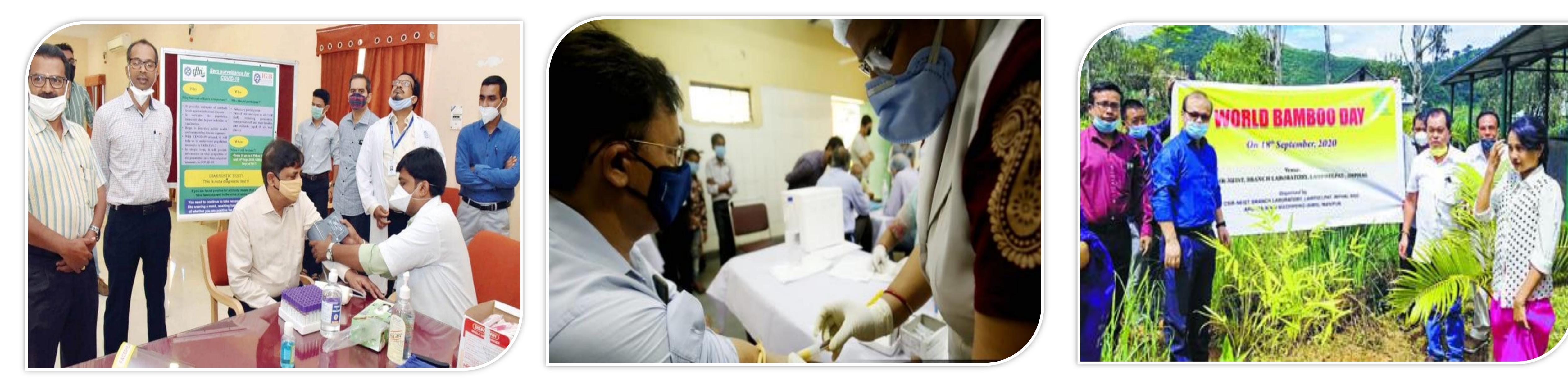






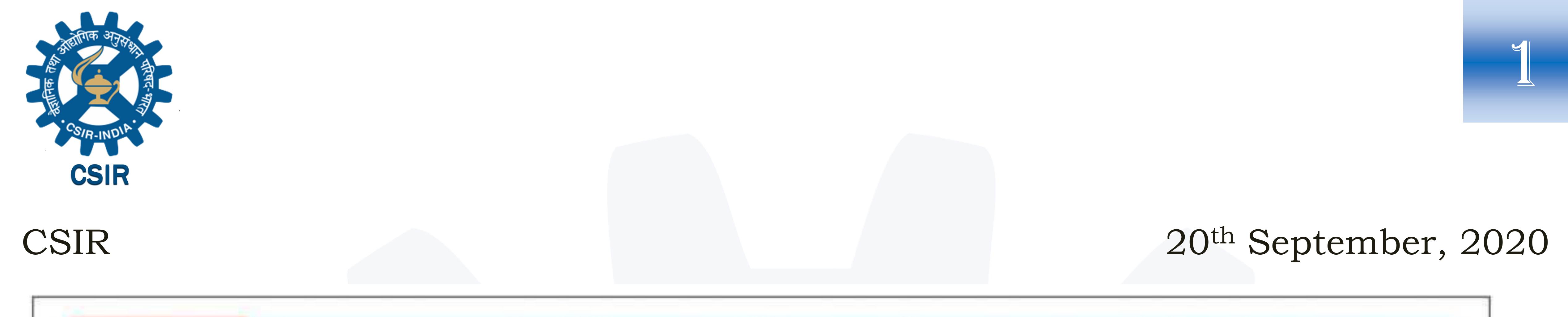
# NEWS BULLETIN

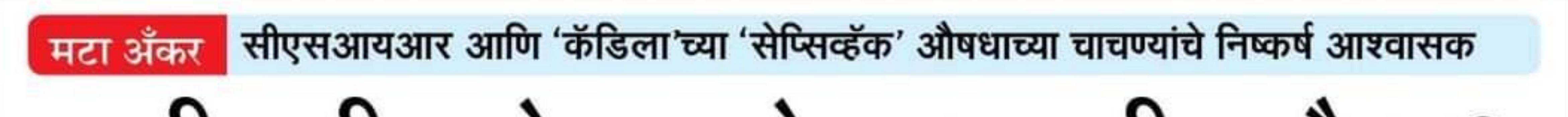
### 16 TO 20 SEPTEMBER 2020













मयुरेश प्रभुणे, पुणे

करोनावरील लस कधी उपलब्ध होणार याबाबत अनिश्चितता असताना, भारतीय शास्त्रज्ञांनी विकसित केलेले औषध लशीआधीच सेप्सिव्हॅक या औषधामध्ये मायकोबॅक्टरियम इंडिकस प्रानी या जिवाणूचा वापर करण्यात आला असून, १९७०च्या दशकात डॉ. गुरुशरण प्राण तलवार यांनी त्याचा शोध लावला होता. या जिवाणूचा उपयोग लेप्रोसीविरोधातील लस तयार करण्यात आणि क्षयरोगावरील उपचारांतही करण्यात आला. हा जिवाणू मानवी शरीरासाठी घातक नसून, त्याच्या शरीरातील प्रवेशासोबत प्रतिकारशक्ती सक्रिय होत असल्याचे दिसून आले आहे.

ओषध आणि लस म्हणन प्रभावी

करोनावरील कोणतीही लस बाजारात उपलब्ध होण्याआधी 'सेप्सिव्हॅक' हे औषध करोनामुळे होणारी जीवितहानी टाळण्यासाठी नक्की उपयुक्त ठरील, असा - डॉ. शेखर मांडे, 'सीएसआयआर'चे महासंचालक

असणाऱ्या आरोग्य कर्मचाऱ्यांना ते लशीप्रमाणे देण्यात आले. त्यांपैकी व्हेंटिलेटरवर असणाऱ्या ४२ जणांच्या चाचण्यांचे निष्कर्ष हाती आले असून, ते आश्वासक आहेत,' असे डॉ. मांडे यांनी सांगितले. चाचणी करण्यात आलेल्या रुग्णांपैकी काहींना असलेला मृत्यूचा धोका सेप्सिव्हॅकमुळे टळला आणि अनेक रुग्णांची कृत्रिम ऑक्स्जिनची गरजही कमी झाली, असेही त्यांनी

