilation

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



MS Swaminathan, former Union Agriculture Minister, says the use of 'C2' costs for Minimum Support Prices (MSP) is a better option than providing farm loan waivers.

Biotech Express | Vol 5, Issue 12 | March 2018 | www.biotechexpress.in | 100

News in Focus

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

Novartis is expected to acquire Sandoz, which would be a major move in the pharmaceutical industry.

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) for Doctoral Studies (Ph.D.) in IITs and IISc).

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

News in Focus

Women Play Vital Role in Biotech, Study

A study shows that women play a vital role in the biotechnology industry, contributing significantly to research and development.

Brazil sugar mills start genetically-modified cane plantation

Brazilian sugar mills have started planting genetically modified sugarcane to improve yield and resistance to pests.

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

Editorials in News

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

HRD Minister Shri Prakash Javadekar presented the Most Outstanding Researcher award to Prof Ashok Pandey for his contributions to science.

Biotech Express | Vol 5, Issue 12 | July 2018 | www.biotechexpress.in | 100

News of Editorial



Dr. Sunil KAUL and Dr. Remu WADHWHA were awarded 'AIST President Award' on April 2, 2018 in AIST, Tsukuba, Japan

Dr. Sunil Kaul and Dr. Remu Wadhwa were awarded the AIST President Award for their contributions to science and technology.

When our Advisory Board Members were decorated on International level.

Biotech Express | Vol 5, Issue 12 | April 2018 | www.biotechexpress.in | 100

Press Release

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

Researchers from Bristol University have been selected to participate in the ESA Education Office's hypergravity competition.

Biotech Express | Vol 5, Issue 12 | April 2018 | www.biotechexpress.in | 100

Bilateral News from 12th March - 12th April

NEWS: Govt & Industry

60 higher educational institutions granted full autonomy by UGC

The University Grants Commission (UGC) has granted full autonomy to 60 higher educational institutions.

When Govt makes moves to promote academic infrastructure in the country

Biotech Express | Vol 5, Issue 12 | April 2018 | www.biotechexpress.in | 100

News in Focus

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

By Renu Swarup, New Delhi, India, 2018



Dr. Renu Swarup, a Drosophila biologist, has been appointed as the Principal Scientific Advisor (PSA) to the Government of India...

When highest Scientific positions like PMA changes...

News in Focus

About Prof Vijay Raghavan

Prof. Vijay Raghavan is a Drosophila biologist who has been working at the Centre for Cellular and Biomolecular Research, Indian Institute of Technology, Kanpur...

Prof. Raghavan has been working at the Centre for Cellular and Biomolecular Research, Indian Institute of Technology, Kanpur...

Prof. Raghavan has been working at the Centre for Cellular and Biomolecular Research, Indian Institute of Technology, Kanpur...

Dr. Renu Swarup appointed as Secretary, Department of Biotechnology

Dr. Renu Swarup has been appointed as the Secretary of the Department of Biotechnology, Government of India...



When DBT gets its new secretary...

Govt. and Industry News

Bigen Buys Pfizer Neuro-psychiatry Candidate for Up-to-€90M

Bigen has acquired the neuro-psychiatry candidate BMS-986178 from Pfizer for up to €90 million...

Bigen has acquired the neuro-psychiatry candidate BMS-986178 from Pfizer for up to €90 million...

Bigen has acquired the neuro-psychiatry candidate BMS-986178 from Pfizer for up to €90 million...

ADMS professor Brijraj Bhargava appointed DG of ICMR

Dr. Brijraj Bhargava, a professor at the All India Institute of Medical Sciences (AIIMS), has been appointed as the Director General of the Indian Council of Medical Research (ICMR)...



When largest medical organization ICMR gets its new DG...

Govt. and Industry News

Dr. Renu Swarup, a Drosophila biologist, has been appointed as the Principal Scientific Advisor (PSA) to the Government of India...

Dr. Renu Swarup, a Drosophila biologist, has been appointed as the Principal Scientific Advisor (PSA) to the Government of India...

Roche launches new lung, bladder cancer drug in India

Roche has launched a new drug for lung and bladder cancer in India, marking a significant milestone for the company...

Roche has launched a new drug for lung and bladder cancer in India, marking a significant milestone for the company...

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

A consortium of UK and US researchers has created the largest genomics project to study the Indian population...

A consortium of UK and US researchers has created the largest genomics project to study the Indian population...

Govt. and Industry News

Dr. Renu Swarup, a Drosophila biologist, has been appointed as the Principal Scientific Advisor (PSA) to the Government of India...

Dr. Renu Swarup, a Drosophila biologist, has been appointed as the Principal Scientific Advisor (PSA) to the Government of India...

Hirobuck Who Injected Himself with Un-tested Hepatitis Vaccine Found Dead

A man who injected himself with an untested hepatitis vaccine has been found dead, raising concerns about vaccine safety...

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

India is set to receive significant funding for research and development from international organizations...

News in Focus

Top Biotech Influencers to Watch on Twitter

A list of top biotech influencers to watch on Twitter, including industry leaders and researchers...

A list of top biotech influencers to watch on Twitter, including industry leaders and researchers...

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Research Breakthrough

Researchers have discovered a new breakthrough in the field of biotechnology, potentially leading to new treatments...

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Why nuclear reactors die in patients with spinal neuron disease

A study has shown that nuclear reactors in the spine die in patients with spinal neuron disease, leading to pain and disability...

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Editorial in News

Prof Ashok Pandey wins VIR's Lifetime Achievement Award in Science

Prof. Ashok Pandey has been awarded the VIR's Lifetime Achievement Award in Science for his contributions to the field of biotechnology...

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News in Focus

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

India and South Korea have signed five Memoranda of Understanding (MoUs) for cooperation in science and technology...

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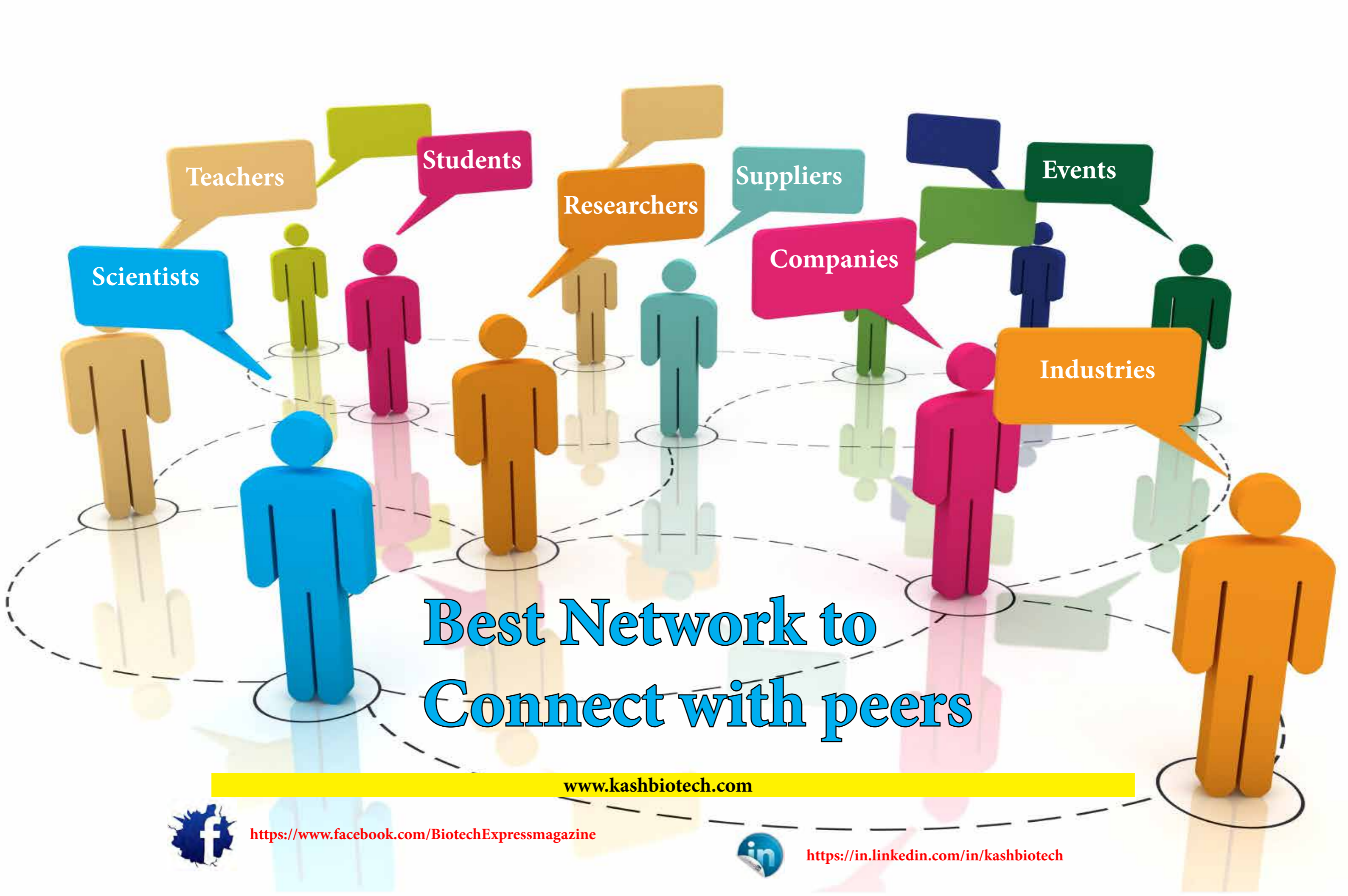
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<https://in.linkedin.com/in/kashbiotech>

Part-2: People Interviewed

It is not necessary 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.

Bioscientists

Great Indian Scientist



Charaka

(Father Of Indian Medicine)

Charaka, sometimes spelled Charaka, born c. 300 BC was one of the principal

Bioscientists



Great Indian Scientist

Dr. Hargobind Khorana

Dr. Hargobind Khorana was born on 16 January 1912 at Bagpat, Ghazipur district (UP), India. He received his education for the first time really quite in the laboratory in the early twenties. His famous experience was when he helped Dr. Howard Crosby in his research at MIT. He was awarded the Nobel Prize for his discovery of the genetic code and he and his colleagues were awarded the Nobel Prize for the discovery of the genetic code and he and his colleagues were awarded the Nobel Prize for the discovery of the genetic code.

Poly U
Codon

Special Issue



Great Indian Scientist

Dr. Yellapragada Subba Rao

Timeline

- 1885: Born on January 12 in Ghossein, Andhra Pradesh
- 1914: M.A. Madras University, Madras
- 1922: Went to America and did a research in Harvard University
- 1926: Ph.D. from Harvard University
- 1930: Assistant Professor of Chemistry at University of Madras
- 1935: Assistant Professor of Chemistry at University of Madras
- 1940: Director of the Institute of Chemical Technology, Bombay
- 1945: Director of the Institute of Chemical Technology, Bombay
- 1950: Director of the Institute of Chemical Technology, Bombay
- 1955: Director of the Institute of Chemical Technology, Bombay
- 1960: Director of the Institute of Chemical Technology, Bombay
- 1965: Director of the Institute of Chemical Technology, Bombay
- 1970: Director of the Institute of Chemical Technology, Bombay
- 1975: Director of the Institute of Chemical Technology, Bombay
- 1980: Director of the Institute of Chemical Technology, Bombay
- 1985: Director of the Institute of Chemical Technology, Bombay
- 1990: Director of the Institute of Chemical Technology, Bombay
- 1995: Director of the Institute of Chemical Technology, Bombay
- 2000: Director of the Institute of Chemical Technology, Bombay
- 2005: Director of the Institute of Chemical Technology, Bombay
- 2010: Director of the Institute of Chemical Technology, Bombay
- 2015: Director of the Institute of Chemical Technology, Bombay
- 2020: Director of the Institute of Chemical Technology, Bombay

"You're probably never heard of Dr. Subba Rao. By allowing thousands of people to share their

Bioscientists



Great Indian Scientist

Acharya Sir Jagadish Chandra Bose, C.S.I., C.I.E., F.R.S.

