# CSIR in Media





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# NRDC inks 3 licence pacts for commercialisation of herbal formulations



### CSIR-CIMAP

The Hindu

# 2<sup>nd</sup> July 2017

NRDC has signed three licence agreements for commercialisation of herbal formulations that claim to overcome hair fall and dandruff (Geranium Hair Care Shampoo), mental stress (Relaxomap-stress relieving oil) and acne problems

H. Purushotham, Chairman &
Managing Director, National
Research Development Corporation
and Director, Naturoveda Organics,
Intekhab Alam.

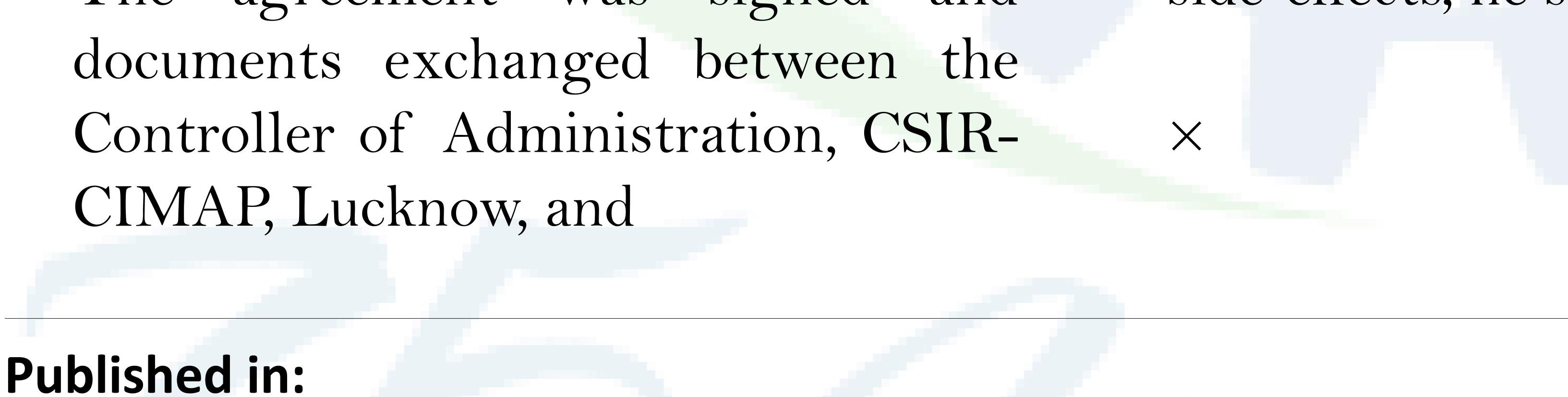
A. K. Tripathi, Director, CSIR-

(Acne Face Wash) with Naturoveda Organics, Kolkata.

All the three technologies have been developed by CSIR-CIMAP, Lucknow, which comes under the Ministry of Science and Technology.

The agreement was signed and

CIMAP, explained the benefits and key features of the technologies. Purushotham said the demand for herbal products was increasing and NRDC had licensed 25 herbal technologies to various SMEs/ startups. These products are natural products and are safe to use with no side-effects, he said









# Lost and found: the tale of two cities



#### CSIR-NIO

1<sup>st</sup> July 2017

Centre to launch underwater robots to find lost 'cities' of Dwaraka, Poompuhar The Department of Science and Technology (DST) is looking to send of Oceanography (NIO), Goa. The former has indigenously built vehicles capable of plumbing 5,000 metres underwater and the NIO has previous experience in marine archaeology.

robotic vehicles into the sea near Dwaraka, Gujarat, and Puhar, Tamil Nadu, to look for submerged structures that may, according to a person aware of the project, point to evidence on the ancient cities.

The programme, still a preliminary proposal, is expected to involve organisations such as the National Institute of Ocean Technology, Chennai, and the National Institute "Along with historical interest, this is also to test several technologies such as sophisticated imaging technology, being able to map the ocean floor with sonar and being able to date old stones and recoverable implements using the latest techniques," a person at the DST told The Hindu. "A

proposal has been cleared but funding should be clear in three months."





Excavations at Dwaraka, a coastal town in Jamnagar district of Gujarat, have a long history. Nearly a decade ago, the Underwater Archaeology Wing of the Archaeological Survey of India (ASI) found copper coins and segments of granite structures. Mentioned in the Mahabharata as 'Dvaraka' or 'Dvaravati,' it is also linked to the god Krishna. Dwaraka, a port city, finds mention in ancient Greek texts from the 1st millennium and, according to legend, was a rich city that sank into the sea.