उपलब्ध होण्याची शक्यता	असून, त्यांपैकी करोनाच्या चिंताजनक	रुग्णांवर उपचारांसाठी वापरण्यात	(डीसीजीआय) 'सीएसआयआर'	नमूद केले.
निर्माण झाली आहे. औद्योगिक	रुग्णांवरील उपचारांत हे औषध प्रभावी	येते. करोनाबाधित रुग्णांवर या	आणि कॅडिला फार्मास्युटिकल्सला	'इतर दोन समूहांवरील चाचण्यांचे
आणि वैज्ञानिक संशोधन परिषद	ठरल्याचे दिसून आले आहे.	औषधाच्या सर्व चाचण्या यशस्वी		निष्कर्ष येत्या महिनाभरात अपेक्षित
(सीएसआयआर) आणि 'कॅडिला	सीएसआयआरचे महासंचालक डॉ.	ठरल्यास उपचारांप्रमाणेच कोव्हिड-	चाचण्यांसाठी एप्रिलमध्ये परवानगी दिली	असून, तेही यशस्वी ठरल्यास
फार्मास्युटिकल्स' यांनी विकसित	शेखर मांडे यांनी 'महाराष्ट्र टाइम्स'ला	१९ संसर्ग रोखण्यासाठीही ते उपयुक्त	होती. त्यानुसार व्हेंटिलेटरवर असणाऱ्या	सेप्सिव्हॅक हे करोनावर औषध
केलेल्या 'सेप्सिव्हॅक' या बाजारात	ही माहिती दिली. 'सेप्सिव्हॅक' हे औषध	ठरू शकेल, अशी आशा डॉ. मांडे		म्हणून; तसेच प्रतिकारशक्ती वर्धक
	सेप्सिससाठी म्हणजेच घातक विषाणूंच्या		असणाऱ्या रुग्णांना 'सेप्सिव्हॅक' औषध	
वेगवेगळ्या समूहांवर चाचण्या होत	संसर्गानंतर गंभीर आजारी झालेल्या	'औषध नियंत्रण महासंचालनालयाने	म्हणून, तर संसर्गाचा सर्वाधिक धोका	असे डॉ. मांडे यांनी सांगितले.

