

Keynote Speaker



Tracy Mah was born and raised in Edmonton, and received her B.Sc. degree in Immunology and Infections from the U of A in 2009. Tracy is an alumnus of Old Scona Academic High School where she was introduced to the research world through the SABC.

She placed 4th in 2004 and 1st in 2005 in Edmonton and went on to earn 2nd place at the nationals. Tracy also won regionally and nationally at the Canada-wide Science Fair. In 2005, she was invited by the Province to present her research to the British Royal Family to showcase Alberta's budding talent. Since her involvement in the SABC program, she has continued to pursue her love of science and research.

Tracy's research recognitions include awards from the ARC, AHFMR and the U of A's Faculty of Medicine scholarship, which she has won for three consecutive years. Tracy has openly expressed her appreciation for the wonderful mentorship she received in the SABC program.

Tracy has mentored past SABC winners, young women in the WISEST program, and students in the Youth Science Foundation and Canadian Association for Girls in Science. Outside of her research, Tracy is a volunteer in a long-term care facility, French tutor, Canadian motivational speaker for Youth in Motions and the past Vice-Chair of Alberta Health Services Edmonton Community Health Council – to name a few.

Ms Mah has been awarded the U of A's Youth Investment Award, Canada's Top 20 Under Twenty Award, Alberta Science and Technology's Leader of Tomorrow Finalist Award and was the youngest recipient of the Alberta Centennial Medal. Tracy is working towards a career as a clinical researcher and has accepted a position to begin medical school in the fall of 2010.

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SABC 2010

Competition



Awards Ceremony

University of Alberta
Lister Hall

15 April 2010



For information contact BioAlberta:
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Regional Coordinator

Dr. Richelle Prickett

Schedule

- 4:30** Public Viewing Project Posters
- 5:00** Welcoming Remarks
- MC Richelle Prickett
- Sanofi Pasteur: TBD
- BioTalent Canada: Lee Wilson
- 5:30** Keynote Speaker
- Tracy Mah, SABC Alumnus, Medical Student
- 6:00** Student's Elevator Pitches
- 6:20** Special Mentor Recognition
- Dr. Denise Hemmings, U of A
- 6:30** Awards Presentations
- Merit Awards
- Best Elevator Pitch
- Most Commercially Viable
- Top 5 Team Prize Winners
- 7:00** Closing Remarks
- Ryan Radke, President
- Stand Up Reception



Effect of genetic and pharmacological manipulations on the behavioural and cognitive abilities of both wild type and forkhead mutated *Drosophila melanogaster*s

PARTICIPANTS: Carlos Jarquin, Patrick Pang
MENTOR: Dr. Francois Bolduc

Increasing the Fiber Content of a Gluten-Free Bread Formulation

PARTICIPANTS: Nhu Trieu, Aqib Shirazi, Nisha Patel
MENTORS: Dr's Thava Vasanthan & Michael Gaenzle

The Effect of the Amount of Trypsin on the Reduction of Peanut Allergens

PARTICIPANTS: Marian Kalayil, Laura Chen, Hong Feng
MENTOR: Dr. Harissios Vliagoftis

Manipulating the Reaction Rates of Stress Resistor Genes in Wheat through the use of Osmolytes

PARTICIPANTS: Catherine Tays, Bry Rousselle
MENTOR: Dr. Nat Kav

Cardioprotective Action of Lyophilized Red Wine, White Wine, and Grape Juice Extracts by Inhibition of the Proteolytic Actions of Matrix Metalloproteinase-2

PARTICIPANT: Katarina Ondrusova
MENTORS: Dr's Richard Schulz & Andrew Holt

The effects of ginger on the production of nitric oxide in endothelial cells

PARTICIPANTS: Miranda Stahn, Rupsha Mutsuddi
MENTOR: Dr. Denise Hemmings

Generating the scientific rationale for therapeutic potential of induced pluripotent stem cells for lung diseases

PARTICIPANTS: Katherine Fu, Andrew Qi, Jenny Shi
MENTOR: Dr. Bernard Thebaud

Identifying and Denaturing Toxic Regions of Recombinant Prion Proteins

PARTICIPANTS: Lanna Lan, Dianne Semeniuk
MENTOR: Dr. Valerie Sim

The Role of the PTEN/PI-3K Pathway in the Regulation of Subcellular Levels and Distribution of β -Catenin

PARTICIPANTS: Allan Kang, Amit Persad, HannahYu
MENTOR: Dr. Sujata Persad

Project Teams



Optimizing the Use of Organic Pigments in a Biological Solar Panel

PARTICIPANTS: Michael Meiers, Keita Hill
MENTOR: Dr. Kenneth C. Cadien

The Effect of the Durian (*Durio zibethinus*) on Alzheimer's Disease

PARTICIPANTS: Andrea Chang, Diya Shi, Jenny Lou
MENTOR: Dr. Jing Yang

Asthma: How about NO? The effect of estrogen on nitric oxide production in mast cells and their role in allergic disease

PARTICIPANTS: Kiho Son, Ty Kim
MENTOR: Dr. Dean Befus

The Effect of Growth Hormone on Neuroregeneration and Potential Implications for Multiple Sclerosis Treatment

PARTICIPANTS: Ying Ling, Lucy Ma, Julia Tan
MENTOR: Dr. Fabrizio Giuliani

Scientific rationale and therapeutic potential of endothelial colony forming cells to regenerate lung damage

PARTICIPANT: Moses Fung
MENTOR: Dr. Bernard Thebaud

Fatty Acids and the Efficacy of Chemotherapy for Breast Cancer

PARTICIPANT: Viane Faily
MENTOR: Dr. Catherine Field

Expression and Screening of Expansin Proteins to Aid in the Enzymatic Breakdown of Lignocellulosic Biomass

PARTICIPANTS: Karlin Su, Adam Thomson
MENTOR: Dr. David Bressler

Increasing MMP-9 Production in Astrocytes to Degrade Neural Amyloid Plaque

PARTICIPANTS: Eunice Ho, Kelson Mah, Vishnu Vasanthan
MENTOR: Dr. Jack Jhamandas

Therapeutic Effects of RNA Interference Against B16 Carcinoma Cells by Down-regulation of Survivin Expression

PARTICIPANT: Harvir Mann
MENTOR: Dr. Hasan Uludag