(5 November 1864 – 23 November 1937)

was a Bengali polymath, physicist, biologist, botanist, archaeologist, as well as an early writer of science fiction.



Bioscientists



Great Indian Scientist

Acharya Prafulla Chandra Ray

(2 August 1861 – 16 June 1944)

was an eminent Bengali chemist, academician and entrepreneur and the father of Chemistry in modern India.

Bioscientists

Great Indian Scientist

J.B.S. Haldane, FRS

(5 November 1892 – 1 December 1964)

was a British-born geneticist and evolutionary biologist generally credited with a central role in the development of neo-Darwinian thinking. He was also one of the founders (along with Ronald Fisher and Sewall Wright) of population genetics.



British scientist J.B.S. Haldane was born John Burdon Sanderson Haldane in Oxford, England, on November 5, 1892. After studying at the University of Oxford, he went to the University of Cambridge to study for a Ph.D. His work in population genetics, which applied mathematical systems to the combined work of Charles Darwin and Gregor Mendel, was particularly influential in the development of modern evolutionary biology in India where he died in Bombay on December 1, 1964.

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

Bioscientists

Great Indian Scientist

Daulat Singh Kohari

The Architect of Defence Science in India

Daulat Singh Kohari, popularly known as D. S. Kohari, was an outstanding scientist. He was a great administrator. His contribution to the development of Indian science has remained etched in the memory of his students and colleagues. He was a student of the late Dr. B. S. Rao, who is reported to be the architect of defence science in India. He also played an important role in the development of more advanced technologies, notably along with the University Grants Commission and the National Council of Scientific Research and Training. When Dr. Kohari came to IIT Bombay, he had the name and reputation of a great scientist. He was a student of the late Dr. B. S. Rao, who is reported to be the architect of defence science in India. He also played an important role in the development of more advanced technologies, notably along with the University Grants Commission and the National Council of Scientific Research and Training.




The "message" of the teacher is not merely to impart knowledge contained in books which is largely information fast getting out of date. But more than that it should be inspirational, by his/her example, towards the process of character building and the use of knowledge for welfare of the community, the local message to the students, and to the community, is the total life of the teacher.

D. S. Kohari is the former Director of the Institute of Defence Studies and Research, Centre for Defence Studies, New Delhi (October 1988).

Dr. D.S. Kohari with P.M.S. President of the University of Madras 1988

Biotech Express Vol 1 Issue 7

Bioscientists

Great Indian Scientist

Late Shanti Swaroop Bhatnagar

Shanti Swaroop Bhatnagar played a significant part alongside Homi Jethabhai Bhabha, Prafulla Chandra Mahalanobis, Vikram Sarabhai and others in building of post-independent IIT infrastructure and in the formation of Indian science and technology policies. Bhatnagar was the founder Director of the Council of Scientific and Industrial Research (CSIR) which was to later become a major agency for research in independent India. He was the first Chairman of the University Grants Commission (UGC).



I have always been associated with many prominent figures eminent in other ways, but Dr. Bhatnagar was a special combination of many things, added to which was a tremendous energy with an ambition to achieve things. The result was left a record of achievement which was truly remarkable. I can truly say that but for Dr. Bhatnagar you could not have seen today the chain of national laboratories.

Pankaj Jaisankar

Biotech Express Vol 1 Issue 7

Bioscientists

Great Indian Scientist

Kariamanickam Srinivasa Krishnan

Dr. K.S. Krishnan was an scientific figure by opening possibilities into the creation of molecules. One such possibility was provided by his contribution to the discovery of the human virus (C.V. factors) was an immense and great in the field. He was the inventor of an original experimental technique to establish connections between the structural properties of crystals and their thermal stabilities. A third was the discovery of the unique distribution of carriers in crystals. He was also the discoverer of the unique distribution of carriers in crystals. He was also the discoverer of the unique distribution of carriers in crystals. He was also the discoverer of the unique distribution of carriers in crystals.



What is remarkable about Krishnan is not that he is a great scientist but something much more. He is a perfect citizen, a whole man with an integrated personality.

Agath Singh, IISc, Bangalore

Jayshankar Nair

Biotech Express Vol 1 Issue 7

NEWS IN FOCUS

INTERVIEW

Dr. Indu Shekhar Thakur

Dean, School of Environmental Sciences 2015
Jawahar Institute University, New Delhi

BY AARZO NANDAL



The India 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 biofacts and made first hydrocarbon producing bacteria in India.

In an interview with BioTech Express, the Dean of SES, JIU, talks about how to get the start, reveals how "live the way you live" and dreams a mind blowing collaboration.

No where you should give research career and till you reach your goal. I started my MSc in school of U.S.

DEB from JNU later, I joined as Assistant Professor in OIA Field University of Agriculture and Technology Patanjali which is in India. From Australia, Melbourne.

Where do you work and how long have you been working there? I am now working in SES, JIU at Jawahar Institute, New Delhi, India.

Dr. Karthik Chandran

INTERVIEW



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

G. Dr when you started your research career and tell us about your early education. Biofact and other in Environmental Biotechnology from University of Central Florida and then I became a research scientist in Environmental Biotechnology from University of Central Florida.

INTERVIEW



DR. DATTA MADAMWAR

Professor, Head
Faculty of Science
BRD School of Biosciences,
Sardar Patel University,

Dr. Datta Madamwar is a distinguished scientist and researcher in the field of environmental biotechnology. He has worked in various capacities in the field of environmental biotechnology and has made significant contributions to the field. He is currently working as a Professor and Head of the Faculty of Science, BRD School of Biosciences, Sardar Patel University.

Dr. K. SANKARAN

Interview

Centre for Biotechnology & Centre with potential for Excellence in Environmental Science (CPRES), Anna University Chennai



ACADEMIC BACKGROUND
Ph.D, University of Hyderabad
M.S., University of Hyderabad

SCIENTIST WHOSE HEART BELONGS TO INDIA

S M Hadi

Born: October 11, 1946, Agra, India
INDIAN
Department of Biotechnology, Faculty of Life Sciences, Aligarh Muslim University



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. Werner Arber (discoverer of restriction


BioTalk

Talk with Explosive Researcher

The TNT Man

Dr Raj Boopathy

Akash Varma Distinguished Service Professor
John Dooly Endowed Professor in Biological Sciences
Department of Biological Sciences, Nicholls State University
Thibodaux, LA 70310



Dr. Raj Boopathy is a distinguished scientist and researcher in the field of environmental biotechnology. He has worked in various capacities in the field of environmental biotechnology and has made significant contributions to the field. He is currently working as a Professor and Head of the Faculty of Science, BRD School of Biosciences, Sardar Patel University.

INTERVIEW

Prof. K. Muralidhar



Dr. Muralidhar is a distinguished scientist and researcher in the field of environmental biotechnology. He has worked in various capacities in the field of environmental biotechnology and has made significant contributions to the field. He is currently working as a Professor and Head of the Faculty of Science, BRD School of Biosciences, Sardar Patel University.

Technology for Inclusive Innovation - Role of KIIT UNIVERSITY

Integration of Research with Teaching/Learning Process



Integrating the domain knowledge and understanding across the domain is the key to the success of the research. The research should be done in a way that it is not only for the sake of knowledge but also for the sake of the society. The research should be done in a way that it is not only for the sake of knowledge but also for the sake of the society.

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S M Hadi
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Institution: Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University

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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 Sudarshan Biotech Pvt. Ltd.

Dr. Ramareddy's research background was strengthened in the field of Microbiology. He earned his Ph.D. in Microbiology from Ramakrishna University, Mahabaleshwar in 1979. He was graduate with B.Sc. in Chemistry and Biology, A.N.R. College, Godavari, India. Dr. Ramareddy got his M.Sc. in Microbiology from U.P. Agricultural University, Patna, U.P., India (1980). He has received many honors and awards like Government of India, Most Scholarships (1983-1985), American Cancer Society Senior Research Fellowship (1973-1975), Research Career Development Award, National Institutes of Health (1976-1981).

He was appointed in various positions like Associate Professor, Department of Microbiology, School of Medicine, University of Missouri, Columbia, Assistant Professor, Department of Microbiology, College of Physicians and Surgeons, Columbia University, Assistant Research Microbiologist, University of California, San Francisco. He has research career he has published over 110 research papers in reputed journals including Nature and also holds a patent.

He was appointed in various positions like Associate Professor, Department of Microbiology, School of Medicine, University of Missouri, Columbia, Assistant Professor, Department of Microbiology, College of Physicians and Surgeons, Columbia University, Assistant Research Microbiologist, University of California, San Francisco. He has research career he has published over 110 research papers in reputed journals including Nature and also holds a patent.

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Biotech education and coaching special issue...

BIOTECH EXPRESS

ISSN 2542-4044 | E-ISSN 2542-4036

Rs. 475
Volume 5
Issue 58
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?

Dr. Poonam Sharma
Director, Founder, Gyan Bindu Academy Pvt. Ltd.

THE EMERGENCE OF GYAN BINDU ACADEMY WAS SERENDIPITOUS

Interview: Women Entrepreneur Leader

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MADURAI KAMARAJ UNIVERSITY
(University with Potential for Excellence)

School of Biological Sciences

INTERNATIONAL CONFERENCE ON GENOMIC SCIENCES-RECENT TRENDS
CONVENTION OF THE BIOTECH RESEARCH SOCIETY, INDIA AND PHARMACEUTICAL BIOTECHNOLOGY

Prof. Ashok Pandey

DPNI, FRBS, FNASc, FIOBR, FIEES, FAMI

Chief Scientist, CSIR-NIIST
Head, Centre for Biotech & Nanotechnology Division
National Institute for Immunobiology Science and Technology

Interview

Prof. Ashok Pandey's research interests are in the field of immunology, immunogenetics, immunology and biotech. He has received many awards and honors including Padma Bhushan (2010), Padma Shri (2008), and many others. He is a member of several international and national academies.