### Published in:

Mataa Ankar





## DCGI Approves India's First CRISPR Covid-19 Test Developed By The Tata Group And CSIR-IGIB



19<sup>th</sup> September, 2020

The Drug Controller General of India (DCGI) on Saturday gave approval for the commercial launch of India's first Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) test, developed by the Tata Group and CSIR-IGIB (Institute of Genomics and Integrative Biology). As per an official release issued Ministry of Science and Technology, The Tata CRISPR test, powered by CSIR-IGIB, received regulatory approvals from DCGI for commercial launch, as per ICMR guidelines, meeting high-quality benchmarks with 96% sensitivity and 98% specificity for detecting the novel coronavirus.

"This test uses an indigenously developed, cutting-edge CRISPR technology for detection of

the genomic sequence of SARS-CoV-2 virus.CRISPR is a genome-editing technology to diagnosing diseases," said the release. "The Tata CRISPR test is the world's first diagnostic test to deploy a specially adapted Cas9 protein to successfully detect the virus causing Covid-19," it added. The release further said that the launch marks a significant achievement for the Indian scientific community, moving from research and development to a high-accuracy, scalable and reliable test in less than 100 days.

"The Tata CRISPR test achieves accuracy levels of traditional RT-PCR tests, with quicker turnaround time, less expensive equipment, and better ease of use. Moreover, CRISPR is a futuristic technology that can also be configured for the detection of multiple other pathogens in the future,' it said. According to the release, the Group has worked closely with CSIR-IGIB and ICMR to create a high-quality test that will help the nation ramp up Covid-19 testing quickly and economically, with a 'Made in India' product that is safe, reliable, affordable, and accessible. (ANI)

**Business World** 





### **State celebrates 'World Bamboo Day'**

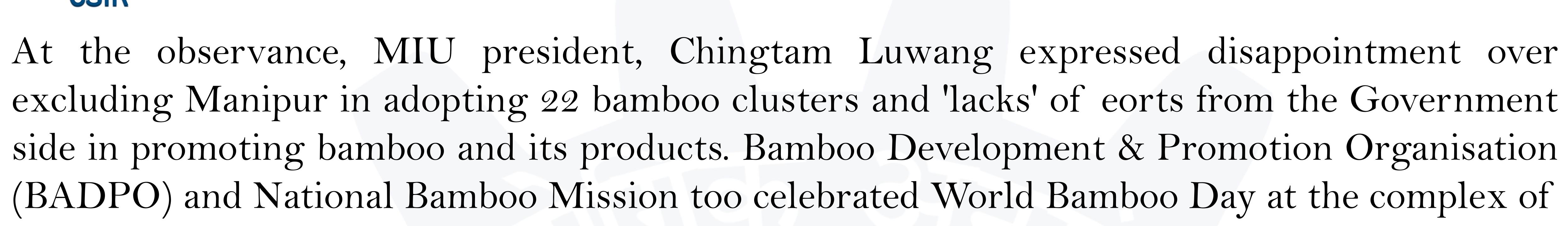


18<sup>th</sup> September, 2020



sustaining way of cultivation and no conservation is taken up, he added. Prof Amar Yumnam, Head, Department of South East Asia Studies, Manipur University who was the chief guest of the programme said that bamboo is used in dierent traditional forms in the State. Mayanglambam Khelendro Singh, Vice president, The Apunba Imagi Machasing (AIMS), Manipur and Mawung Mingthing, secretary, AIMS, Manipur also Sep 18: As celebrated globally, World Bamboo attended the programme as guests of honour. Day was also celebrated in the State, today, to increase the awareness of bamboo. Delivering the keynote address, Dr Atom Lamphelpat Dr H Birkumar Singh, Senior Sunil Singh, director, AIMS, Manipur said has that World Bamboo Day was ocially Principal Scientist, CSIR-NEIST highlighted the pressing need of establishing established at the 8th World Bamboo a Bambusetum in Manipur during the World Congress held in Bangkok on September 18 Bamboo Day observation held today at CSIR- 2009. The programme is celebrated to raise NEIST, Branch Laboratory, Lamphelpat, awareness of the benets of bamboo and to Imphal. The programme was organized promote its use in everyday products. Patsoi jointly with the Apunba Imagi Machasing South Asia Bamboo Foundation (SAbF) and (AIMS), Manipur. At the event, he mentioned Manipur Industries Union (MIU) jointly that bamboo is a traditional resource of organised World Bamboo Day at Crafts Manipur having wide utility needs from Complex Patsoi Part-I, today. Dierent environmentalists, bamboo entrepreneurs and childbirth to death. Although Manipur sympathizers attended the programme. harbours a diverse species of bamboo,