Last year, divers, geologists and archaeologists with the NIO, working off the coast of Tamil Nadu, reportedly found stone remains suggestive of an ancient port and temples, which were reportedly buried about 30 feet into the sea. Tamil and Buddhist literature have references to Poompuhar, or Puhar, as being

# the port capital of the Chola dynasty.

The first excavations at Dwaraka were done by the Deccan College, Pune, and the Department of Archaeology, the government of Gujarat, in 1963 under the direction of H.D. Sankalia. Over the years, it has thrown up pottery that suggest that the city could be over 3,000 years old.

This isn't the first attempt by the government to search for evidence of mythological entities.

In October, an expert committee of geologists, archaeologists and hydrologists said it had found evidence of the course of the Saraswati, a river mentioned in the Rig Veda and in Hindu mythology.





This was a study commissioned by the Water Resources Ministry and led by Professor K.S. Valdiya of the Jawaharlal Nehru Centre for Advanced Scientific Research.

His report concluded that evidence from palaeochannels — remnants of defunct rivers — suggested that the Sarsuti-Markanda rivulets in Haryana were the water courses of the "eastern branch of a Himalayan river" and the Ghaggar-Patiali channels were the western branches.









# Soon, smell what's cooking on TV, courtesy CSIO



#### CSIR-CSIO

2<sup>nd</sup> July 2017

Soon, one might be able to smell the aroma of that lip-smacking dish while it is being prepared on a cookery show on the TV. At least this is what the scientists of Chandigarhbased Central Scientific Instruments Organisation (CSIO) have been claiming after developing an algorithm that allows predicting smell of new molecules.

senses. Among other sensory perceptions, including sight and touch, there is a well-defined scale, but not so in smell. For instance, on hearing, there is mapping of sound in terms of decibel.

For the first time in India, an algorithm with vast applications has been developed. For scientists, smell has always been enigmatic as it has been the least understood of all human senses. So far, chemical and physical properties could be predicted from a molecular structure. However, smell being a sense which is learnt by association could not be predicted. "It is all perception-driven, unlike other Likewise, light can be defined by hue, brightness, and saturation. In other words, it has been a challenge to predict the smell of a novel molecule by its physicochemical structure," said CSIO principal scientist Amol P Bhondekar, who worked on the project.

Now, what is the significance of this data-mining software? Scientists claim that the exploitation of natural resources for extraction of essential oils is evident from the fact that musk deers are on the verge of extinction.

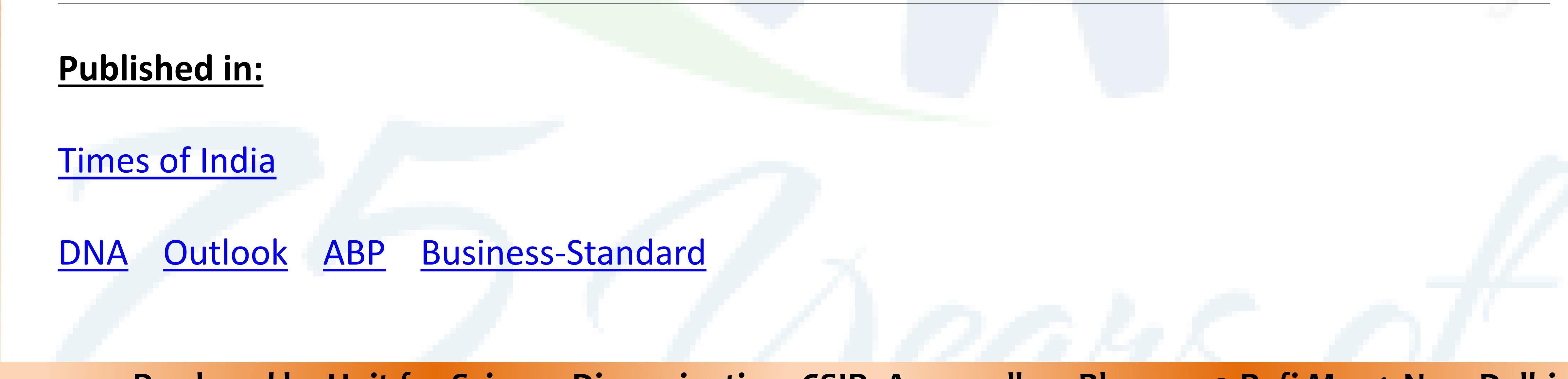




"This calls for the need to create synthetic materials for replicating these natural odours, thereby reducing threat of extinction of endangered flora and fauna," said Amol.