Ashok Pandey

Country	India
City	Delhi
Address	CSIR-NIIST, Aruna Asan Road, New Delhi-110068, India
Phone	+91 11 2658 2100
Fax	+91 11 2658 2101
Email	ashok.pandey@niist.res.in

Academic Qualification

B. Sc. 1974 Biology, Chemistry, Kargpur University
M. Sc. 1976 Chemistry, Kargpur University
Ph. D. 1979 Microbiology, Alkhalaf University

Professional Experience

1979-82 Post-doctoral Fellow, Max-Planck University
1982-83 Scientist, National Institute of Immunology, Kargpur
1983-86 Scientist, Biotechnology Central Laboratory, Berlin, Germany
1987-88 "Senior" Scientist, National Institute for Immunobiology (NIIST), CSIR, New Delhi

Visiting Scientist: Germany, Italy, France, Greece, UK, Argentina, Spain, Malaysia, Thailand, Ireland, Singapore, Australia, USA, Mexico, Korea, Japan, Switzerland, Singapore, Taiwan, Hong Kong, China and Sweden

Interview

Dr. Ashok Pandey has spent his entire life in research and has a long and successful career. He was a member of Society of India, Agriculture & Environment (SIACE). Among many notable awards he received in India, China, Laureate Award from Government of India, USA for being the highest cited author in Biotechnology (2008-2010) and India.

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Volume 3 Issue 30 January 2018 | Rs. 100

BIOTECH EXPRESS

Sir M S Swaminathan




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

INTERVIEW

"Father of Indian Green Revolution"

N YEAR SPECIAL

Interview



M S SWAMINATHAN FATHER OF GREEN REVOLUTION

Most Prestigious Awards
Padma Shri (1977), Padma Bhushan (1978), Padma Vibhushan (1999)
First World Food Prize

Currently UNESCO - Chairperson Professor in Biotechnology & Chairman, M S Swaminathan Research Foundation (MSRF)

Fellow FRS, NASC, INSA, IASC, AAAS, WIF

BIOTECH EXPRESS | Vol 3 Issue 30 January 2018 | www.editionsbem.com

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."

Under the editorial patronage of this magazine named Public Agricultural Scientist M. S. Swaminathan on the 100th anniversary of his birth anniversary, many awards and honours were conferred on him. He was awarded the Padma Shri (1977), Padma Bhushan (1978), Padma Vibhushan (1999) and the First World Food Prize (1983). He was also awarded the National Science Academy Award (1983) and the National Book Award (1983). He was also awarded the National Book Award (1983) and the National Book Award (1983). He was also awarded the National Book Award (1983) and the National Book Award (1983).

As the magazine editor, we're happy to offer and facilitate Swaminathan Sir's interview to the people. All our best wishes to you for your future work. We will be happy to see you in our magazine in the future. We will be happy to see you in our magazine in the future.



BIOTECH EXPRESS | Vol 3 Issue 30 January 2018 | www.editionsbem.com

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 yourself the interviews we arrange for our readers in Biotech Express Magazine.



TOP SCIENTISTS'

Interviews

BEM

BIOTECH EXPRESS

Stem Cell special Issue of

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BIOTECH EXPRESS

Guest Articles: Stem cells & their status in India, CRISPR: Theory and Technology, News in Focus: Stem Cell Therapy and its Application in India, Startup Stories: What is so unique about SanoStem's Stem cells

Editorial
STEM CELL CRISIS AND NOT THERAPY WOULD BE SUBJECT TO REGULATION - ACCORDING TO HEALTH MINISTRY

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-effective in 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.

We arranged a talk with CEO of India's premier biotech company built on stem cell based technology at Hyderabad, India. She talks about current gaps, regulations and business revenue generation of stem cell industry. Recently govt. has also decided to frame Stem Cell therapy guidelines with high priority to bring it in the purview of health-care industry.

The purpose of this talk is to share the experience of leaders of this niche biotech business and to



Brief profile of founder of Transcell – a stem cell based biotech organization

Dr. Subhadra Dravida is an accomplished scientist and entrepreneur. She is the founder and CEO of Transcell, a stem cell based biotech organization. She has a Ph.D. in Biotechnology from IIT Bombay and has worked in various biotech organizations. She is currently working on stem cell based therapies for various diseases.

She has a rich experience in the field of biotechnology and has worked in various biotech organizations. She is currently working on stem cell based therapies for various diseases.

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.ac.in
- AIIMS www.aiims.edu
- ICGBE, 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.cdrindia.org
- ACBR, Delhi University www.acbrdu.edu
- INU www.inu.ac.in
- Delhi University South Campus www.south.du.ac.in
- NCPQR, New Delhi www.ncpgqrc.in
- National Institute of Tirology www.unipune.ernet.in
- National Chemical Laboratory www.nccl-india.org
- National Botanical Research Institute www.nbri.org
- Central Food Technological Research Institute www.cfdri.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.cofor.nic.in/icfr/fri/fri.html>
- Indian Institute of Chemical Biology (IICB) <http://www.iicb.res.in>
- Indian Institute of Chemical Technology (IICT) <http://www.iict.ac.in>
- Industrial Toxicology Research Centre (ITRC) <http://www.itrcindia.org>
- Institute of Life Sciences <http://www.ils.ac.in>
- Institute of Microbial Technology (IMTECH) <http://www.imtech.res.in>
- Jawaharlar 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 Genetic Resources <http://www.nbgp.ernet.in>
- National Centre for Biological Sciences (NCBS) <http://www.ncbs.res.in>
- National Centre for Plant Genome Research <http://www.ncpgr.ac.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 trade.
- Establishment and award of research scholarships and fellowships.
- Utilization of the results of the research 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 for the 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 journals.

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), Karaikal (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 (CSMCR), 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 37-A, Chandigarh-160036

For the recruitment of research fellows to apply for a walk-in interview on **14.08.2018** (Reporting time 8.00 a.m. to 12 noon) for availing doctoral research at IMTECH under the aegis of the Ph.D. degree program being jointly run by IMTECH and the Jawaharlar Nehru University (JNU), New Delhi.

Qualifications

The candidates who have passed BSc or equivalent any of the following educational qualifications in any discipline of science should apply:
1. B.Sc (Hons) in any of the following disciplines:
2. B.Tech (Engineering) in any discipline
3. M.Tech (Engineering) in any discipline
4. M.Sc (Hons) in any discipline



Established in 1986, the Institute of Microbial Technology (IMTECH) is an autonomous body under the administrative control of the Government of India. It is a premier institution in the field of biotechnology. The Institute provides an area of about 47 acres of which the laboratory area is 25 acres and the residential campus is 22 acres. The Institute has a total of 35 highly motivated young scientists, more than 200 staff members and 1000 students of various Ph.D. with many leading research work of leading biotechnology laboratories.

Biodirectory

The Indian Council of Medical Research (ICMR)



The Council's research priorities coincide with the National health priorities such as control and management of communicable diseases, control of cancer, maternal and child health, control of nutritional disorders, identifying alternative strategies for health care delivery, community studies, public health, systems research and occupational health, promoting research on major non-communicable diseases, identification of environmental, genetic, metabolic and other risk factors and management of chronic, mental health research and drug research including traditional medicines. All these efforts are undertaken with a view to reduce the major burden of disease and to promote health and well-being of the population.

Indian Institutes Covered

Biodirectory

Department of Biotechnology

Department of Biotechnology
Govt. of India

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



The DBT is a part of the Department of Science and Technology (DST). It is an autonomous body under the administrative control of the Government of India. It is a premier institution in the field of biotechnology. The Department provides an area of about 47 acres of which the laboratory area is 25 acres and the residential campus is 22 acres. The Department has a total of 35 highly motivated young scientists, more than 200 staff members and 1000 students of various Ph.D. with many leading research work of leading biotechnology laboratories.

Biodirectory

The Indian Council of Agricultural Research (ICAR)



भारत
ICAR

The Indian Council of Agricultural Research (ICAR) is an autonomous organization under the Department of Agriculture, Research and Extension (DARE), Ministry of Agriculture, Government of India. Formerly known as Imperial Council of Agricultural Research, it was established on 16 July 1929 as a registered society under the Societies Registration Act, 1860 in pursuance of the report of the Royal Commission on Agriculture. The ICAR has its headquarters at New Delhi.

The Council is the apex body for co-ordinating, guiding and managing researches and education in agriculture including horticulture, fisheries and animal husbandry in the country. With 64 ICAR institutes and 55 registered member organisations across the country this is one of the largest entities of agricultural system in the world.

The ICAR has played a pioneering role in ushering farm revolution and subsequent development in agriculture in India through its research and technology development. It has enabled the country to increase the production of foodgrains by 4 times, horticultural crop by 8 times, fish by 9 times, livestock 5 times and milk 17 times, milk 8 times and eggs 17 times since 1948-50, thus making a major impact on the national food and nutritional security. It has played a major role in providing education in higher education in agriculture. It is engaged in cutting edge research in areas and in technology development and its transfer to the farmers and extension workers in the field.

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Biodirectory



The Institute occupies nearly 400 acres of prime land in Bangalore, generously donated by the Maharaja of Mysore in March 1967. 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 unreciprocated in the annals of private philanthropy in India, Tata did not ask 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 ISC still have to ask local residents for directions to the 'Tata Institute', a clear recognition that Jansingh Tata's act of generosity has remained undimmed in public memory, despite the passage of a century.



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.



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).

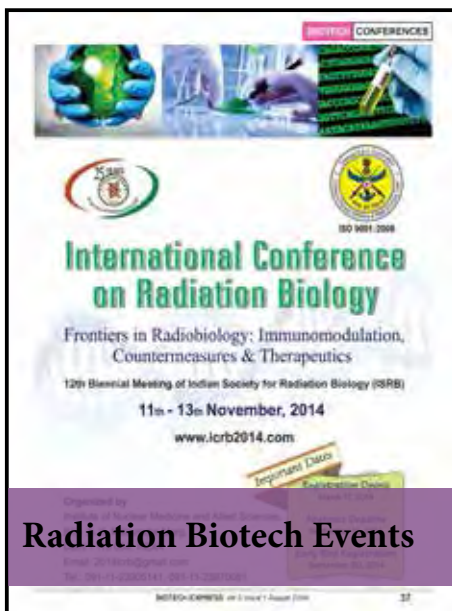
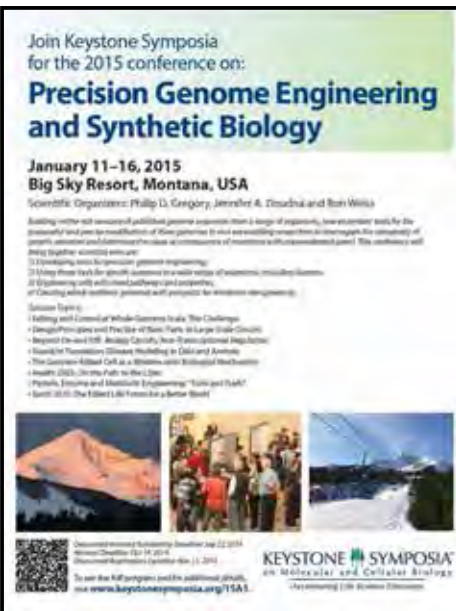
Professor Pandey is Founder President of the Biotech Research Society, India (www.brsi.in); Founder & International Coordinator of International Forum on Industrial Bioprocesses, France (www.ifbiop.org), Chairman of the International Society for Energy, Environment & Sustainability (www.isees.in), Editor-in-chief of Bioresource Technology (<http://ees.elsevier.com/bite/>), Honorary Executive Advisor of Journal of Water Sustainability (<http://www.jwsonline.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

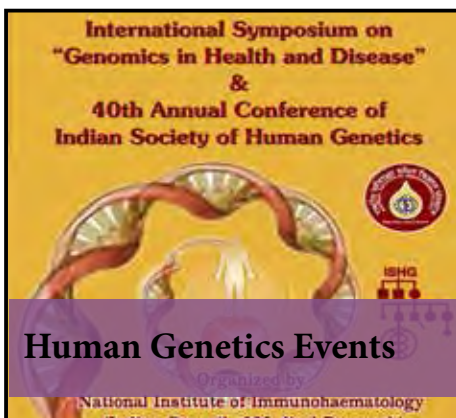
Biotech Express actively promote and participate in events which offers Top meetings schedules in field of BioSciences including Biotechnology, BioEnergy, Genetics, BioPharma, Bioagri, Bioindustry and others. We choose these events very carefully because Our target audience includes high profile community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



Agriculture Biotech Events



Radiation Biotech Events



Human Genetics Events



Glimpse of First India International Science Festival 2015

Dr. Sameer Parag Joshi

Science festivals

The first India International Science Festival (ISF) was organized at New Delhi from Dec 4 to 8, 2015 – a joint event of the Ministry of Science and Technology (DST, DRI and CSIR/ICMR) and the Ministry of Culture – at IIT Delhi. A science and technology fest International Expo was also organized as part of ISF. More than 30,000 delegates and general public were present. Around 250 research papers were presented along with five workshops. Primary sessions held at IIT Delhi where scientists and engineers discussed indigenous technologies and innovations to support nation-building programmes.

