



2016 CBS Graduate Student Symposium



8:30am – 9:00am	Registration	Science Complex (SSC) Atrium
9:00am – 10:00am	Session One: Oral Presentations	
	Glucose Uptake	SSC 1511
	Stress	SSC 3317
	Polysaccharides	SSC 2315
	Interdisciplinary	SSC 1504
10:00am – 10:20am	Coffee Break	Science Complex (SSC) Atrium
10:20am – 11:20am	Keynote Speaker: Dr. Jessica Grahn	Science Complex (SSC) Atrium
11:30am – 12:30pm	Session Two: Oral Presentations	
	3-Minute Theses (3MT)	SSC 3317
	Population Dynamics	SSC 1511
	Lipids	SSC 2315
	Adipose Tissue	SSC 1504
12:30pm – 2:00pm	Complimentary Lunch	Science Complex (SSC) Atrium
1:00pm – 1:25pm	Roundtable Discussion with Dr. Grahn I	SSC 1504
1:30pm – 1:55pm	Roundtable Discussion with Dr. Grahn II	SSC 1504
2:00pm – 3:15pm	Session Three: Oral Presentations	
	Muscles and Movement	SSC 1511
	Genes/DNA	SSC 3317
	Plant Physiology	SSC 2315
	Ecosystems	SSC 1504
3:15pm – 4:30pm	Poster Presentations and Social	Science Complex (SSC) Atrium

Thank you to the following for sponsoring this year's Graduate Student Symposium:

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Graduate Student Association

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The 2016 CBS Graduate Student Symposium Organizers:

Shawn Beaudette, HHNS
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Liz Johnston, IBIO
Sahar Mehrpooyan, MCB
Dita Moravek, HHNS

Lily Nasanovsky, MCB
Trevor Partch, IBIO
Katie Sutor, HHNS
Glen Van Der Kraak, ADR
Karen White, ADR
Derek Zwambag, HHNS



Oral Presentation Schedule

Time		SSC 1511	SSC 3317	SSC 2315	SSC 1504
	Session Title	Glucose uptake	Stress	Polysaccharides	Interdisciplinary
9:00-10:00	Speakers	Daniel Cervone	Jenna Penney	Ashley Brott	Mark Minow
		Dita Moravek	Trevor Partch	Francesca Herlihey	Tzitziki Loeza Quintana
		Erica Rogers	Simon Hoffman	Evan Mann	Andy Turko
		Adrian Taylor	Laura MacRae	David Sychantha	Paula Miotto
		Mike Underschultz	Kelly Levesque	Megan Brasher	Sara Timpano
10:20-11:20	Keynote address	Science Complex (SSC) Atrium			
	Session Title	Population Dynamics	3-Minute Theses	Lipids	Adipose Tissue
11:30-12:30	Speakers	Kiera Newman	Eleanor Harvey	Michal Pyc	Meaghan Kavanagh
		Matthew Brachmann	Kaitlin Oliphant	Samantha Watt	Danyelle Liddle
		Julia Kilgour	Antonio Pezzutto	Barbora Hucik	Jessie MacKinnon
		Simon Denomme-Brown	Kaitlin Roke	Xinjie Lin	Amber Hutchinson
					Sarah Trotter
12:30-2:00	Lunch	Science Complex (SSC) Atrium			
	Session Title	Muscle/Movement	Genes/DNA	Plant Physiology	Ecosystems
2:00-3:15	Speakers	Alanna Whinton	Fatima Chleilat	Greg MacNeill	Christian Carlucci
		Kelsey Gsell	Julia Hooker	Jenelle Patterson	Timothy Bartley
		Willem Peppler	Hollie Rowlands	Kiah Barton	Zhichao Jiao
		Daniel Pyc	Sanna Abbasi	Cole Anderson	Carolyn Trombley
		Laura Castellani			
3:15-4:30	Posters	All Posters			