### Sawombung CFC Forest Department, Manipur, today.









### **Researches to strengthen micro, small, medium industries: Min**



18<sup>th</sup> September, 2020

Minister for Science and Technology Om Prakash Sakhlecha has said that researches and development in science will be utilized in strengthening Micro, Small and Medium industries in the state, so that their benefits reach the general public. Sakhelcha was addressing the webinar on the subject Science, Technology and Innovation Policy-2020 of India', held at Vigyan Bhavan.

The Minister said that the basic objective of science is peace and prosperity. Exploration and research in science originated from India and an important role will also be played by India in determining the future structure of the country. The importance of India has

surged in the world and today our country has joined the countries, leading in science and technology. The state government is ready to exert full strength to make Madhya Pradesh, a leader in science and technology.

The webinar was organized under the joint aegis of Madhya Pradesh Council of Science & Technology (MAPCST) and Vigyan Bharti. The National General Secretary of Vigyan Bharti, Jayant Sahastrabuddhe said that views have been invited from every section of the society to prepare the Science, Technology and Innovation Policy-2020 of the state.

The Advisor and Group Head, Department of Science and Technology, Government of India, New Delhi, Akhilesh Gupta, while making a presentation on the subject 'Science, Technology and Innovation Policy-2020 and Expectations from States' said that there is a need to connect science and technology with industries and society. He said that we are at third position in the world in the publication of Research Journals. We are at third place also in the field of start ups.





Gupta said that we have made four tracks for participation in Science, Technology and Innovation Policy- 2020. In Madhya Pradesh, Anil Kothari, the Director General of the MAPCST, Bhopal has been made the nodal officer. The Director General of the Council Anil Kothari, Director IISER, Bhopal Prof Shiva Umapati, Director, AIIMS, Bhopal Saran Singh, Director, CSIR-AMPRI, Bhopal Avinash Kumar Shrivastava, Vice Chancellor RGPV, Bhopal Prof Sunil Kumar Gupta and other expressed their views during the deliberations.







### Pune: 400 staffers of NCL & URDIP volunteer for CSIR sero survey



17<sup>th</sup> September, 2020



Around 400 staff members of the Council of Scientific and Industrial Research-National Chemical Laboratory (NCL) volunteered for a serological survey to detect the presence of antibodies for SARS nCov-2 virus. This is part of the Phenome India programme held by CSIR wherein scientists, students and staff of all CSIR labs test for the presence of these antibodies. Blood samples of officials aged between 18 and 70 years were collected for the survey in Pune.

Along with NCL, staff members of CSIR – Unit for Research and Development of Information Products (URDIP) were also part of the survey. Earlier, a similar sero survey was conducted in the city, with about 1,600 volunteers residing in areas that reported the maximum number of <u>Covid-19</u> cases since March this year. ENS