Indian Biological Engineering Competition (iBEC)

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
INDIA

CALL FOR PROPOSALS

PRE-EXISTING
Synthetic Biology
Joint Director, Department of Biotechnology, M/s Sci & Tech, Govt. of India, New Delhi

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: Final award ceremony

SYSCON 2016, AIIMS

RECENT ADVANCE & EMERGING RESEARCH STRATEGIES AND INNOVATION

SYSCON 2016 will be held on May 26-27, 2016 at AIIMS. The annual conference of SYS will bring together scientists, academicians, young research scholars and entrepreneurs to exchange ideas and experiences. Our association with ICMR has been added a unique dimension to SYSCON by encouraging school students to display scientific talent. We hope that SYSCON 2016 will fulfil the aim of SYS, to provide a scientific platform for all and all.

Highlights of the conference are:

- Contribution of Basic Science in Health and Disease Development in Translational Research
- Innovations in Biomedical Research

Call for Abstracts

Abstract may submit directly for poster or talk.

Partner Events - AIIMS SYS

Glimpse of AIIMS SYSCON 2016

Prof. S. Gupta, Head of the Department of Pharmacology, ICMR

Prof. C. V. Reddy, Secretary, Dept. of Biotechnology, Govt. of India

Prof. S. F. Subh, Chairperson, Biotechnology Program, AIIMS

Dr. Sangeeta Kataria, Joint Director, Department of Biotechnology, M/s Sci & Tech, Govt. of India, New Delhi

Prof. Pawan K. Ojha, Head, Synthetic Biology Group, School of Biotechnology, IIT, New Delhi

Dr. Sangeeta Kataria, Joint Director, Department of Biotechnology, M/s Sci & Tech, Govt. of India, New Delhi

Prof. Pawan K. Ojha, Head, Synthetic Biology Group, School of Biotechnology, IIT, New Delhi

Dr. Sangeeta Kataria, Joint Director, Department of Biotechnology, M/s Sci & Tech, Govt. of India, New Delhi

Prof. Pawan K. Ojha, Head, Synthetic Biology Group, School of Biotechnology, IIT, New Delhi

1st International Conference on BIORESOURCE TECHNOLOGY for Bioenergy, Bioproducts & Environmental Sustainability

23-26 October 2016
Sitges, Spain

www.bioretec.com

event this October

International Conference on Emerging Trends in Biotechnology for Waste Conversion and XIVth Annual Conference of Biotechnology ETBWC-2017

Important Dates

- Submission of Abstracts (India): 14 April, 2017
- Submission Deadline: 11th August, 2017
- Acceptance Announcement: 21st August, 2017
- Early Bird registration Deadline: 15th September, 2017
- Final Registration: 1st October, 2017
- Conference Dates: 8-11 October, 2017

Biotech Express EVENTS

Category	Fee (INR) before 30th September 2017	Fee (INR) after 30th September 2017
Scientists (BRS) Members	2000	4000
Scientists Non-BRS Members	4000	7000
PhD Scholars (BRS) Members	4500	7000
PhD Scholars Non-BRS	6000	8000
Administrating Member	1000	1000

BioEvents India

Summary Report on BioQuest 2017

BioQuest: Endeavour for encouraging scientific innovation and collaboration

Partner Events

Event Report

A report on XIVth 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.

The event witnessed the presence of some great personalities like Shri Suresh Prabhu - Minister of Industry & Commerce, Govt. of India, Mr. J.P. Rana Rai - Minister of Industries & Commerce, Govt. of Karnataka, Professor Michael Hall - Leader in and on, Biotechnology, University of East Anglia, Dr. Shevagan Analag - Chief Medical Officer, Novartis Pharma USA, Dr. Viji Kumar - Member of the Executive Board, CEO Life Sciences, Merck, Mr. Gregory Reis - Vice Chairman, IIS & Global Life, Science Sector Leader, Insulet, Mr. Sangeeta Reddy - Joint Managing Director, Apollo Hospitals, Mr. Suresh Reddy - President and CEO, Santanbio Healthcare Solutions - GE Healthcare, Mr. Gharsh Pathak - Former Life Sciences MNC, ICMR India and many other notable people.

Partner Events

Partner Events

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.

Partner Events

The event witnessed the presence of some great personalities like Shri Suresh Prabhu - Minister of Industry & Commerce, Govt. of India, Mr. J.P. Rana Rai - Minister of Industries & Commerce, Govt. of Karnataka, Professor Michael Hall - Leader in and on, Biotechnology, University of East Anglia, Dr. Shevagan Analag - Chief Medical Officer, Novartis Pharma USA, Dr. Viji Kumar - Member of the Executive Board, CEO Life Sciences, Merck, Mr. Gregory Reis - Vice Chairman, IIS & Global Life, Science Sector Leader, Insulet, Mr. Sangeeta Reddy - Joint Managing Director, Apollo Hospitals, Mr. Suresh Reddy - President and CEO, Santanbio Healthcare Solutions - GE Healthcare, Mr. Gharsh Pathak - Former Life Sciences MNC, ICMR India and many other notable people.

Partner Events

4th AIST International Imaging Workshop

January 16-21, 2017

The AIST international imaging workshop is a biotechnology conference held at the Biomedical Research Center of AIST, offering a wide range of high-technology for biotech researchers. The workshop provides an excellent training to young biotech researchers. Participants will be highly motivated, hands-on practical experience in the use of the latest imaging technologies.

Partner Events

BEM EVENTS

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.

Partner Events

Partner Events

BEM EVENTS

The conference covered all aspect issues related to bioprocessing in its broader meaning. It also aimed to focus deliberations on development and advancement of sustainable products and viable processes related to food, nutrition, nutraceuticals, pharmaceuticals, renewable energy and chemicals, enzymes, flavors, fragrances, physicochemicals, biogenic structural materials, production, packaging, nutrient fortification, synthetic biology, industrial enzymes, biotransformation, chemical and pyrolytic transformation of biomass, green chemistry, catalytic chemistry, process integration, bioinformatics, biomaterials, biopesticides, natural products of plant, animal or microbial origin, agro-chemicals, biogenic dyes, resins, cross-linkers.

BIOPROCESSING INDIA 2016

BPI 2016

The conference was relevant to a wide spectrum of researchers from diverse disciplines like (but not limited to) biology and biotechnology, synthetic and systems biology, genomics and metagenomics, microbial and metabolic engineering, molecular and computational biology, chemistry, chemical engineering, biomaterials engineering and environmental engineering. Science and major domains of bioprocess-centric discussion aimed at the conference

BEM EVENTS HIGHLIGHTS

"A GREAT PLACE TO MEET PEOPLE IN THE INDUSTRY, TO GET CONNECTED AND TO LEARN ABOUT THE CURRENT TRENDS IN THE MARKET."

Vice President, Xeraya Biologics

Biotech Express Partner Events

INVITED SPEAKERS

Horizons in Biotechnology

Dr. Thiruvalluvar

Dr. Thiruvalluvar, Professor, Government College, Bangalore, India

Dr. Ludo Hernandez

Dr. Ludo Hernandez, Université Saint-Quentin University, Monsiegny le Bretonnais, France

Dr. S. S. Srinivasan

Dr. S. S. Srinivasan, Professor, Indian Institute of Technology, Madras

Dr. S. S. Srinivasan

Dr. S. S. Srinivasan, Professor, Indian Institute of Technology, Madras

Dr. S. S. Srinivasan

Dr. S. S. Srinivasan, Professor, Indian Institute of Technology, Madras

Organizing Committee

Exhibition

International Conference on Horizons in Biotechnology

BRSI award function

Speeches

CULTURAL PROGRAM

Dr. Thiruvalluvar

Dr. Thiruvalluvar, Professor, Government College, Bangalore, India

The annual symposium organized by the Biotech Research Society of India (BRSI) over the years have always been an educative experience and BRSI 2015 was no exception. It saw the participation of experienced and eminent researchers from all over the world working in different domains. The technical presentations by various researchers were very informative and helped in creating new ideas. The opportunity to showcase work carried out by other researchers with their own research, also was provided. The young researchers participated in the poster presentations very enthusiastically and it was very encouraging to see some of the research results which were so innovative.

Both symposiums are always a platform to get to know the status of current work and developments in various fields of our world and BRSI 2015 was no exception.

BIOTECH EXPRESS | Vol 3 Issue 29 December 2015

POSTER SESSIONS

It is a golden opportunity for young and experienced researchers to interact and network with talented scientists. Such discussions ensure the propagation of the research of our world and ensure it is going to the right hands. This also enables to not only work which has already been carried out, but also to explore new areas. It is a chance to see the work of other researchers and to see the results of their own research. It is a chance to see the results of their own research. It is a chance to see the results of their own research.

BIOTECH RESEARCH

BIOTECH EXPRESS | Vol 3 Issue 29 December 2015

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

A new variety of Barley "Mahamansa 113 (HUB-113)" has been developed by the Department of Genetics & Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi in 2018. The variety has passed all the laboratory and field testing formalities on All India Coordinated Trial basis, conducted for several years by the Indian Council of Agricultural Research (ICAR), New Delhi, including DNA Finger printing along with three reference barley varieties namely K-508, HD-2553 and Jyoti. On the basis of its superior performance, the Varietal Identification Committee of ICAR, New Delhi has passed the variety for its release in 2019. This variety will be a boon to barley farmers of North Eastern Plain Zone of India. The variety "Mahamansa 113" has added one more link in the contribution chain of Banaras Hindu University in the field of Indian Agricultural Development, in the humble direction and keen interest of the Director, Professor R. F. Singh and Professor Lal Chand Prasad this variety has reached up to the level of farmer's field of the zone at larger scale.

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

Bionews

Nanoparticles: A Revolution to Biology

Dr. Varun Dewakar and Dr. Seema P. Upadhye

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 in future relied on the application of Bionanotechnology to improve the drug delivery, imaging techniques, biomedical techniques and diagnostics.

