

The 58<sup>th</sup> Science & Engineering Fair of Metropolitan Detroit (SEFMD) was held today, March 11, 2015 at Cobo Center. 1,242 students from 104 schools in Wayne, Oakland and Macomb counties competed at SEFMD, one of the longest running and largest science fairs in the world. The Senior Grand Award winners will compete at the state Science Fair on March 28 at the Michigan Science Center and at the International Science Fair May 10-15 in Pittsburgh, Pennsylvania.

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## 2015 Senior Division ISEF Finalists

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### Ashi Arora

Project: Interaction Between CD47 and EGF Receptors in Breast Cancer Stem Cells  
Category: Biochemistry  
Grade: 12  
School: Novi Senior High School  
Teacher: James Didio

### Isabel Hsu

Project: Effect of Cucumber Fruit Peel Extracts on Inhibition of Phytophthora Capsici  
Category: Botany  
Grade: 12  
School: Crestwood Senior High School  
Teacher: Diana Johns

### Dhruv Medarametla with Justin Xu

Project: Structural Properties of 2-Bijective Connection Networks  
Category: Mathematics  
Grade: 11  
School: Troy High School  
Teacher: Rebecca Brewer

### Amina Mustafa

Project: Composing Music with Sign Language Pattern Recognition  
Category: Computer Science  
Grade: 10  
School: Dearborn Center for Math, Science & Technology  
Teacher: Steve Scott

### Frank Wang

Project: Identification of MEG Biomarkers for Schizophrenia and its Subtype  
Category: Behavioral & Social Science  
Grade: 12  
School: Troy High School  
Teacher: Rebecca Brewer

**Jason Wu**

Project: Identification of DDR2 as a Critical Molecule in Breast Cancer Stem Cells  
Category: Medicine & Health  
Grade: 10  
School: Cranbrook Kingswood Upper School  
Teacher: Greg Miller

**Helen Xu**

Project: Feasibility of Metal-Organic Framework for Vehicular Storage of Natural Gas  
Category: Physics  
Grade: 10  
School: Detroit Country Day Upper  
Teacher: Ross Arseneau

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**2015 Junior Division**

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**Nabaha Abdul**

Project: Computer System Performance  
Category: Computer Science  
Grade: 7  
School: Huda School & Montessori  
Teacher: David Egan

**Zannatun Alim**

Project: Out for a Swim!  
Category: Biochemistry  
Grade: 8  
School: Detroit International Academy for Young Women-Middle School  
Teacher: Kavita Sadwal

**Leon Chen**

Project: The Effect of Plate Geometry on Capacitance  
Category: Physics  
Grade: 8  
School: Novi Middle School  
Teacher: Megan Gasidlo

**Kaylee Gagliardi**

Project: Voltage and Velocity  
Category: Chemistry  
Grade: 6  
School: Macomb Math, Science Technology Center - Middle School  
Teacher: Tuyen Duddles

**Brian Hall**

Project: Autism Awareness?  
Category: Behavioral & Social Sciences  
Grade: 7  
School: Ann Arbor Trail Magnet School  
Teacher: Valerie Booker-Bryant

**Rohit Mital**

Project: Using Geometry to Protect the Environment and Save Lives  
Category: Environmental Sciences  
Grade: 7  
School: Indus Center for Academic Excellence-Middle School  
Teacher: Allan Zhao

**Jada Lee Pinkney**

Project: Get the Floc Out of Here  
Category: Engineering  
Grade: 7  
School: Edward Duke Ellington Elementary-Middle at Beckham  
Teacher: Krystal Bolar

**Trenton Zylinski**

Project: Cell Phones, An Invisible Threat?  
Category: Medicine & Health  
Grade: 8  
School: All Saints Catholic School  
Teacher: Samantha Vendittelli

**Aasiyah Khan with Dana Alzohaili**

Project: Battle of the Blades  
Category: Team  
Grade: 8  
School: Huda School & Montessori  
Teacher: David Egan