**Published in:** 

Indian Express



CSIR-NGRI

### 17<sup>th</sup> September, 2020



के रूप में हिन्दी का विकास और प्रयासों सीएसआईआर-राष्ट्रीय भूभौतिकीय महत्वपूर्ण भूमिका निभा रहा है। उन्होंने अखंडता के लिए हिन्दी एक मजबूत अनुसंधान संस्थान हिन्दी दिवस एवं हिन्दी पर प्रकाश डाला। उन्होंने कहा कि साधन है। इस तरह के आयोजनों से कहा कि यह वायरस चुपचाप फैलता है और कुछ लोगों को पता भी नहीं चलता हिन्दी को और समृद्ध करने तथा इसे आजकल के युवाओं के लिए अंग्रेजी पखवाड़ा का समापन समारोह ऑनलाइन कि उन्हें इस वायरस से संक्रमण हुआ सरकारी कामकाज में और आगे कैसे आयोजित किया गया। बोलना एक फैशन बन गया है। प्राथमिक आज यहाँ जारी प्रेस विज्ञप्ति के है, और वे निर्भयता से बाहर घूमते रहते शिक्षा का माध्यम मातृ भाषा होनी चाहिए। ब बढाया जाए, इस पर चिंतन मनन हिन्दी को नीति दस्तावेजों तक सीमित अनुसार, कार्यक्रम की अध्यक्षता संस्थान हैं। इसलिए बिना अत्यंत जरूरी काम करने का अवसर मिलता है। उन्होंने सीएसआईआर के महानिदेशक और के निदेशक डॉ. वी.एम. तिवारी ने की। के बाहर नहीं जाना चाहिए, मास्क पहनना नहीं रखते हुए जनमानस तक पहुँचाने केंद्रीय गृह मंत्री का उल्लेख करते हुए मुख्य अतिथि के रूप में सीएसआईआर-और भीड से बचना आवश्यक है। इस के लिए प्रयासरत होना चाहिए। कोशिकीय एवं आणविक जीव विज्ञान बीमारी को लेकर लोग भयभीत हो रहे वैज्ञानिकों से अपील की कि हिन्दी में इससे पूर्व केंद्रीय गृह मंत्री अमित वेंग्द्र (सीएसआईआर-सीसीएमबी), हैं, जबकि इसके प्रति सकारात्मक रुख स्तरीय वैज्ञानिक साहित्य सुजन की शाह का हिन्दी दिवस के पर दिए गए प्रकाश डाला। हैदराबाद के निदेशक डॉ. राकेश के. अपनाना चाहिए। सीसीएमबी ने मलजल आवश्यकता है। उन्होंने कहा कि हिन्दी संदेश को संस्थान की प्रशासनिक में कैपिटल व स्मॉल अक्षर नहीं होते। के नमुनों से इस वायरस के फैलाव के अधिकारी वी.वी.एस. लक्ष्मी ने पढ़कर मिश्रा और सम्मानित अतिथि के रूप में बारे में अनुसंधान किया है। आधे अक्षर को पुरा अक्षर सहारा प्रदान पूर्व राष्ट्रपति स्वर्गीय डॉ. ए.पी.जे. सुनाया। तत्पश्चात हिन्दी दिवस के अब्दुल कलाम के सहयोगी एवं हैदराबाद सीएसआईआर इस महामारी से मुक्ति उपलक्ष्य में वैज्ञानिक तथा औद्योगिक करता है। इसमें किसी ऊँच नीच की विश्वविद्यालय के अनुबंध प्रोफेसर के भावना के लिए स्थान नहीं है। यह सबके सम्मानित अतिथि का परिचय संस्थान अनुसंधान परिषद (सीएसआईआर) के दिलाने में हर संभव प्रयास कर रही है। महानिदेशक डॉ. शेखर सी. मांडे द्वारा रूप में कार्यरत प्रो. अरुण तिवारी लिए समान है। उन्होंने क्षेत्रीय भाषाओं के वरिष्ठ प्रधान वैज्ञानिक डॉ. देवेन्द्र उन्होंने कहा कि हाथ धोना, मास्क पहनना, की गई अपील को संस्थान के वरिष्ठ के विकास का जिक्र करते हुए कहा कुमार ने दिया। संस्थान के वरिष्ठ हिन्दी बेवजह बाहर घूमना बंद करना, स्वास्थ्य उपस्थित थे। डॉ. राकेश मिश्रा ने अपने संबोधन के प्रति सावधानी बरतना आदि आदर्ते अधिकारी चि.वं. सुब्बाराव ने धन्यवाद हिन्दी अधिकारी चि.वें. सुब्बाराव ने कि प्रत्येक सीएसआईआर प्रयोगशाला ज्ञापित किया। पखवाडे के आयोजन में कोविड-19 महामारी और कोरोना लोगों की जीवनशैली में शामिल होनी की वेबसाइट को क्षेत्रीय भाषाओं में प्रस्तुत किया। अध्यक्षीय भाषण में संस्थान के वायरस के बारे में विस्तृत रूप से प्रकाश चाहिए। उन्होंने दर्शकों के सवालों के उपलब्ध कराने का प्रयास किया जा में संस्थान के आई.टी. अनुभाग एवं रहा है। उन्होंने संस्थान के वैज्ञानिकों निदेशक डॉ. वी.एम. तिवारी ने कहा डाला। उन्होंने इस बीमारी व वायरस के लिए जवाब भी दिए। सूचना अनुभाग की महत्वपूर्ण भूमिका प्रो. अरुण तिवारी ने 'कोरोना के बाद कि देश में 50 फीसदी लोग हिन्दी में संबंध में सीएसआईआर-सीसीएमबी और से अपील की कि क्षेत्रीय भाषाओं में रही। कार्यक्रम का समन्वयन एवं लिख सकते हैं 75 प्रतिशत जनता हिन्दी सीएसआईआर की दूसरी प्रयोगशालाओं की दुनिया में भारत : चुनौतियाँ और वैज्ञानिक साहित्य सूजन को अपने संचालन संस्थान के वरिष्ठ हिन्दी अधिकारी चि.वं. सुब्बाराव ने किया। में अपनी बात को व्यक्त कर पाती दायित्व के रूप में स्वीकारें। में हो रहे अनुसंधान एवं प्रगति का उल्लेख अवसर' विषय पर अपने विचार व्यक्त