Biotech Express Vol 1 Issue 7

Letter to Editor

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

*Aakash Hada, *Andy Ganapati, *Thebansil Jeevaraj, Monica Jolly and *Anshana Sochdev

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

Biotech Express Vol 1 Issue 10

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

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

Entrepreneurship – Still an unexplored area for Indian Biotechnologists

By V. Sri Vijaya*

There is a need to justify the title. Yes, I am aware of the fact that India has many talented brains that cover and patent but I am afraid that it is a very scarce practice considering the total population. India is yet to explore its vast human resources and development (HRD) is a key area. Let us explore our resources in Biotechnology in our own South region. For instance, the education system is so complex that a better biotechnology student has had knowledge regarding every subject but not able to accomplish each and each. It is very healthy to be dependent on an external source for employment. The HRD, the life innovation, entrepreneurship are considered by students. It is always follow your interest even at an age of 22.

The basic fact in Biotechnology is a tool for entrepreneurs. They can start their firm which we call as MSME (Micro, Small and Medium) enterprise. All you need is an idea and execution. This is how you have to go about entrepreneurship.

- Before investment was an absolute but now with availability of loans from banks, one can start an industry.
- Their investment thing is to have a faithful partner who would work closely with you for development of your firm.
- Before you venture about an idea, well as a biotechnologist, do I really need to extend you about the life of a biotechnologist. "Entrepreneurship?"
- Entrepreneur is not just wine or beer, it is more than that. The list of 125 successful products is given at the end.
- You need to register their company name/brand name/which would be your trademark (patent trademark) and a unique trade name.
- After the company is registered, open a bank account exclusively for your firm so that all transactions regarding business are done through it.
- When you decide an idea, for instance, think about various possibilities of making things using easy ingredients to make your recipe or alternative which are cheaper than the existing ingredients.
- Always remember to produce quality and good taste in case of food items in long run only quality will save you costs.
- Buy equipment, look for space, start with a small batch.
- Have patience and wait for at least 6 months to observe market trends and competitors if any.
- One need not always start a new line when it comes to business but it could be either new or that business or an amended product (Zig Zagging is a brand name which is not available in southern, west and eastern parts of India - you can go ahead if you are experienced for adding new ingredients or variations of products).
- Once you are set with your product, start proper packaging and marketing.
- Packaging should ensure quality of product for specific period of time.
- Be honest while marketing about quality of product.
- Marketing is very crucial, step to any business. It basically needs your product with a picture.
- Factors to be considered and discussed - to employ a good marketing officer and offer a percentage instead of salary.
- Factors to be considered and discussed - to employ a good marketing officer and offer a percentage instead of salary.
- Don't argue, and listen over discussion to customers.
- Do your own business in time.
- Disput your firm slowly.

There you go you and your family on a branch of friends in a best friend would be sufficient for you to start up. Yes, there's still a job but provide a job to others because you are a BIOCHEMIST/BIOTECH!

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

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Letter to Editor

Zebra Fish (Danio rerio) As Model Organism

Asish Das, Bio-Teacher
Government College,
Dibrugarh, Assam, India
Email: asishdas@gmail.com

The zebrafish (*Danio rerio*) is a small tropical freshwater fish which lives in rivers of southern India, southern Pakistan, Nepal, and Nepal in South Asia. Due to its small size and ease of culture, the zebrafish has become a favorite model organism for biological studying and genetic development. This fish belongs to genus by the presence of stripe in its body. Adult zebrafish measured only 4-6 cm in length.

Zebrafish organisms are in the vertebrate and are non-mammalian vertebrate that possess high level of conservation genetic sequence. Zebrafish organisms are very helpful to understand fundamental processes of cells growth and division, how molecules work and how organisms sense and sense. By studying model organisms, scientists are learning more about how the brain functions and what areas influence the results. Zebrafish is a very useful model organism for studying the role of various genes in the development of the brain. Zebrafish is a very useful model organism for studying the role of various genes in the development of the brain. Zebrafish is a very useful model organism for studying the role of various genes in the development of the brain.

Model organisms

There are many organisms that can be used as model organisms such as the fruit fly and nematode worm. These organisms are used as model organisms for studying the role of various genes in the development of the brain. Zebrafish is a very useful model organism for studying the role of various genes in the development of the brain. Zebrafish is a very useful model organism for studying the role of various genes in the development of the brain.



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Biotech news

The end of an era of Congress and the rise of a new era of BJP. The end of an era of Congress and the rise of a new era of BJP. The end of an era of Congress and the rise of a new era of BJP.

WHAT SHOULD BE DONE BY MODI SARKAR FOR INDIAN BIOTECHNOLOGY?????

By Dr. K. Srinivas Reddy, Entrepreneur and Government Officer

As Modi has taken over the reins of power, it is a great time to look at the state of Indian biotechnology. The government has a lot of work to do to support the growth of the industry. The government has a lot of work to do to support the growth of the industry. The government has a lot of work to do to support the growth of the industry.



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Biotech news

Let's MODIFY INDIA

Dr. K. Srinivas Reddy

Biotechnology is a key area for India's growth. The government has a lot of work to do to support the growth of the industry. The government has a lot of work to do to support the growth of the industry. The government has a lot of work to do to support the growth of the industry.



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ACTIVITY BIO

Polymerase chain reaction (PCR)

Dr. K. Srinivas Reddy

PCR is a powerful technique for amplifying DNA. It is used in many applications, including forensic science, medical diagnosis, and genetic testing. PCR is a powerful technique for amplifying DNA. It is used in many applications, including forensic science, medical diagnosis, and genetic testing. PCR is a powerful technique for amplifying DNA. It is used in many applications, including forensic science, medical diagnosis, and genetic testing.



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BIOTECH FUTURE

Future of Biological Sciences

Dr. K. Srinivas Reddy

The future of biological sciences is bright. With advances in technology and research, we are uncovering the secrets of life. The future of biological sciences is bright. With advances in technology and research, we are uncovering the secrets of life. The future of biological sciences is bright. With advances in technology and research, we are uncovering the secrets of life.



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ACTIVITY

NUTRIGENOMICS: NUTRITIONAL CONTROL ON GENE EXPRESSION

Hemant and Anurag, Biotech Express 2018
Department of Veterinary and Animal Sciences, College of Agriculture & Fisheries, Himachal Pradesh Veterinary, Animal and Fisheries Sciences University, Himachal Pradesh, India. Corresponding email: hemant@vetu.aphu.edu.in

ABSTRACT
Nutrition has the most important impact on human health. The nutrients that we eat and how we eat them have a profound effect on our health. The gut microbiome is a complex community of microorganisms that live in our gut. It plays a key role in our health and is affected by diet. Nutrients can affect the composition and function of the gut microbiome. This in turn affects gene expression and metabolism. This article discusses the relationship between nutrition, the gut microbiome, and gene expression. It also discusses the potential applications of nutrigenomics in personalized medicine and disease prevention.

KEY WORDS: Nutrition, Gut Microbiome, Gene Expression, Metabolites

INTRODUCTION
The gut microbiome is a complex community of microorganisms that live in our gut. It plays a key role in our health and is affected by diet. Nutrients can affect the composition and function of the gut microbiome. This in turn affects gene expression and metabolism. This article discusses the relationship between nutrition, the gut microbiome, and gene expression. It also discusses the potential applications of nutrigenomics in personalized medicine and disease prevention.

GUEST ARTICLE

Innovative Research on Water Hyacinth utilization in India

If it has been estimated that of any given piece of land more than 1 lakh tonnes of water hyacinth is produced in our country are either left to rot in the water or are used as a source of organic fertilizer. This excessive growth and rotting causes serious damage to the aquatic ecosystem all over the world. The water hyacinth is a fast growing aquatic weed, which is a major problem in India. It is a major source of organic fertilizer and is used in various ways. This article discusses the innovative research on water hyacinth utilization in India. It also discusses the potential applications of water hyacinth in various fields.

Dr. S. Srinivasan, Director of the National Institute of Aquaculture, Pondicherry.

GUEST ARTICLE

Soil enzymatic activity: A vital tool for soil quality assessment

Soil enzymatic activity is a key indicator of soil health and is used to assess soil quality. It is a measure of the biological activity in the soil and is affected by various factors. This article discusses the importance of soil enzymatic activity in soil quality assessment. It also discusses the various methods used to measure soil enzymatic activity and the factors that affect it.

GUEST ARTICLE

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

M.S. Shrivastava, S.S. Mishra, M.P. Patel, P.A. Saha and S.S. Sanyal
Department of Food and Nutrition Technology, College of Fisheries, Indian Veterinary, Animal and Fisheries Sciences University, Himachal Pradesh, India. Corresponding email: ms@vetu.aphu.edu.in

Abstract:
Gamma irradiation is a non-thermal method of food preservation. It is used to kill microorganisms and to extend the shelf life of food. This article discusses the use of gamma irradiation for dry fish preservation. It also discusses the various factors that affect the effectiveness of gamma irradiation and the potential applications of gamma irradiation in food preservation.

Keywords: Gamma irradiation, Dry fish, Food preservation, Shelf life

How to submit articles in Biotech Express Magazine

Editorial

Science and Religious myths- can they coexist?

Religious myths are stories that are passed down from generation to generation. They are often used to explain natural phenomena and to teach moral lessons. This article discusses the relationship between science and religious myths. It also discusses the various ways in which science and religion can coexist and the potential benefits of this relationship.

Keywords: Science, Religious myths, Coexistence, Education

We cover Articles of Major Fields:

BIOPHARMA BIOAGRI BIOINFORMATICS MANUFACTURERS BIOSUPPLIERS

Cover Special

Green Revolution: A war between Hunger and self sustainability

Frank James

History of Green Revolution
The Green Revolution was a period of rapid agricultural growth and technological change that began in the 1940s and 1950s. It was characterized by the use of high-yielding crop varieties, chemical fertilizers, and irrigation. This article discusses the history of the Green Revolution and its impact on the world's food supply.

What is Green Revolution?
The Green Revolution is a period of rapid agricultural growth and technological change that began in the 1940s and 1950s. It was characterized by the use of high-yielding crop varieties, chemical fertilizers, and irrigation. This article discusses the history of the Green Revolution and its impact on the world's food supply.

Components of Green Revolution
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Cover Special

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

Nitin Wadgaonkar, Anil K. Mishra and Anil K. Mishra
Department of Food and Nutrition Technology, College of Fisheries, Indian Veterinary, Animal and Fisheries Sciences University, Himachal Pradesh, India. Corresponding email: nitin@vetu.aphu.edu.in

Introduction
Genetically Modified Organisms (GMOs) are organisms whose genetic material has been altered in a way that does not occur naturally. This article discusses the pros and cons of GMOs and the potential risks associated with their use.

Cover Special

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

Manish Bhatnagar

Agriculture in India
Agriculture is the backbone of the Indian economy and is a major source of food and employment. This article discusses the current state of agriculture in India and the potential applications of plant biotechnology in improving agricultural productivity and sustainability.

Carrier in Plant Agri-Biotechnology
Plant biotechnology is a rapidly growing field that has the potential to revolutionize agriculture. This article discusses the various applications of plant biotechnology in agriculture and the potential benefits of this technology.

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

By Kiran Zota

Introduction

The Indian pharmaceutical market is the third largest in terms of volume and the sixth largest in terms of value. It is expected to grow at a CAGR of 10.5% over the next five years. India is the largest provider of generic drugs globally with the Indian government supporting the growth of pharmaceutical industry.

