



Top 20 Grand Award Winners

Engineering: Material & Bioengineering	An Economical Early detecting and dosage monitoring tool for PEM	Swasthik Padma	Mohammed Suhail C S	St Aloysius P U College
Computer Science	An Inexpensive Solution for Visual Acuity Testing in Preverbal Children using Deep Convolutional Neural Networks	Ishita Mangla		Delhi Public School R K Puram
Computer Science	Architecture tweaking Image Analysis Software for Automated Detection of Land Features in Satellite Images	Param Singh Gujral		La Martiniere for Boys
Engineering: Electrical & Mechanical	ExoHeal - A modular exoskeletal device based on utilizing neuroplasticity and mirror learning to retrain the motor cortex and recover motor function in patients with hand stroke/paralysis	Zain Ahmed Samdani		Al Yasmin International School
Earth & Planetary Science	Studying planetary system formation through analysis of exoplanetary data	Antara Raaghavi Bhattacharya		GD Somani Memorial School
Computer Science	Connecting doctors for good using a Peer to Peer Lung Cancer Detection Program	Parth Raghav		Pusa Public School
Computer Science	Machine Learning Approach to Cancer Identification	Shinjini Ghosh		South Point High School
Physics	Determining space debris orbits for collision prediction using Chaos Theory	Aswath Suryanarayanan		Devi Academy Senior Secondary School
Plant Sciences	The Plant Doctor - An Artificial Intelligence Based Collaborative Platform for Plant Disease Identification and Tracking for Farmers	Kaushik Kunal Singh		Inventure Academy
Mathematics	Proof of the analogue of Szemerédi's theorem for rectangles, $n \times n$ lattice, cuboid and n -orthotope	Nishant Dhankhar		Delhi Public School, R K Puram
Mathematics	Solving a Mathematical Mystery: Schinzel's Conjecture	Sacheth Sathyanarayanan		National Public School, Chennai
Cellular & Molecular Biology	A novel approach to a p53 stabilizing agent to accelerate cell apoptosis to prevent malignancy and initiate cell arrest	Shuvayu Dasgupta	Syed Roshan Ali	La Martiniere for Boys



Microbiology	Biodetoxification of hexavalent chromium using anabaena cylindrica	Naisargik Lenka		DAV Public School, Unit-8
Microbiology	Insights into Bacterial Pathogenesis- Establishing Quorum Sensing as a novel virulence regulator	Harshit Jindal		Maharaja Agarsain Public School
Plant Sciences	Efficient and economical control of pests in rice through seedlings raised in soilless media using Nano biopesticides	A Siva bharathi		NSN Matriculation Higher Secondary School
Cellular & Molecular Biology	Epigenetically repressing endocrine disruptors through algal derivative for an obesity free world	Tanya Goyal	Sharen Mangalam Chamu Ganesh	Maharaja Agarsain Public School
Microbiology	Fabrication of Highly Specific Genosensor for the Detection of pathogenic E coli Using Uniquely Designed Molecular Tag from 16s r RNA Gene	Kunal Singh		Maharaja Agarsain Public School
Behavioral & Social Science	Creating self designed mazes for autistic people to map their analytical skills	Tanya Kaur Talwar	Akshat Gupta	Amity International School, Pushp vihar
Medicine & Health Sciences	Non-invasive self detection of asymptomatic acute myocardial infarction using BioElectrics: A translational investigation of transcutaneous blood analysis	Akash Manoj		The Ashok Leyland School
Environmental Sciences	Cost effective, Real-time monitoring of pollution in water bodies using a portable floating device	Pranav Shikarpur	Siddharth Viswanath	Bangalore International Academy

Table of Special Award Winners

Biochemistry	Sugar Testing Exhalometer	Rakshith Vyas	Ananth Gagan pappala	Sri Prakash Vidyaniketan
Behavioral & Social Science	Electrical learning aid for visually challenged children for gaining confidence to take up Engineering field which can elevate their status equal to sighted children and help in maintaining social relationship in	G Manasa	G Sushanth	Devnar School for the Blind

	the society.			
Cellular & Molecular Biology	A novel approach to a p53 stabilizing agent to accelerate cell apoptosis to prevent malignancy and initiate cell arrest	Shuvayu Dasgupta	Syed Roshan Ali	La Martiniere for Boys
Environmental Management	STINK MAP Monitoring Environmental Pollution by Detecting and Classifying Odors using a Simple and Easy to use Mobile Probe	Lalitha Pingali		0
Mathematics	Vector to People (V2P) Disease Prediction : A Differential Equation Approach	Ayush Sachdeva	Siddhant Mal	Springdales School
Mathematics	Proof of the analogue of Szemerédi's theorem for rectangles, $n \times n$ lattice, cuboid and n -orthotope	Nishant Dhankhar		Delhi Public School, R K Puram
Chemistry	A Nano Solution to Giga Nano Problems	Eshan Bajaj		Ryan International School Kharghar
Environmental Sciences	Cost effective, Real-time monitoring of pollution in water bodies using a portable floating device	Pranav Shikarpur	Siddharth Viswanath	Bangalore International Academy
Computer Science	RoadVisor A Smartphone App to Sense Bumpy Conditions of Indian Roads	Shreya Sandurkar		Amanora Pearson School



Computer Science	iThink: A wearable self-learning neurotransmitter with embedded database and trained neural networks for encoding EEG raw data enabling Brain to Text(BTT), Brain to Speech(BTS) and Brain to Command(BTC) for real-time BCI and machine learning applications.	Aman Shrivastava		St. Paul College Hudkeshwar
Plant Sciences	Efficient and economical control of pests in rice through seedlings raised in soilless media using Nano biopesticides	A Siva bharathi		NSN Matriculation Higher Secondary School
Microbiology	Biodetoxification of hexavalent chromium using anabaena cylindrica	Naisargik Lenka		DAV Public School, Unit-8