पखवाड़ा आयोजन समिति के अध्यक्ष डॉ. देवेन्द्र बुग्मार, बरिष्ठ प्रधान वैज्ञानिक ने हिन्दी पखवाड़े के दौरान आयोजित विभिन्न कार्यक्रमों एवं प्रतियोगिताओं के बारे में जानकारी देते हुए विजेताओं को बधाई दी। उन्होंने संस्थान में हिन्दी के प्रचार-प्रसार के लिए समय-समय पर किए जाने वाले कार्यक्रमों एवं गतिविधियों पर भी कार्यक्रम का शुभारम्भ कुमारी महती द्वारा प्रस्तुत वंदना से हुआ। मुख्य अतिथि का परिचय संस्थान की वैज्ञानिक डॉ. प्रभा पांडेय और

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CSIR-IGIB



## First confirmed Covid reinfection: Have no symptoms, I feel normal, says GIMS nurse

17<sup>th</sup> September, 2020



When they got reinfected, there were no TH IN HOME ISOLATION signs. Both Bhati and his colleague were rse, male (25) asymptomatic this time around and the ted positive | May 4 (he was Covid duty at ICU) Covid-19 infection was detected in them nptoms | Mild throat infection nitted to GIMS | May 5 August 21 for Bhati and September 5 for his charged | May 15 oined June 5 colleague – during routine screening s on non-Covid duty all of July k on Covid duty at ICU protocols that healthcare workers need to go iust a ted positive again | August through. A genetic sequencing was done on pital stay | August 21-24 tus Asymptomatic: them at GIMS under the CSIR-IGIB (Council since March Sept 20 of Scientific and Industrial Research-Institute rse, female (28) September 5 Status Asymptomatic of Genomics and Integrative Biology) project Discharged | Early June ted positive | May 17 Tested positive again | nptoms | Mild throat to study the infection. It showed the virus Praveen Bhati hadn't imagined becoming the had mutated and got past the antibodies subject of research papers when he was developed after the first infection. Based on assigned to patient care at the Covid wards. this, the GIMS study observed that some After six months, the 25-year-old has the individuals could have shortlived immune focus of the medical community – as one of responses to Covid-19, making them prone to two patients who are likely the first in India reinfection. Since Bhati and his colleague in whom the novel coronavirus reinfection don't have any symptoms, they are both in has been genetically proven. The other is a home isolation now. Though there are no 28-year-old nurse, Bhati's colleague at GIMS, physical manifestations of the infection, Bhati the state-run Covid hospital and research said over the phone the reinfection had made centre. Bhati's first infection was confirmed him a little anxious. "After discharge from on May 5 while his colleague tested positive GIMS on May 15, I joined duty on June 5. I on May 17. Doctors said both were was put on non-Covid duty, according to symptomatic, showing a throat infection.