Indian pharmaceuticals are a mix of generic drugs and branded drugs. The Indian government has a policy of supporting the development of generic drugs. The Indian government has a policy of supporting the development of generic drugs.

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www.biotechindia.com

Guest Article

Regenerative Medicine

By Kiran Zota

Introduction

Regenerative medicine is a branch of medicine that uses biology to repair the damaged tissues and organs to restore their proper functioning in the body. Though the body possesses the ability to heal the damaged parts of the body, but this natural process is a pretty slow one. Regenerative medicine promises to heal the damaged tissues and organs in an accelerated way.

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Student Zone

Zika Virus

Komal Kumar



The Zika virus, like other mosquito-borne viruses such as dengue, is relatively unknown and unexplored. This is not to say that Zika virus spreading through Latin America and the Caribbean, has been associated with an alarming rise in babies born in Brazil with abnormal brain and spine defects – a condition called microcephaly.

The Zika virus is a mosquito-borne virus that causes illness in humans. It is a member of the flavivirus family. The virus is spread by mosquitoes and can also be transmitted from mother to child during pregnancy.

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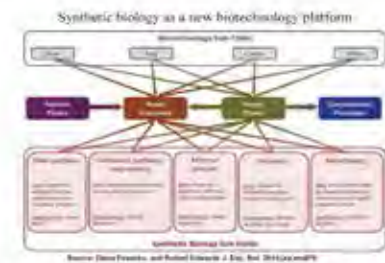
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Guest Article

Plant synthetic biology – a new paradigm

Submitted by Nandini Khosla & Ravi Bharadwaj
Senior Institute of Biotechnology, Anna University, Chennai, Gujarat – 38117



Synthetic biology is an interdisciplinary approach to the field of engineering biology research. It is mainly defined as the design and construction of new genetic circuits or devices and/or the designing of existing biological systems from entirely different genetic circuits to perform desired functions. Like other parts and processes, synthetic biology assembly quantitative defined parts from complex biological systems to produce desired biological functions and genetic circuits. It would also be applied in various applications and areas like healthcare, with artificial intelligence and biotechnology, so there will be further possibilities of achieving scientific goals. Synthetic biology has created a synergy with artificial intelligence. It may not only help to create single cell organisms, but also create more complex organisms like bacteria, yeast, and plants. Synthetic biology has the potential to be used in various ways, such as in the production of chemicals and materials in the future. With the development of synthetic biology, it is expected to be an important approach to facilitate in overcoming the challenges of providing food and energy from limited natural resources.

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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 Foreign authors.
Pitfalls in research papers.
Open access

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

Articles Covered

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.

News In Focus

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

April 15, 2018 | Dr. Rajendra Prasad, President, Indian Academy of Sciences

In a landmark discovery, researchers from the University of Hyderabad have shown that...
The authors of the study are Dr. Rajendra Prasad, Dr. Anand Kumar, Dr. Anand Kumar, Dr. Anand Kumar...



Dr. Rajendra Prasad

Alzheimer's and Parkinson's diseases are the two most common neurodegenerative...
The authors of the study are Dr. Rajendra Prasad, Dr. Anand Kumar, Dr. Anand Kumar, Dr. Anand Kumar...

OPINION

What is a world class educational institution?

Reprinted from article written by M.N. Gupta

Somewhere we have heard about the educational system and educational institutions...
This is not a topic which can be argued in the level of breaking news or different countries...

I teach at IIT Delhi. I do every Indian university, I have also spent some time in other institutions, both national (IISc, Bangalore, AIIMS, New Delhi) and outside India (MIT, USA; University of Technology of Canada; France; Lund University, Sweden and University of Minnesota, USA). I have often wondered what is a great educational institution and how do we establish one in India...

The Indian education system has the best of both worlds. It has the best of the world's educational system...
The Indian education system has the best of both worlds. It has the best of the world's educational system...

Editorial

Robinhood of Science Research SCI - HUB

Dr. Pratik Kumar, PhD Fellow, CSIR-IGIB, Gurugram

Image showing the Sci-Hub interface with a search bar and a list of articles. Text overlay: 'How often does a research scholar view the options shown in the given figures?'
BioRxiv Express team is sure that these figures would elicit the same sentiments from research scholars across the world...

Guest Article

Sci-hub: A Boon for the Scientific World

Dr. Pratik Kumar, PhD Fellow, CSIR-IGIB, Gurugram

Image showing a person looking at a computer screen displaying the Sci-Hub website. Text overlay: 'SCI-HUB: A Boon for the Scientific World'
A report shows worldwide downloads of research articles through Sci-Hub have increased by 10% in the first quarter of 2018...

Opinion

Metabolic Engineering: A Promising Tool for Effective Utilization of Bioresource

Dr. Pratik Kumar, PhD Fellow, CSIR-IGIB, Gurugram

Diagram showing the metabolic pathway from substrate to product. Text overlay: 'Metabolic Pathway'
Understanding the regulation of metabolic pathway through Genetic, Proteomic and Metabolomic analysis...
Isolation and characterization of gene of interest and transport of thereof in host cell...
Overexpression/knockdown of metabolic gene for manipulation of desired metabolite...
Characterization of novel metabolic metabolite...

Views

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

Dr. Pratik Kumar, PhD Fellow, CSIR-IGIB, Gurugram

Green tax is a tax levied on the emission of greenhouse gases. It is a sustainable option to mitigate air pollution...
The green tax is a tax levied on the emission of greenhouse gases. It is a sustainable option to mitigate air pollution...

OPINION

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

Reprinted from article written by M.N. Gupta

The birth of a new discipline in science is a double-edged sword. It is a source of new knowledge...
The birth of a new discipline in science is a double-edged sword. It is a source of new knowledge...

Views

Towards an 'Open-Access' Future

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

The Open Access (OA) movement is the result of the fact that the public has a right to know...
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Editorial

Facts About OPEN ACCESS

What are open access journals?
Open access (OA) journals are scholarly journals that can be accessed by readers without any financial or legal barriers...
What are the benefits of open access journals?
Open access journals provide a wide range of benefits to authors, readers, and society...

Guest Article

Self Healing Polymers An Innovative Boon for Longevity of Products

A. Senthil Kumar, IIT Madras, India

The use of self-healing materials can extend the life of products that would require the replacement and repair of the product for a long period of application. One of the self-healing agents is an epoxy resin that has been used as a base in paint industry, aerospace industry, concrete industry, polymers and composite polymers made as well.



Fig. 1. The mechanism of self-healing of epoxy resin

As epoxy resin is a thermosetting material, it is not possible to repair the damaged area after the curing process. However, the use of self-healing epoxy resin can overcome this problem. The self-healing epoxy resin can be used in a wide range of applications. It can be used in the form of a coating, a adhesive, a resin, or a composite material. It can also be used in the form of a self-healing polymer.

OPINION

The pain and pleasure of reviewing research articles

Most of us have experienced the pain of reviewing research articles. It is a tedious and often frustrating task. The reviewer has to read the entire article, understand the methodology, and evaluate the results. This is often done in a short period of time, which can be very stressful.



The reviewer's role is to provide a critical and objective assessment of the research. This is a difficult task, as the reviewer has to balance the need for scientific rigor with the need for fairness. The reviewer must also provide constructive feedback to the author.

Guest Article

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

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



It is a great honor to write a tribute to a man who has inspired millions of people. Dr. A. P. J. Abdul Kalam was a visionary leader and a dedicated scientist. He was a role model for all of us. His life and work continue to inspire us to this day.

Dr. Kalam's legacy lives on through his work and his teachings. He was a man of integrity and honesty. He was a man who cared for the people. He was a man who believed in the power of education and hard work.

Guest Article

Bioplastic

An approachable way to manage white pollution

Sankar Kumar, P. K. Prudhviraj, Rajendra Prasad and Rama Reddy

White pollution is a major environmental problem. It is caused by the use of plastic products. These products are not biodegradable and can persist in the environment for a long time.

Introduction

White pollution is a major environmental problem. It is caused by the use of plastic products. These products are not biodegradable and can persist in the environment for a long time. Bioplastics are a promising solution to this problem. They are made from renewable resources and are biodegradable.

COVER ARTICLE

Selling to Life Scientists PART 1 PHD TO TECHNICAL SALES

Article written by: Mandar P. Chitambar, PhD, Senior Product Marketing Specialist, Research & Development, Sanofi



Many times you will see people who have a PhD in a technical field and are looking for a career change. This is often a good idea. Technical sales is a challenging and rewarding career. It allows you to use your technical skills in a new way.

COVER ARTICLE

6. Don't leave them when they need help. 7. Don't be rigid, Be Flexible. It is important to be flexible in your work. This allows you to adapt to changing circumstances. It also allows you to work more effectively with your colleagues.

Selling to Life Scientists PART 2 Mistakes One Should Avoid

It is important to avoid common mistakes when selling to life scientists. These mistakes can be costly and can damage your reputation. Avoiding these mistakes is key to success in this field.

COVER ARTICLE

It is important to be flexible in your work. This allows you to adapt to changing circumstances. It also allows you to work more effectively with your colleagues. Flexibility is a key skill for success in the workplace.

DO WE REALLY APPRECIATE AND SUPPORT INNOVATION?

It is important to appreciate and support innovation in the workplace. Innovation is the key to success in a competitive market. Encouraging innovation can lead to new products and services.

COVER ARTICLE

It is important to be flexible in your work. This allows you to adapt to changing circumstances. It also allows you to work more effectively with your colleagues. Flexibility is a key skill for success in the workplace.

It is important to appreciate and support innovation in the workplace. Innovation is the key to success in a competitive market. Encouraging innovation can lead to new products and services.

GUEST ARTICLE

The Emergence of Zika Virus (ZiV): Indian perspectives

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

Introduction

Zika virus (ZiV) is a mosquito-borne flavivirus that causes Zika fever. It is a member of the Flaviviridae family, which also includes dengue, yellow fever, and chikungunya viruses. The virus was first identified in 1947 in a rhesus monkey in the forest of the Rockefeller Foundation, Uganda. It was later found to cause illness in humans in 1952 in Nigeria.

Current scenario of Zika Virus (ZiV) outbreaks: It has been reported that ZiV has spread to more than 100 countries in Africa, Asia, and the Americas. In India, the first case was reported in Kerala in 2016. The virus is now spreading to other parts of the country.

Research done so far: Several studies have been conducted to understand the epidemiology and clinical manifestations of ZiV. It is found that the virus is transmitted by the Aedes mosquito.

Conclusion: ZiV is a new emerging infectious disease that poses a significant public health challenge. Further research is needed to understand the virus better and to develop effective control strategies.

GUEST ARTICLE

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.

Currently there are some reports that Carica papaya leaf extract has been found to be helpful in dengue patients. It is found 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.

It is known that untreated dengue fever can be fatal. However, the use of papaya leaf extract has been found to be helpful in dengue patients. It is found 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.

Conclusion: The use of papaya leaf extract is a promising treatment for dengue fever. Further research is needed to understand the mechanism of action of the extract.

EDITORIAL

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



Microbes play a crucial role in the bioremediation of heavy metal contaminated soils. The application of soil-plant-microbe interactions can be used for the eco-restoration of mining areas. This involves the use of plants and microorganisms to extract and immobilize heavy metals from the soil.

GUEST ARTICLE

Marketing Indian Science

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

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.