Oral presentation titles listed by presenter

Sanna	Abbasi	The impact of subtelomeric DNA on epigenetic switching in <i>Saccharomyces cerevisiae</i>	SSC 3317	2:00PM
Cole	Anderson	The roll of non-specific phospholipase 4 and 5 (NPC4&5) in phosphate starvation and plastid behavior	SSC 2315	2:00PM
Timothy	Bartley	Patterns in habitat coupling by top predators and intermediate consumers in Canadian boreal shield lake food webs	SSC 1504	2:00PM
Kiah	Barton	Investigation of plastid-ER interactions in <i>Arabidopsis thaliana</i>	SSC 2315	2:00PM
Matthew	Brachmann	A test of parallelism in the axes of morphological and ecological divergence in Arctic charr	SSC 1511	11:30AM
Megan	Brasher	Analysis of Munc18c and Syntaxin4 Function During Tumor Cell Invasion in MDA-MB-231 Cells	SSC 2315	9:00AM
Ashley	Brott	Identifying the First Inhibitors of Peptidoglycan O-Acetyltransferases	SSC 2315	9:00AM
Christian	Carlucci	Examining the effects of defined microbial ecosystems on the growth and virulence of <i>Clostridium difficile</i>	SSC 1504	2:00PM
Laura	Castellani	Acute Exhaustive Exercise Protects Against Olanzapine-Induced Hyperglycemia In Male C57BL/6J Mice	SSC 1511	2:00PM
Daniel	Cervone	The direct effects of acylated and deacylated ghrelin on skeletal muscle glucose uptake	SSC 1511	9:00AM
Fatima	Chleilat	Effect of genetic variation in salt taste receptors in relation to eating behaviour and cardiovascular disease risk factors in the Guelph Family Health Study	SSC 3317	2:00PM
Simon	Denomme-Brown	Negative Density Dependent Dispersal in a Small Mammal	SSC 1511	11:30AM
Kelsey	Gsell	Multifidus and erector spinae muscle fibre passive stiffness is lower in concert with greater lumbar spine neutral zone stiffness in <i>ENT1</i> -deficient mice	SSC 1511	2:00PM
Francesca	Herlihey	The lytic activity of the dedicated autolysin for flagella formation SlfF is modulated by flagella rod proteins FlgB and FlgF	SSC 2315	9:00AM
Simon	Hoffman	The potential for n-3 polyunsaturated fatty acids to attenuate the hypoxic response in an <i>in vitro</i> model of obese adipose tissue	SSC 3317	9:00AM
Julia	Hooker	Genetic diversity analysis of Grapevine rupestris stem pitting-associated virus in Ontarian vineyards	SSC 3317	2:00PM
Barbora	Hucik	The modulation of leptin and adiponectin signaling by fish oil-derived n-3 polyunsaturated fatty acids to mitigate breast cancer development in obesity	SSC 2315	11:30AM
Amber	Hutchinson	The potential for n-3 and n-6 polyunsaturated fatty acids to attenuate the metabolic consequences of inflammatory cross-talk between macrophages and myocytes	SSC 1504	11:30AM
Zhichao	Jiao	Effects of deciduous forest expansion triggered by wildfire on long term soil carbon storage in boreal forest, Alaska	SSC 1504	2:00PM
Meaghan	Kavanagh	Investigating the potential synergy between apple polyphenols and fish oil-derived n-3 polyunsaturated fatty acids to mitigate adipocyte inflammation and dysfunction in obesity	SSC 1504	11:30AM
Julia	Kilgour	The relationship between density and group composition in the evolution of aggression	SSC 1511	11:30AM
Kelly	Levesque	Effects of warm temperature on the hypoxia response of developing zebrafish	SSC 3317	9:00AM