protocol. From August 8, I was back on Covid ICU duty. When I tested positive again, it got me worried as I had taken extra precautions of wearing a mask all the time, sanitising my hands, maintaining social distancing, etc," Bhati said, adding he was taken by surprise by the reinfection because he feels "completely normal". Explaining the reinfections, Dr Vivek Gupta, MD, PhD and associate professor at the department of pathology (GIMS), said, "The two cases were diagnosed through RT-PCR tests and further analysed for genomic sequencing. The results revealed 9 and 10 unique variant differences between the virus isolates from the two episodes of infection for both patients. "Asked about the infection sources, Dr Saurabh Srivastava, head of the medicine and nodal officer of the Covid-19 team at GIMS, said, "They have been on Covid duty since long and we suspect they got the infection from the hospital." Dr Gupta said the GIMS study emphasised RT-PCR-based surveillance of healthcare workers, who are at higher risk of infection and reinfection. "This is the first case series from India. It has been sent for review to the Clinical Infectious Diseases Journal," he said. GIMS director Brigadier RK Gupta (retd) said the hospital would report the findings to the Indian Council of Medical Research for further study. GIMS has submitted 100 samples the CSIR-IGIB study of genomics of the novel coronavirus. He said comorbid patients – those with cancer, diabetes, hypertension – were prone to reinfection. "This was a reinfection in a non-comorbid, young adult with no symptoms. Hence, the necessity to carry out genome sequencing," the GIMS director said, speaking about Bhati. Bhati will be in home isolation till September 20. His wife and one-year-old son are the other family members at home. He has confined himself to a room. Dr Vivek Gupta said the main observations of the CSIR-IGIB study include 73 novel variants of the virus that have been identified. The study is



### Published in:

The Times of India





### **CSIR Collaborates With Aurobindo Pharma To Develop COVID-19** Vaccines

### CSIR-CCMB, IMTECH, IICB

16<sup>th</sup> September, 2020

vaccines," it said. Commenting on this partnership, Dr Shekhar C Mande, Director General, CSIR, said that "Joining of hands of premier CSIR labs with industry for the development of vaccines will amplify India's efforts in indigenous vaccine development and help in preparedness for future also pandemics". Dr. Rakesh Mishra, Director, Vaccine CSIR-CCMB, while talking about the The Council of Scientific and Industrial development strategies for the vaccines said, Research (CSIR) and Aurobindo Pharma "Our labs are working on novel proteins for Limited on Tuesday announced vaccine development that has the potential to collaboration to develop vaccines for COVIDaddress the need for a second-generation 19. As per the release issued by the Centre for vaccine. We are happy to partner with Cellular & Molecular Biology (CCMB), under Aurobindo who have proven manufacturing the signed agreement between CSIR- CCMB and commercialization capabilities." and Aurobindo Pharma, Aurobindo will Aurobindo Pharma Limited also expresses partner with CSIR for the development of pride over the collaboration with CSIR for several novel COVID-19 vaccines. "Three developing vaccines to combat the COVID-19 CSIR labs namely CCMB Hyderabad, pandemic and said that is already setting up a Institute of Medical Technology (IMTECH), large-scale facility in Hyderabad for Chandigarh and Indian Institute of Chemical manufacturing the vaccine. "We are proud to Biology (IICB), Kolkata are developing join hands with CSIR for developing vaccines vaccine candidates using different technology ' to combat the COVID-19 pandemic. This platforms. Aurobindo will undertake clinical collaboration further strengthens our development and commercialization of the







COVID-19 vaccine development efforts. We are already setting up a large-scale facility in Hyderabad for manufacturing COVID-19 vaccine and other viral vaccines," said N. Govindarajan, Managing Director, Aurobindo Pharma Limited. The release said that apart from this collaboration, Aurobindo is already developing a vaccine for COVID-19 (SARS COV-2) through its wholly-owned US subsidiary Auro Vaccines. "The SARS COV-2 vaccine candidate is based on the company's proprietary replication-competent, attenuated, recombinant vesicular stomatitis (VSV, VesiculoVax(tm)) vaccine delivery platform," it added.







### **Two-Day Testing For Antibodies In Plasma Begins At CFTRI**

CSIR-IGIB, CFTRI

15<sup>th</sup> September, 2020





As part of the nationwide project from CSIR- IGIB (CSIR-Institute of Genomics & Integrative Biology), New Delhi, a two-day Pan-CSIR Phenome India Sero Surveillance for **COVID-19**, began at CSIR- Central Food Technological Research Institute (CFTRI) in city this morning. This is being conducted for all staff and students of CFTRI. CFTRI Director Dr. R. Subramanian was the first to participate and provide blood sample for the clinical study. Project Member Dr. P.V. Ravindra, speaking to Star of Mysore, said that this testing is being carried out at all CSIR institutes across the country to verify the prevalence of COVID-19 in the population based on the estimation of antibodies in the plasma. He

further said that it also provided information about the immune status of the individual.