We always talk about these major challenges for Indian researchers. It is found that the productivity of Indian science is low compared to other countries.

Conclusion: There are several reasons for the low productivity of Indian science. It is found that the productivity of Indian science is low compared to other countries.

GUEST ARTICLE

Genome Editing – A Boon for Agriculture

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

The greatest genetic editing technology is CRISPR-Cas9. It is a bacterial immune system that has been adapted for genome editing. CRISPR-Cas9 allows for precise and targeted editing of the genome, which can be used to improve crop yields and resistance to diseases.

Conclusion: CRISPR-Cas9 is a powerful tool for genome editing. It has the potential to revolutionize agriculture by improving crop yields and resistance to diseases.

Guest Article

Introduction to Bioinformatics in Ichthyology

Bioinformatics is a multidisciplinary field that combines biology, computer science, and statistics. It is used to analyze and interpret biological data. In ichthyology, bioinformatics is used to study the genetics and evolution of fish.

Conclusion: Bioinformatics is a powerful tool for studying fish. It has the potential to revolutionize ichthyology by providing insights into the genetics and evolution of fish.

Guest Article

Stain DNA, but not the living cell

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

Introduction: DNA staining is a common technique used to visualize DNA. However, it is important to note that DNA staining does not kill the living cell. This is because the staining agents do not penetrate the cell membrane.

Conclusion: DNA staining is a safe and effective technique for visualizing DNA. It does not harm the living cell.

Guest Article

The Emergence of Ebola Virus

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

Introduction: Ebola virus is a highly infectious and deadly virus. It is found in several parts of Africa. The virus is transmitted through contact with the blood or body fluids of an infected person.

Conclusion: Ebola virus is a serious public health threat. It is important to take steps to prevent the spread of the virus.

Guest Article

CRISPR-Cas; A potential technique for crop improvement

Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti, Dr. S. S. Chakravarti

Introduction: CRISPR-Cas is a powerful tool for genome editing. It has the potential to improve crop yields and resistance to diseases. This is because CRISPR-Cas allows for precise and targeted editing of the genome.

Conclusion: CRISPR-Cas is a promising technique for crop improvement. It has the potential to revolutionize agriculture by providing insights into the genetics and evolution of crops.

Editorial

Protein Misfolding- A Reason for Neurodegenerative diseases

Dr. Anand Kumar

It is widely known that quality of proteins through molecular chaperones, as well as in good conditions...

Editorial

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

Dr. Parvath Kumar, Anand Institute of Biotechnology, Madurai

From a computer in the laboratory, the traditional smartphone has a high-end device for the health...

Editorial page with image of a person using a smartphone and text about blood glucose monitoring. Includes text: 'The hand-held blood glucose monitor allows people with insulin-dependent diabetes to manage the blood glucose levels...'

GUEST ARTICLE

Modern scenario in the field of genome editing technology

Manoj Kumar, School of Biotechnology, Bharathiar University, Coimbatore, India

The genome is made of an organized and complexed DNA that holds a lot of information...

Guest Article section with image and text: 'The genome is made of an organized and complexed DNA that holds a lot of information...'

GUEST ARTICLE

Modern path in the process of drug discovery

Manoj Kumar, School of Biotechnology, Bharathiar University, Coimbatore, India

Drug has become an essential part of life for most people. People are dependent on these drugs...

Column section with image and text: 'Biochar - our saviour to help us win over the great toxic game? Children should not be forced to give away some of their best functions just because they may not be able to use pesticides...'

Editorial section with image and text: 'Antibiotic Resistance: Indian Perspective. Antibiotic resistance (AR) is a serious global challenge. The first report on AR was found in 1929...'

Guest Article section with image and text: 'CLIMATE CHANGE AND ROLE OF BIOTECHNOLOGY IN AGRICULTURE. Agriculture and Climate change are intertwined in each other's path of which takes place on a global scale...'

REVIEW ARTICLE

Application of pectinase enzymes from Bacillus in industries: A Review

Aparajita Dasgupta, Apurba K. Dasgupta, S. S. Ghosh, S. S. Ghosh

Abstract: Pectinase enzymes are widely used in various industries... The review covers the applications of pectinase enzymes in various industries...

Abstract

Many industries are using pectinase enzymes... The review covers the applications of pectinase enzymes in various industries...

BioColumn

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

Dr. ... Psychotherapy turns out to be a complementary medical treatment for cancer patients! ... The review discusses the benefits of psychotherapy for cancer patients...

Guest Article

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

Yashraj Kumar, S. Prasad, Rajendra Prasad, Mahesh K. Shukla

Abstract: Climate Smart Rice (CSR) is a new approach to rice production... The review discusses the benefits of CSR in boosting food security...

Climate Smart Rice (CSR) is a new approach to rice production... The review discusses the benefits of CSR in boosting food security...

BioColumn

Flying Proposals

HARSHITA DIXIT, Amalika@biotechexpress.com

Songbirds (80% of species) are known for their social singing practice... The review discusses the social singing practice of songbirds...

Abstract: Songbirds (80% of species) are known for their social singing practice... The review discusses the social singing practice of songbirds...

BioColumn

The experiment consisted of three tests, procedure, namely getting, output and recycling... The review discusses the experiment results...

Advertisement for the 10th Annual Meeting of the Indian Association of Biotechnology (IABT) 2017, held from July 23rd-28th, 2017 in Pattadak, Karnataka, India.

Abstract: The experiment consisted of three tests, procedure, namely getting, output and recycling... The review discusses the experiment results...

Editorial

GST IMPLICATIONS IN BIOPHARMA SECTOR OF INDIA AND WORLD

GST is the largest product tax levied in the country's Pharmaceutical Industry... The review discusses the implications of GST in the biopharma sector...

Opinion

The GST reform: Will it cost us our Health?

Dr. Suman Singh & Dr. Suman Lal Gupta

GST is being implemented in India and will impact a number of industries... The review discusses the impact of GST on the health sector...



Abstract: GST is being implemented in India and will impact a number of industries... The review discusses the impact of GST on the health sector...

GUEST ARTICLE

Veterinarians in Mainstream Biomedical Research: A need of the hour

Abstract: Veterinarians in Mainstream Biomedical Research: A need of the hour... The review discusses the role of veterinarians in biomedical research...

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BioColumn

Welcome to the world of deceitful memory...

Abstract: Welcome to the world of deceitful memory... The review discusses the concept of deceitful memory...

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Short Article on Genetically Modified Mosquitoes in Disease control

Sumit Chhabra* and U.S. Anand*
*M.S. Patil Institute of Engineering, Technology, and Health, India

Of all disease transmitting insects, mosquitoes are considered one of the most dangerous creatures on planet because of their ability to spread deadly diseases. The United States Center for disease control reports it kill more than one million people annually just through transmission of mosquito borne diseases. The deadly disease transmitted by mosquitoes include Dengue fever, Malaria, Yellow fever, West Nile Virus, Zika Virus and Chikungunya. Malaria is endemic in 91 countries with about 40% of the world's population at risk. 500 million cases occur each year and 80% of incidence is found to occur in Africa. 2.7 million mortality rates has been reported annually. Dengue is the next world's most important mosquito borne viral disease with 70 million cases annually in more than 100 countries. 2500 million people are at risk of infection worldwide.

Genetically modified mosquitoes (GMMs) are considered one of the most promising tools for disease control. GMMs are genetically modified to be unable to transmit disease. They are released into the wild to mate with wild mosquitoes. The wild mosquitoes then produce offspring that are unable to transmit disease. This process is called gene drive. The first GMM was released in 2010 in a field trial in the United States. It was a female mosquito that was genetically modified to be unable to transmit dengue virus. The GMM was released in a field trial in the United States in 2010. It was a female mosquito that was genetically modified to be unable to transmit dengue virus. The GMM was released in a field trial in the United States in 2010.

Editorial

BIODIVERSITY IN INDIAN SCENARIO

Dr. Suresh Kishor Gupta

Biodiversity or Biological diversity refers to the variety, variability and complexity of living organisms. It changes with time and space. It includes diversity within species (genetic diversity), between species (species diversity) and between ecosystems (ecosystem diversity).

India is one of the richest countries in terms of Biodiversity. The Biological diversity Act 2002 is most important of all acts by enshrining the conservation, protection of forests and wildlife has been made one of the fundamental duties. Success in population, urbanization and industrialization etc. are taking place often at the cost of destruction of habitats. Therefore preserving the loss of Biodiversity is important for mankind as human depend on nature for everything.

According to the Strategic Plan for Conservation of Biological Diversity - Global Strategy, Biological Diversity Convention, India is one of the 192 countries that have signed the Convention on Biological Diversity. India is one of the 192 countries that have signed the Convention on Biological Diversity. India is one of the 192 countries that have signed the Convention on Biological Diversity.

- 1. Environmental and developmental degradation of Biodiversity Conservation.
- 2. Environmental degradation.
- 3. Environmental degradation.
- 4. Environmental degradation.

Editorial

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

Amit Prasad Singh, Mithun Choudhary

Introduction
The biotechnology world is constantly in flux. The changes in the industry are not only in the technology itself but also in the way it is being used. The industry is constantly evolving and the changes are not only in the technology itself but also in the way it is being used. The industry is constantly evolving and the changes are not only in the technology itself but also in the way it is being used.

Recent IAS International Council has passed a resolution regarding the use of biotechnology. The resolution is a landmark one as it is the first time that the world's leading biotechnology organizations have agreed to a common set of principles. The resolution is a landmark one as it is the first time that the world's leading biotechnology organizations have agreed to a common set of principles.

In this article I am presenting from a detailed survey of recent and future biotechnology with a focus on the environmental and human and what new opportunities biotechnology will offer. The article is a report of India's renowned biotech coachings like Pathfinder and Grassroot academy. In this report, I have compiled some important information which students can use to make important decision while selection of best coachings to get desired results.

Editorial

The 2016 Scientific American Biotech Worldview Overall Scores

Rank	Country	Genetically Modified Crops	Gene Editing	Personalized Medicine	Bioprinting	Artificial Intelligence	Regenerative Medicine	Space Biotechnology	Other
1	USA	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
2	China	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
3	India	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
4	UK	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
5	Japan	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
6	France	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
7	Germany	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
8	Italy	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9	Spain	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10	Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Research Article

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

A.P. Singh* and S. S. Singh*
*Department of Microbiology, Gurukul Kangri University, Haridwar, India

Abstract
The plant growth promoting traits of *Bacillus subtilis* isolated from the roots of *Zea mays* were studied. The study was conducted to identify the plant growth promoting traits of *B. subtilis* isolated from the roots of *Zea mays*. The study was conducted to identify the plant growth promoting traits of *B. subtilis* isolated from the roots of *Zea mays*.

ABSTRACT
The study was conducted to identify the plant growth promoting traits of *B. subtilis* isolated from the roots of *Zea mays*. The study was conducted to identify the plant growth promoting traits of *B. subtilis* isolated from the roots of *Zea mays*. The study was conducted to identify the plant growth promoting traits of *B. subtilis* isolated from the roots of *Zea mays*.

INTRODUCTION

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Editorial

Should India stop experimenting GM Food crops?

