IRIS National Fair 2017

At the three-day national fair held from November 16-18, 2017 a total of 70 projects were showcased by 102 students vying for the IRIS Grand Awards. An expert jury comprising of 30 judges, including members of the IRIS Scientific Review Committee and PhD scholars from various reputed scientific institutions selected the top 20 projects.

Smt. MeenakshiLekhi Hon'ble Member of Parliament (Lok Sabha) New Delhi Constituency Chief Guest at the IRIS Inaugural Ceremony congratulated participants for their innovative projects.

The fair was open to public viewing on two days and drew students and science enthusiasts from schools and colleges in Delhi NCR. At the grand finale of the Initiative for Research & Innovation in Science (IRIS) Fair, the top 20 finalists were announced. The selected projects of these high school student innovators will represent India and compete with 75 other countries at the Intel International Science and Engineering Fair (Intel ISEF) 2018, to be held in May 2018 at Pittsburgh, Pennsylvania, U.S.A.

In addition, 10 Special awards were also presented, including the Society for Science and the Public Award for Community Innovation for 2017 -18.

Table of 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	IshitaMangla		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
Computer Science	Detection of Phishing Websites using Nature-inspired Optimization Algorithms and Machine Learning	SagnikAnupam		Philomena Aided High School, Puttur
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		K R Mangalam 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	AswathSuryanarayanan		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 Szemeredi's theorem for rectangles,n*n lattice,cuboid and n-orthotope	Nishant Dhankhar		Delhi Public School, R K Puram
Mathematics	Solving a Mathematical Mystery: Schinzel's Conjecture	SachethSathyanarayanan		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	ShuvayuDasgupta	Syed Roshan Ali	La Martiniere for Boys
Microbiology	Biodetoxification of hexavalent chromium using anabaena cylindrica	NaisargikLenka		DAV Public School, Unit-8
Microbiology	Insights into Bacterial Pathogenesis- Establishing Quorum Sensing as a novel virulence regulator	Harshit Jindal		Maharaja Agarsain Public School
Computer Sciences	Child safe Web browser based on age estimation from finger prints using DWT and SVD	ParitoshDahiya		DAV Multipurpose Public School
Cellular & Molecular Biology	Epigenetically repressing endocrine disruptors through algal derivative for an obesity free world	Tanya Goyal	SharenMangalamChamu 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, Pushpvihar
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
Enviromental Sciences	Cost effective, Real-time monitoring of pollution in water bodies using a portable floating device	Pranav Shikarpur	Siddharth Viswanath	Bangalore International Academy