# Project Leader Dr. Shantanu Sengupta of CSIR-IGIB, New Delhi, Co-ordinator Dr. Prakash M. Halami, Members Dr. Muthukumar, Dr. M.S. Gopinath, Dr. Avilash and others

were present.

**Published in:** 

Star of Mysore





### CSIR-IICT

### 15<sup>th</sup> September, 2020



# antiviral drug for COVID-19'

Focus also on corticosteroids for virus management in moderate, severe patients

### V. GEETANATH

CSIR-Indian Institute of Chemical Technology (IICT) has been one of the first indigenous labs to gear up to combat COVID-19 by scouring existing antivirals to treat the infection and has been successful in providing the vital Active Pharma Ingredient (APD to Indian companies for making affordable drugs. The institute is working on a few more APIs to tackle the novel coronavirus and other diseases. In this interview, IICT Director S. Chandrashekar explains what goes into drug discovery and other related issues.

cer, metabolic and infectious diseases and others, always need 8-12 years with at least US\$1-2 billion investment. For bacterial and viral infections, the challenges are mutations and resistance. Hence, we will need better planning while taking up discovery projects in this area.



ravir and Remdesivir drugs; the three layer mask for nonhospital common purposes. We are also working on corticosteroids which have become very essential in coronavirus management for moderate and severe patients.

Why is it difficult to come out with a precise drug for a virus like COVID-19 despite having the advantage of modern technology and benefits of advanced research facilities? Precise drug discovery for any disease including canOther than Favipiravir and Remidesvir, what other antivirals are our labs and those abroad working on to combat COVID-19?

There are several small molecules, both repurposing and new chemical entities or NCEs, which are being pursued globally. One of the frontrunners is the molecule discovered in Emory University in the United States called 'Eidd' or the Emory Institute of Drug Discovery, which the multinational, Merck, is pursuing to take it forward. Constrained by the second seco

How has the IICT helped in agriculture operations this year like honey traps? We are delivering the traps to a few districts in Telangana as part of the Haritha programme of CSIR. We are willing to work with the State governments to provide as many traps and lures as they require assuring of the best quality in very short time. Our engineering colleagues are also working with vegetable and fruit markets to see how best the waste could be recycled for organic manure, power generation, cooking gas and so on in association with the Agriculture depart-

ment.

What has been the progress

of other anti-coronavirus technologies which IICT has been working on? We are continuing to work on corona mitigation projects. We have already delivered the process to Favipi-

### Published in:

The Hindu



CSIR-IICT



### 15<sup>th</sup> September, 2020



हैदराबाद (शुभ लाभ ब्यूरो)। नकद् पुरस्कार दिया गया। Propir संस्थान में हिन्दी के लिए सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान, सौहार्दपूर्ण वातावरण उपलब्ध है। e ..... हैदराबाद में सोमवार को हिन्दी डॉ. एस. नसीमा, वरि. हिन्दी अधिकारी ने गृहमंत्री अमित दिवस समारोह का आयोजन a dente de la composición de la composicinde la composición de la composición de la composición de la शाहजी द्वारा जारी किया गया एमएस टीम द्वारा किया गया। इस हिन्दी संदेश एवं मुख्य अतिथि का समारोह की अध्यक्षता परिचय सभी श्रोताओं के सम्मुख निदेशक, डॉ.एस.चन्द्रशेखर, C सीएसआईआर-आईआईसीटी ने प्रस्तुत किया इस समारोह में 000000 मुख्य अतिथि के रूप में प्रो. डॉ.एन.वी. की तथा THE REAL FROM SAN AR COMMENT अरुण कुमार तिवारी, वैज्ञानिक सत्यनारायण, प्रभारी निदेशक ने हुए हम अपने संस्थान में हिन्दी प्रोत्साहित करने के लिए यह डीआरडीओ, लेखक एवं वक्ता, अध्यक्षीय भाषण में कहा कि हिन्दी से अनेकता में एकता का का बखूबी कार्यान्वयन कर रहे हैं। विशेष नकद पुरस्कार दिये गये हैदराबाद को आमंत्रित किया स्वर गंजता है। मानव जीवन में प्रत्येक तिमाही में कार्यशाला. हैं. जो कि अपने आप में विशिष्ट गया। मख्य अतिथि ने सभी को

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