



2015 Miami-Dade County STEM Expo Achievements

For the first time ever, since 2009, NMB students were acknowledged with numerous Special Awards at the Regional Science & Engineering Fair

Special Area Awards:

- Dade County Science Teachers Association (\$75 cash award & certificate): Said Bilani & Atiquel Islam
- National Association for the Advancement of Colored People (Certificate): Hillary Jean-Pierre & Wilhelgyne Rose
- University of Florida College of Agricultural & life Sciences Award of Merit Recipient (Ribbon): Wilhelgyne Rose

2015 MDCPS Science Expo \$500 scholarship to Miami-Dade College:

- Wilhelgyne Rose

Science Fair Placement Awards:

- Bronze Medal: Trevaun Williams
- Silver Medal: Mang Cing & Anastasiya Sizova
- Gold Medal: Said Bilani & Atiquel Islam, Hillary Jean-Pierre & Wilhelgyne Rose
- Certificate of Excellence: Said Bilani & Atiquel Islam, Hillary Jean-Pierre & Wilhelgyne Rose

State Finalists for the 2015 Science Fair:

- Said Bilani & Atiquel Islam
- Wilhelgyne Rose
- Hillary Jean-Pierre (Alternate)

*****Congratulations** to our NMB BEAM students and future scientists!***

Hats off to ALL!



In the final analysis, this experimental project seeks to find the purest form of tap water for drinking purposes (North Miami Beach, Miami Gardens – Skylake or Biscayne Bay) knowing that the water was derived from the Biscayne Aquifer. The hypothesis is that the water from Miami Gardens will be the purest form of tap water in terms of pH, Conductivity, Chloride ions Nitrate ions and Hardness.

Regional Science Fair Participant: **Said Bilani**



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Regional Science Fair Participant: **Atiquel Islam**



In the final analysis, this experiment seeks to find which acne medication (0.05% salicylic acid, 5% salicylic acid, and 70% ezoproprial alcohol) is most effective on reducing bacterial growth (*E. coli*), being that most teens suffer from mild to severe acne. It was hypothesized that the five percent salicylic acid would be the most effective because it contains agents that reduce inflammatory effects.

Regional Science Fair Participant: **Anastasiya Sizova**



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Regional Science Fair Participant: **Mangson Cing**



Throughout this research the methods that were originally proposed remained the same. After conducting all of our research when it came to the results that we obtained we figured out that WNT1 and Notch were the genes we needed, the main components of our results split into two parts: Injection and Rescuing. In terms of injecting the embryos were not only injected with the genes that were linked to the cerebellum (*syngap1*) but as well as injected with *syngap1* morpholino +human *syngap1* RNA.

Regional Science Fair Participant: **Wilhelgyne Rose**



The objective of this experiment was to determine the amount of Vitamin C in different fruit juices. This study is important as many people are now becoming health conscious and would like to receive as much nutrition as possible with little effort. The goal is to determine which of the juices tested would have the most Vitamin C.

Regional Science Fair Participant: **Trevaun Williams**



The objective of this experiment is to test the reliability of the Kastle-Meyer presumptive blood test by assessing food substances with a Kastle-Meyer presumptive kit. The hypothesis for this experiment is if food substances were to be tested in the Kastle-Meyer presumptive blood test to see if the Kastle-Meyer presumptive blood test is reliable, then the substances would prove that the Kastle-Meyer test is reliable.

Regional Science Fair Participant: **Hillary Jean-Pierre**