Danyelle	Liddle	Fish oil supplementation of a high fat diet mitigates adipocyte dysfunction induced by inflammatory cross-talk with CD8 ⁺ T cells, in part through a TNF α -dependent mechanism	SSC 1504	11:30AM
Xinjie	Lin	<i>In vitro</i> digestion microstructure, digestibility and bioaccessibility of a DHA-rich emulsion were impacted by pectin and gastric pH	SSC 2315	11:30AM
Tzitziki	Loeza Quintana	Iterative calibration: a novel approach for calibrating the molecular clock using the Bering Strait	SSC 1504	9:00AM
Jessie	MacKinnon	Diets high in n-3 and n-6 polyunsaturated fatty acids differentially influence serum and mammary gland fatty acid composition in delta-6 desaturase knockout mice	SSC 1504	11:30AM
Greg	MacNeill	Regulation of Starch Branching Enzymes in Arabidopsis by Post-Translational Modification	SSC 2315	2:00PM
Laura	MacRae	The relationship between home environment chaos, blood cortisol levels, and dietary fat intake among parents in the Guelph Family Health Study	SSC 3317	9:00AM
Evan	Mann	ABC transporters and the export of bacterial polysaccharides	SSC 2315	9:00AM
Mark	Minow	mRNA and sRNA profiling reveal novel components of a floral regulatory pathway in <i>Zea mays</i>	SSC 1504	9:00AM
Paula	Miotto	Resveratrol consumption and RIP140 knockout mice reveal a novel relationship between increased mitochondrial content and compromised bone mineral mass, microarchitecture, and strength	SSC 1504	9:00AM
Dita	Moravek	Substituting lentils for white rice significantly reduces glycemic index and postprandial blood glucose response	SSC 1511	9:00AM
Kiera	Newman	Does Exposure to Neonicotinoids Affect the Migratory Physiology and Behaviour of Monarch Butterflies?	SSC 1511	11:30AM
Trevor	Partch	Anti-steroidogenic effects of corticotropin releasing factor (CRF) in the ovary of the zebrafish, <i>Danio rerio</i>	SSC 3317	9:00AM
Jenelle	Patterson	Starch synthase 2 post-translational regulation and starch biosynthesis in <i>Arabidopsis thaliana</i>	SSC 2315	2:00PM
Jenna	Penney	Feeling stressed out easily: LUMAN/CREB3 may hold the key to a solution	SSC 3317	9:00AM
Willem	Peppler	Habitual physical activity protects against lipopolysaccharide-induced inflammation in subcutaneous adipose tissue	SSC 1511	2:00PM
Daniel	Pyc	Wrist versus hip accelerometer placement for tracking physical activity in pre-school children: a methodological study	SSC 1511	2:00PM
Michal	Pyc	Identification and characterization of a novel lipid droplet protein in <i>Arabidopsis</i>	SSC 2315	11:30AM
Erica	Rogers	Characterizing the shape of the postprandial glycemic curve: An investigation within the Love of Lentils Clinical Trial	SSC 1511	9:00AM
Hollie	Rowlands	Association of CAF-1 and Rrm3p with paused replication forks	SSC 3317	2:00PM
David	Sychantha	PatB1 Mediates Direct O-Acetylation of Secondary Cell Wall Polysaccharide and is a Determinant of S-layer Assembly in <i>Bacillus anthracis</i>	SSC 2315	9:00AM
Adrian	Taylor	Choline Supplementation Improves Energy Homeostasis in Insulin Resistant and Pcyt2 Deficient Skeletal Muscle	SSC 1511	9:00AM
Sara	Timpano	Investigating oxygen sensing and translational control under physiological oxygen conditions	SSC 1504	9:00AM
Carolyn	Trombley	Alien invasion: Effects of the release of a bait fish on the abundance and distribution of a critically endangered endemic fish in the Virgin River	SSC 1504	2:00PM
Sarah	Trottier	Exercise and Dairy Protein Interactions in the Treatment of Obesity and Adipose Tissue Inflammation	SSC 1504	11:30AM



Andy	Turko	Ambient CO ₂ , fish behaviour and altered GABAergic neurotransmission: exploring the mechanism of CO ₂ -altered behaviour by taking a hypercapnia dweller down to low CO ₂ levels	SSC 1504	9:00AM
Michael	Underschultz	Investigating the Effect of Anthocyanin Rich Diets on Insulin Sensitivity in Zucker Rats	SSC 1511	9:00AM
Samantha	Watt	<i>Arabidopsis At3g11620</i> encodes an evolutionarily conserved protein involved in the intracellular positioning of cytosolic lipid droplets	SSC 2315	11:30AM
Alanna	Whinton	Assessing the reliability and validity of a novel robotic resistance system for use as an isokinetic dynamometer	SSC 1511	2:00PM

3-Minute theses titles listed by presenter

Eleanor	Harvey	The Impact of Copper and Nickel Exposure on rDNA Recombination Rate and Mutation rate, and Transposon Activity in Mutation Accumulation Lines of <i>Daphnia pulex</i>	SSC 3317	11:30AM
Kaitlyn	Oliphant	Optimization of metabolomics of defined <i>in vitro</i> gut microbial ecosystems	SSC 3317	11:30AM
Antonio	Pezzutto	The Membrane Topology of Tomato (<i>Solanum lycopersicum</i>) Dolichol Synthase	SSC 3317	11:30AM
Kaitlin	Roke	Awareness and Knowledge of Individual Omega-3 Fatty Acids in Young Adults	SSC 3317	11:30AM

Poster Presentations

1. Caleb Axelrod	IB	24. Wadood Malik	MCB
2. Alison Berezuk	MCB	25. Ziad Marroushi	MCB
3. Kelly Boddington	MCB	26. Will Martin	MCB
4. Elie Chamoun	HHNS	27. Rachael McNeilly	MCB
5. Sherise Charles	MCB	28. Sahar Mehrpooyan	MCB
6. Alexandra Coates	HHNS	29. Julia Mirotta	HHNS
7. Chelsea Coumoundouros	MCB	30. Lily Nasanovsky	MCB
8. Chris Czaniecki	MCB	31. Amanda Poole	MCB
9. Katherine Drotos	IB	32. Richard Preiss	MCB
10. Aaron D'Silva	HHNS	33. Kathryn Reynolds	MCB
11. Rasem El-Fahkhri	HHNS	34. Nathaniel Secord	MCB
12. