



CSIR Technology Awards 2021

80th CSIR Foundation Day

CSIR Technology Awards

CSIR Technology Awards seek to foster and encourage multi- disciplinary in-house team efforts and external interaction for technology development, transfer and commercialization. Technology Award comprises a cash prize of Rs. 2 lakh, a plaque and a citation. “Most Significant CSIR Technology of the Five Year Plan Period” has a cash prize of Rs 5 lakh.

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Life Science



Souvik Maiti, Mohd. Azhar, Rhythm Phutela, Manoj Kumar, Asgar Hussain Ansari, Riya Rauthan, Sneha Gulati and Debojyoti Chakraborty

CSIR-Institute of Genomics and Integrative Biology, Delhi

For developing FnCas9 Linked Uniform Detection Assay (FELUDA), a rapid, robust, and inexpensive CRISPR-Cas based diagnostic tool that provides a visual readout on a dipstick for the detection of monogenic and infectious diseases like SARS CoV2 and its variants.

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Life Science



Probir Kumar Pal, Sanatsujat Singh, Mohit Sharma, Ashok Kumar, Rakesh Kumar and Ram Kumar Sharma

Certificate of Merit

CSIR-Institute of Himalayan Bioresource Technology, Palampur

For developing rebaudioside-A rich cultivar of ‘Him stevia’, advanced agro-technology with 28% yield improvement, and green process technology for converting dry leaf into stevia glycosides powder with a purity of more than 95%.

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Life Science



Rakesh K Mishra, T Karthik Bharadwaj, CG Gokulan, Sai Uday Kiran, Santosh K. Kuncha, Archana B. Siva and Divya Singh

Certificate of Merit

CSIR-Centre for cellular and Molecular Biology (CCMB), Hyderabad

For developing a Dry Swab based Direct RT-PCR Method for COVID-19 Diagnostics.

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**Physical Science
including Engineering**



Sadhana Rayalu, Penumaka Nagababu, Er. Shilpa Kumari, G. K. Hippargi and Rakesh Kumar

CSIR-National Environment Engineering Research Institute Nagpur

For developing Green firecrackers which are environmentally benign by design with reduced chemical and environmental footprint.

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**Physical Science
Including Engineering**



Vijayakumar C., Jubi John, Sreejith Shankar P., Praveen V. K., Saju Pillai, Karunakaran V. and A. Ajayaghosh

Certificate of Merit

**CSIR-National Institute for Interdisciplinary Science and Technology,
Thiruvananthapuram**

For developing fluorescent molecules and ink as security markers for the protection of Indian currency and prevention of counterfeit activities.

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Innovation



S Chandrasekhar, Ch. Raji Reddy, Prathama S. Mainkar, M. Mohana Krishna Reddy, N. Jagadeesh Babu, Punna Nagender

CSIR-Indian Institute of Chemical Technology , Hyderabad

For developing a cost-effective and scalable process for the synthesis of TLR 7/8 agonist molecule (IMDG), used as an adjuvant in COVAXIN® (COVID-19 vaccine).

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Innovation



Anjan Ray, Anil K Sinha, Saleem Akhtar Farooqui, Rakesh Kumar Baghel, Rakesh Kumar Joshi, Rohit Kumar, Parvez Alam, Tasleem Khan, C V Pramod, Anand Narani and Mohit Anand

CSIR-Indian Institute of Petroleum , Dehradun

For developing a single-step process to make Sustainable Aviation Fuel (SAF) from non-edible and used cooking oil.

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Sandip B. Bharate, Ajay Kumar, Sonali S. Bharate, Ram A. Vishwakarma, G.D. Singh and Deepika Singh

Certificate of Merit

CSIR- Indian Institute of Integrative Medicine, Jammu

For significant work in discovering preclinical development and out-licensing the Saffron-based nutraceutical product/ dietary supplement. The product is aimed at people who are at higher risk of developing Alzheimer's disease, including patients with early onset of disease.

Innovation



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A. Gangagni Rao, N. V. Satyanarayana, Y.V. Swamy, Bharath Gandu, Kranti Kuruti, Sameena Begum, Arelli Vijayalakshmi, Sudharshan Juntupally & Shruti Ahuja

Certificate of Merit

CSIR-Indian Institute of Chemical Technology, Hyderabad

For developing a novel high rate biomethanation technology based on Anaerobic Gas lift Reactor (AGR), for the generation of biogas and biomanure from organic wastes.

Innovation



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Business Development and Technology



S.K. Pal, Amitava Mitra, Beena Kumari, Mita Tarafder, Ashish Kr. Upadhyay, K.L. Hansda, K. Sudhakara Rao and G.V.S. Murthy

CSIR-National Metallurgical Laboratory, Jamshedpur

For introducing technology partnership and collaborative business models with Indian Industries, Foreign Clients and Multinationals. Appropriate business strategy has been adopted for technology development, licensing of knowledgebase, utilisation of infrastructural resources by the industries which led to a sustainable, cumulative growth of External Cash Flow and its positioning.

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Business Development and Technology



Pradeep Kumar Singh, Aditya Rana, R. D. Dwivedi, C. Sawmliana, Dr. Murari Prasad Roy & More Ramulu

Certificate of Merit

CSIR-Central Institute of Mining and Fuel Research, Dhanbad

For significant contributions in development of strategic and civil infrastructure sectors. Its technologies has helped in faster and cost effective constructions of roads in border areas; railways, tunnels and highways; crude oil storage and disposal of nuclear waste in underground space and constructions of metros in sensitive areas.

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Sukhjinder Singh

Certificate of Merit

CSIR-Institute of Himalayan Bioresource Technology, Palampur

For significant contribution to market, its technologies & services to farmers, industries, MSMEs & academia; and significantly enhancing its outreach.