By Kamal Prasad Singh

India is the second largest nation in terms of population, and seventh largest in terms of area which enable us to think toward more production on available resources. India is agriculture based economy and more than half of population depends on agriculture for living. Biotechnology in this scenario provides us an option to increase agriculture yield on available area, but are we prepared to bring paradigm shift? This looks difficult after analyzing current situation of GM food crops. However this is not new, earlier we scientists developed GM Bt maize, but it was put on hold by regulatory bodies unlike Bt Cotton. So what we need to do? Should we stop development of GM crops? specially the edible ones or are there any measures to implement agri practices of GM food crops. When we see Bt Cotton it looks apparent that we do not have any problem because Bt gene is not entering our body and this would be the reason for success story of GM cotton. In this article we will look at the points from developers, anti-GMO and biotech regulator to understand situation of agriculture in a country like India which is at 100% reliance out of 157 countries of Global hunger index 2017.

Introduction to agriculture in India GMOs and Non- GMOs
India is a diverse country where we have 250+ ethnic groups and around 7000+ languages. The country is a diverse one with a large population. The country is a diverse one with a large population. The country is a diverse one with a large population.

Editorial

Top Global Biotechnology & Life Science Journals

By Kamal Prasad Singh

According to sources, World has around 28,000 active journals in various disciplines and still counting day by day. The list also includes predatory and fake journals which publishes just for sake of money without looking the authenticity of articles. In such a scenario it is very difficult to find a good journal to publish your findings and this to communicate your results in large audience, for value of Biotechnology or simply Biology which is supported branch of Science in Research and Development, the conditions are not different, everyday journals comes and disappear and then what remains on the researcher's finding.

In this article, I have listed the top journals which you may consider to publish your important research findings. You may find it difficult to get published for important/important journals but to control your research results among best researchers. The list comprises the journals which can be considered for Biological or Life Science field in broad sense but there are many more journals which are interdisciplinary and thus can be useful to publish your results.

Editorial

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

By Kamal Prasad Singh

This article is a report of India's renowned biotech coachings like Pathfinder and Grassroot academy. In this report, I have compiled some important information which students can use to make important decision while selection of best coachings to get desired results.

Today India has around 25 coachings for Biotechnology and Life science entrance exams. Each year thousands of students are appearing for these exams. The students are appearing for these exams. The students are appearing for these exams.

Startup Story

Shreeji Biotech's Skill Development Training Program on Microbiological Techniques

By Prakash Sharma, Director - Shreeji Biotech

Overview

Microbiology is the study of microorganisms such as bacteria, fungi and similar organisms that can't be seen with the naked eye.

Aim of Training Program

The main aim is to provide thorough knowledge on basic and advance microbiological techniques to lab students, researchers and industry professionals.

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Editorial

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

By Kamal Prasad Singh

The Union health ministry earlier in this month has proposed to amend Drugs and Cosmetics Act that may finally bring stem cells and cell based products under the ambit of law.

The ICMR has objected to amendments in the Drugs and Cosmetics Rules, 1955 on the regulation of stem cells procedures on its site i.e. much before the deadline of raising an objection.

The Council of Medical Research (ICMR) has earlier in this month advised Ministry for proposed amendments in its Drug and Cosmetics Rules, 1955 to require the Stem Cell based drugs should not require an in vivo stem cell transplants.

Health and Family Welfare Department (HFW) has earlier in this month said the only in vivo stem cell based products would likely to be introduced in this country after getting approval for stem cell based drugs and cell based products.

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Guest Article

CRISPR - Theory and Technology

By Sarwan Kishor Singh and Jitendra Kumar Singh, IIMT (ICMR), UP, India

Advances in molecular DNA technology paved way for genome editing. Since then, genome editing technology evolved gradually with constant improvements in the form of technology.

CRISPR Locus

The presence of CRISPR in the host genome is called CRISPR locus. The locus is shown composed of a CRISPR locus.

Components of a CRISPR locus

CRISPR locus is a genomic site which contains CRISPR units and repeats. The repeats are located in the CRISPR locus and are flanked by direct repeats.



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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?



By Pratik Sharma, FMS

Introduction

From the very beginning, science career was not made or seen or felt and the field of research was not seen or felt and not even as per admission to coaching classes.

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Editorial

Biotech coachings in India

By Kamal Prasad Singh, CDR-NET

Introduction

It was the start of millennium when biotech coaching started to exist in this new phase of revolution. These were the students and people who thought of establishing their own business in India.

List of Biotech/ Life Science Coachings in India

India has a large number of biotech coaching centers. There are many biotech coaching centers in India. The following are some of the biotech coaching centers in India.

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Table with 12 columns: Name of the Coaching, Address, Contact No., Website, and a list of services offered. The table lists various biotech coaching centers across different cities in India, including their addresses and contact information. The services listed include preparation for various exams and entrance tests.

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

Editorial

Review: All about Nipah Virus

By Kamil Prasad Singh

Nipah Virus has emerged as a deadly pathogen in South-East Asia. It is a zoonotic virus that causes encephalitis and fatal pneumonia. It is a member of the Paramyxoviridae family. The virus was first identified in 1999 in a patient with encephalitis in Malaysia. It is a highly contagious virus that can be transmitted through direct contact with the saliva of an infected person or through contact with their urine, sweat, or tears. It can also be transmitted through contact with the saliva of an infected animal, such as a pig or a horse. The virus is highly fatal, with a mortality rate of up to 100%.

Introduction

The name 'Nipah' is derived from Kampung Nipah (1999), the village in Malaysia where the first human case occurred. It is a zoonotic virus that causes encephalitis and fatal pneumonia. It is a member of the Paramyxoviridae family. The virus was first identified in 1999 in a patient with encephalitis in Malaysia. It is a highly contagious virus that can be transmitted through direct contact with the saliva of an infected person or through contact with their urine, sweat, or tears. It can also be transmitted through contact with the saliva of an infected animal, such as a pig or a horse. The virus is highly fatal, with a mortality rate of up to 100%.

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Origin and History

Nipah virus was first identified in 1999 in a patient with encephalitis in Malaysia. It is a highly contagious virus that can be transmitted through direct contact with the saliva of an infected person or through contact with their urine, sweat, or tears. It can also be transmitted through contact with the saliva of an infected animal, such as a pig or a horse. The virus is highly fatal, with a mortality rate of up to 100%.

Structure and Genome of Nipah Virus

The genome of Nipah virus is a single-stranded RNA molecule. It is approximately 18 kb in length and contains six genes: N, P, G, M, F, and S. The N gene encodes the nucleocapsid protein, the P gene encodes the phosphoprotein, the G gene encodes the glycoprotein, the M gene encodes the matrix protein, the F gene encodes the fusion protein, and the S gene encodes the surface protein.

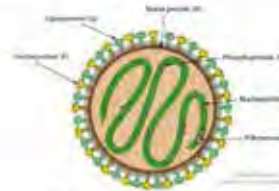
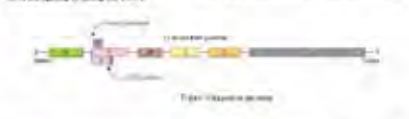


Figure: Structure of Nipah Virus

The genome of Nipah virus is a single-stranded RNA molecule. It is approximately 18 kb in length and contains six genes: N, P, G, M, F, and S. The N gene encodes the nucleocapsid protein, the P gene encodes the phosphoprotein, the G gene encodes the glycoprotein, the M gene encodes the matrix protein, the F gene encodes the fusion protein, and the S gene encodes the surface protein.



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Editorial

Interview - Learder's Talk

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

Our publications will be working hard to bring out new innovative books for the student community. It will focus on providing quality content that is relevant to the current scenario. We will also focus on providing digital content that is accessible to all students. We will also focus on providing mentorship programs to help students in their academic and professional journey.

How are you working after these many years (40) of working?

I have 15 years of experience in the field of education. I have worked in various capacities, from a teacher to a principal. I have also worked in the field of research and development. I have always been passionate about education and have always strived to provide the best quality of education to my students.



What is your view on an achievement of your company?

One of the major achievements of our company is the launch of our new digital platform. This platform has allowed us to reach a wider audience and has provided us with valuable insights into our students' needs and preferences. We are proud of the team that worked hard to make this achievement possible.

What are your views on the current state of the education system in India?

The current state of the education system in India is a mix of progress and challenges. While there has been significant investment in infrastructure and technology, there is still a need for more focus on quality education and skill development. We believe that a holistic approach to education is needed to prepare students for the challenges of the future.

Our company is committed to providing the best quality of education to our students. We will continue to invest in research and development to bring out innovative products and services that meet the needs of our students. We will also continue to focus on providing mentorship and support to our students throughout their academic and professional journey.



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Event Report

Research and Development of Vaccines: Issues, Challenges and Opportunities

Federation of Asian Biotech Associations (FABA) in association with ICS Solutions and C.R. Rao AMRCS organized a one day Symposium on "Research and Development of Vaccines: Issues, Challenges and Opportunities" on the 17th May 2018.

The symposium was held in a grand hall at the ICS Solutions building. The event was attended by over 100 participants from various countries. The symposium was organized by the Federation of Asian Biotech Associations (FABA) in association with ICS Solutions and C.R. Rao AMRCS. The event was a great success and provided a platform for experts in the field of vaccine research and development to share their knowledge and experiences. The symposium was held on the 17th May 2018.

Guest Article

Fish Embryonic Stem Cell Culture: Applications, Challenges and Alternative

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Editorial

Algal Pigment As Magic Bullet For Health Management

By Tippasree Ramakrishna & Suresh K. Srinivasan
Biotechnology, I.I.T., East India Pharmaceutical Institute
115, West Bay Road, Madurai - 625002

Introduction

Algal pigments are natural products that have been used for centuries. They are rich in antioxidants and have been shown to have various health benefits. Algal pigments are a promising source of natural products for the development of new drugs. They are also a rich source of nutrients and can be used as a natural preservative. Algal pigments are a promising source of natural products for the development of new drugs. They are also a rich source of nutrients and can be used as a natural preservative.

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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 biotechnology. 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.

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

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 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.

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

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 Homotel, 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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V Asia-Oceania Algae Innovation Summit (AOAIS)



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BRSI- Skill Development Program

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The conference as part of CSIR-IICT platinum jubilee celebrations provides a vibrant platform for sharing knowledge and global networking amongst the biotechnology fraternity focusing on sustainable development. BioSD 2018 will bring together scientists, young researchers, entrepreneurs, industrialists, policy makers, innovators and other global experts to deliberate and showcase the current trends and future challenges of the underpinned biotechnology research domains.

Academic and Industry Directory of BioSciences & Life Sciences

Biotech Express staff in last 5 years has gathered information of about 6300 organizations and designed a directory of all organizations working in the field of Biosciences/Life Sciences and interdisciplinary fields. These are startups, medium enterprises and establishments indulged in academics, research, supply, manufacturing, services in major sectors like BioPharma, BioAgri, Bioresearch, Biochemicals, Bioenergy, Bioservices and others. The directory has total entries of 6305 organizations in list.



Our Directory has 6000+ organizations in list and still updating. Recent changes includes only Top Universities, Government R&D Institutes & Labs, NGOs/Societies and Companies like Biopharma, Bioservices, Bioagri, Bioinformatics, CROs&CRAMS, BioInstrumentation, Bioconsumables like Instruments- Analytical, Chambers, Microscopes, Weighing scales, System Processes, Filtration, Glass Consumables, Plastic Lab Consumables, Lab Reagents, Growth Media and last but not least the bioenergy, bioremediation etc.

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