The following are the results of the 2012 Michigan Science Fair held March 31, 2012 at Kettering University in Flint, Michigan. The Science Fair was the 18th Annual Michigan Science Fair with 58 students participating from the state. Five students won 4 year scholarships toward Kettering University, a total value of $80,000. The scholarships are payable at $5,000 per year for four years for each of the recipients.

Kettering University Scholarships

The following students will receive $20,000 scholarships for Kettering University, payable as $5,000 per year for four years.

Alexander Dutton, Erik Weston, Noah Kihata, and Terri O'Neal

GRAND AWARD

The following THREE Grand Award winners receive a certificate, and an all-expense paid trip to Pittsburgh, PA (May 13-18, 2012) where they will compete in the International Science and Engineering Fair.

Lilia Popova
- Project: Probing the Role of Nutrient Activity in Magnetically Induced Plant Growth
- Category: Botany
- Grade: 11
- School: Huron High School
- Teacher: Dr. Cinda-Sue Davis

Alexander M Dutton
- Project: from SPARK to LIGHTNING
- Category: Engineering
- Grade: 10
- School: Dutton Homeschool
- Teacher: Kathryn Dutton

Chengzhen L Dai
- Project: A Novel Bioassay Method to Detecting Chemical Water Contaminants
- Category: Environmental Science
- Grade: 12
- School: Detroit Country Day School
- Teacher: Gene Menton

FIRST PLACE

The following First Place winners receive a certificate and a $150 US Savings Bond

Jesse M Jenter
Project: Eluents from platelet-rich fibrin matrices constructs increase tendon cell pro
Category: Medicine & Health
Grade: 10
School: Detroit Catholic Central High School
Teacher: Steve Lemieux

SECOND PLACE

The following Second Place winners receive a certificate and a US $100 Savings Bond.

Ishan Mehta
Project: Detection of Efflux-Mediated Resistance in Clinical Isolates of S. agalactiae
Category: Microbiology
Grade: 12
School: Port Huron Northern High School
Teacher: Anna Jamison

Anusha Ponduri
Project: Role of Chemo-Resistant and miRNA Over-Expressing Cells in Colorectal Cancer
Category: Medicine & Health
Grade: 11
School: Detroit Country Day
Teacher: Gene Menton

Cody Liu
Project: Copper-Induced Changes in Locomotor Behavior, Cell Regeneration, and Enzyme Fu
Category: Environmental Science
Grade: 10
School: Detroit Country Day
Teacher: Gene Menton

Madhurima Das
Project: Fractal Dimension Analysis to Predict Cancer
Category: Mathematics
Grade: 10

School: Plymouth High School
Teacher: Michael Spitz

THIRD PLACE

The following Third Place winners receive a certificate and a $75 US Savings Bond

Vipul A Nandigala
Project: The Effect of Channel Geometery On Microfludic Vortex Flow
Category: Physics
Grade: 9
School: Walled Lake Western High School
Teacher: Thomas Saloka

Kyungmo E Ryu
Project: Divisibility Rule of 3 in different bases
Category: Mathematics
Grade: 10
School: Detroit Country Day School
Teacher: Ross Arseneau

Antonia L Busch
Project: Beta-carotene diet supplementation increases cholesterol level in chicken eggs
Category: Biochemistry
Grade: 12
School: Hillsdale Academy
Teacher: Christopher Heckel

Felicia N Patel
Project: The Effects of Green Tea and Ethanol on the Heart Rate of Daphnia
Category: Biochemistry
Grade: 9
School: Saginaw Arts & Science Academy
Teacher: Matthew Miller

Katherine L DuRussel

Project: Perfume or Poison? Using IR Spectroscopy to Test Perfumes for Phthalates
Category: Chemistry
Grade: 9
School: Reese High School
Teacher: Dr. Kenneth Kearns

Ashi Arora
Project: The Role of the Gene ZCF28 in Regulating Antifungal Resistance in C. albicans
Category: Microbiology
Grade: 9
School: Novi Senior High School
Teacher: James Didio

FOURTH PLACE

The following Fourth Place winners receive a certificate and a $50 US Savings Bond.

David Bai
Project: The Role of Bradykinin on Breast Cancer Cells
Category: Biochemistry
Grade: 12
School: Troy High School
Teacher: Rebecca Brewer

Aaron L Zeng
Project: Average Complexity of Quicksort
Category: Computer Science
Grade: 10
School: Detroit Country Dayt School
Teacher: Barry Webster

Sheeba Pawar
Project: Redefining the function of a pseudogene-junk DNA or an oncogene?
Category: Medicine & Health
Grade: 11
School: Huron High School
Teacher: Dr. Chandan Kumar-Sinha

Andrea A Pugh
Project: Invasive to Innovative: Phagmites Biochar Production Analysis of its Ability t
Category: Environmental Science

Grade: 12
School: Saginaw Arts & Sciences Academy
Teacher: John Barnes

John L Shinners
Project: The Effect of Protein Supplements on the Protein Concentration of Crickets
Category: Zoology
Grade: 12
School: Saginaw Arts & Sciences Academy
Teacher: Matthew Miller

Erik V Weston
Project: Controllable Tension Drumstick Assembly
Category: Engineering
Grade: 10
School: Dearborn Center for Math, Science & Tech
Teacher: Jeff Whittaker

Brian Xu
Project: Magnetic Field Effect on Microalgae for Biofuel Production
Category: Environmental Science
Grade: 12
School: Detroit Country Day Upper
Teacher: Gene Menton