Funded by Council of Scientific and Industrial Research, work on the algorithm started in 2012. The team included Ritesh Kumar and Rishemjit Kaur, who were guided by Bhondekar and Dr G P S Raghava. The team mined open access data of 3,016 molecules, which included physcio-chemical properties of 1,666 molecules and 526 perceptual descriptors (how preceptors who smelled the molecules defined it). Using this data, a model has been prepared that can predict smell of new molecules which are formed after they are blended.

However, the main work started in 2015 with Rockfeller University asking 49 volunteers to assess the odour of 476 different chemicals, based on 21 different descriptors. The descriptors ranged from a chemical's intensity and pleasantness of smell, to how fruity, spicy or fishy it was. They later released it to open community of researchers to challenge them to design machine learning algorithms. CSIO was the only participant from India and was ranked 15th out of 22 finalists.







# Need to encourage hands-on training, stresses expert





# 1<sup>st</sup> July 2017



# hands-on training.

Earlier, Prof RK Sinha, Director, CSIR-CSIO, highlighted the activities of the Indo-Swiss Training Centre and welcomed the chief guest. Narinder Singh Jassal, Vice-Principal,

The 52nd convocation of Indo-Swiss Training Centre (ISTC) was held today at the CSIR-Central Scientific Instruments Organisation, Chandigarh.

PK Changoiwala, General Manager,

ISTC, while presenting the annual report of the training centre, informed the gathering that the ISTC brought laurels to the institute by bagging various prestigious prizes in different competitions, including Mitsubishi Electric Cup and Tech Invent. He informed that almost all students have got good placements in companies like HLS Asia Ltd, SML, Fanuc, Titan, Kyowa Design and Technology (India) Ltd, Minda, Exicom Telesystems Ltd, Hindustan Hydraulics, Tynore, Steel Strip , Gillard, Allengers, and VMS Ltd.

Bharat Electronics Ltd., Ministry of Defence, Government of India, was the chief guest on the occasion. Changoiwala, while delivering the convocation address, stressed upon the need to encourage





The graduating students were awarded diplomas and advanced diplomas by Sinha, while Changoiwala gave away the prizes and medals to the students who had excelled in various fields.

This year Hardik Sharma clinched gold medal in electronics engineering, Shubham Dhiman silver medal in mechanical engineering. Pankaj Yadav was given a gold medal and Vikram Singh Dhiman a silver medal.









# **One Day Seminar on Waste Management At Taj Krishna**





# పాలచుద్యాన్ని ప్రైవేటుకు అప్పరిస్తే..!



చేయట్లేదు" అని కేటీఆర్ తెలిపారు. (పతి మున్ని పల్ కమిషనర్ ఓ ప్రభుత్వ పాఠశాలను దత్తత తీసుకోవాలని మంత్రి ఆదేశించారు. చెత్త డబ్బాల పంపిణీపై మంత్రి ప్రకటన వెలువడగానే ఐటీసీ సంస్థ స్పందించింది. రెండు వేల మంది విద్యార్థు లకు చెత్తడబ్బాలను పంపిణీ చేస్తామని ప్రకటిం చింది. కార్యక్రమంలో మున్నిపల్ శాఖ కార్యదర్శి నవీన్ మిట్టల్ మాట్లాడుతూ.. వ్యర్థ పదార్థాల

ఈనాడు, హైదరాబాద్: ప్రపంచానికి సవా లుగా పరిణమిస్తున్న ఘన వ్యర్థాల నిర్వహణపై విస్తృతస్థాయి చర్చలు జరగాలని రాష్ట్ర పురపాలక, ఐటీ శాఖ మంత్రి కల్వకుంట్ల తారక రామారావు అభిప్రాయపడ్డారు. ఆయా సేవల్ని ప్రైవేటు సంస్థ లకు అప్పగించే అంశంపై ప్రయోగాలు జరగాలని ఆకాంక్షించారు. ప్రైవేటు అనగానే వ్యతిరేకత వ్యక్తం చేయడంలో అర్థం లేదన్నారు. మొదట చిన్న పట్టణాల్లో ఈ తరహా పైలట్ ప్రాజెక్టును చేపట్టి, ఫలితాల ఆధారంగా ఇతర ప్రాంతాలకు విస్తరించడంపై నిర్ణయం తీసుకోవాల్సి ఉంద న్నారు. శనివారం నాడిక్కడ హోటల్ తాజ్కృ ష్లలో ఘన వ్యర్థాల నిర్వహణపై ఎలెట్స్ టెక్నాల జీస్ టెక్నో మీడియా సంస్థ ఏర్పాటుచేసిన జాతీయ

