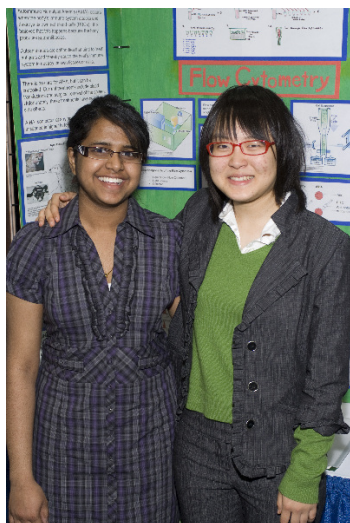


# CWSF 2009 - Winnipeg, Manitoba



## Gayani Gunathilake, Agatha Kang

### Characterization of Immunoglobulins in Canine Autoimmune Hemolytic Anemia(AIHA)

**Division:** Biotechnology / Environmental Innovation

**Category:** Senior

**Region:** Prince Edward Island

**City:** Charlottetown, PE, Charlottetown , PE

**School:** Charlottetown Rural H.S.

**Abstract:** Canine Autoimmune Hemolytic Anemia is mediated by the production of autoantibodies that bind to red blood cells, destroying them. Flow cytometry was used to determine which autoantibodies were responsible for mediating AIHA. It is hypothesized that autoantibody subtypes IgG and IgM bind to the surface of red blood cells. Results showed that IgG, IgG2 and IgM autoantibodies do play a role in mediating Canine AIHA.

#### Biographies

Gayani - My name is Gayani Gunathilake and I'm a 16 year old high school student. I came to Canada about 3 years ago and I live my family. I enjoy playing badminton and cricket. I also love nature. I'm volunteering at Charlottetown Boys and Girls Club and I also had participated in International Tea House (PEI). I also work at KFC as a part-time job. I (and my partner) participated in Sanofi-Aventis BioTalent (SABC) and won the third place in that competition. I (and my partner) also won the second place in 2009 Science Fair and we won three Speciality Prizes. They were "Best Animal-Related Project (animals of interest and applicability to Veter...

Agatha - My name is Agatha Yoo Hee Kang. I am studying at Charlottetown Rural High School in Prince Edward Island. Science has always been a part of me and it continues to enrich my life beyond measure. In fact, my curiosity and desire to learn more about science brought me this far, having the opportunity to participate at the National Science Fair. At the Provincial Science Fair, I won 2nd place with the project, and received several specialty awards titled: "Best Project Relevant to the Field of Laboratory Medicine or Health Care" and "Outstanding Project in the Areas of Nutritional and Health Sciences". I always seize opportunities as they...

#### Awards

#### Value

|   |              |
|---|--------------|
| Honourable Mention - Biotechnology & Pharmaceutical Sciences Senior | \$100        |
| Sponsor: Youth Science Canada                                       |              |
| <b>Total</b>  | <b>\$100</b> |