జాతీయ ఘన వ్వరాల నిర్వహణ సదస్సులో నమూనాను పరిశీలిస్తున్న మంత్రి కేటీఆర్

రికి రెండు చొప్పున 20 వేల చెత్త డబ్బాలను

పంపిణీ చేస్తామన్నారు. చిన్నప్పట్నుంచే పిల్లలకు

వ్యర్థాలను చెత్తడబ్బాల్లో మాత్రమే వేయాలనే

భావన కలిగిస్తే.. భవిష్యత్తు తరం క్రమశిక్షణతో

మెలుగుతుందన్నారు. అందుకు ఉదాహరణగా తన

కాలనీ సంఘాలకు నగర పాలనకు సంబంధించిన పలు బాధ్యతల్ని అప్పగించాల్సిన అవశ్యకత ఉందని అభిప్రాయపడ్డారు. చాలా మందిలో 'ఈ నగరం మనది, శుభంగా ఉంచుకుందాం' అనే భావన కొరవడిందని ఆందోళన వ్యక్తంచేశారు.

నిర్వహణలో జీహెచ్ఎంసీ ఎన్నో విష్ణవాత్మక చర్యలు తీసుకుందన్నారు. హైదరాబాద్తో పాటు వరంగల్ కార్పొరేషన్లో కూడా వ్యర్థాల నిర్వహ ణలో ఉత్తమ కార్యక్రమాలు అమలవుతున్నాయని గుర్తుచేశారు. కార్యక్రమంలో నగర మేయర్ బొంతు రామ్మోహన్, ఎమ్మెల్యేలు వినయ్భాస్కర్, పువ్వాడ అజయ్ కుమార్, జీహెచ్ఎంసీ కమిషనర్ బి.జనార్ధన్ రెడ్డి, మున్సిపల్ శాఖ డైరెక్టర్ టి.కె. శ్రీదేవి, గుజరాత్, మేఘాలయ, తమిళనాడు, ఒడిశా, ఛత్తీస్గఢ్ తదితర రాష్టాలకు చెందిన ఉన్న తాధికారులు పాల్గొన్నారు.

#### నూతన సేవలు

ఇప్పటి వరకు ఆండ్రాయిడ్ స్మార్డ్ ఫోన్లలో మాత్రమే పనిచేస్తోన్న మైజీహెచ్ఎంసీ మొబైల్ యాప్ కు అదనంగా.. యాపిల్ ఐఓ ఎస్ వర్షన్ ను మంత్రి కేటీఆర్ విడుదల చేశారు. దాంతోపాటు నూతన బల్షియా వెబ్





# **Dr Harsh Vardhan launches National Biopharma Mission**





# pharmaceutical market,' Dr Vardhan said. The first ever Industry-Academia mission to accelerate biopharmaceutical biopharmaceutical development in India has been approved by the Government. The program named Innovate in India (i3)

# 1<sup>st</sup> July 2017



The first ever Industry-Academiaa loan fmissiontoaccelerateto creatbiopharmaceuticaldevelopmentinpromotethe country was formally launched byindigendUnionScienceandTechnologyMinisterHarshVardhanhere.DepartreBiopharma missioncan bring major(DBT),changeinthehealthcareTechnoltechnologies, he said. 'It is time forBiotechnolStrengths and overcome any hurdlesPublic Storetoensuresuccessinthebiotechnol

will witness an investment of USD 250 million with USD 125 million as a loan from World Bank and aspires to create an enabling ecosystem to promote entrepreneurship and indigenous manufacturing in the sector. This Mission of the Department of Biotechnology (DBT), Ministry of Science &

Technology will be implemented by Biotechnology Industry Research Assistance Council (BIRAC) – a Public Sector Undertaking of DBT.

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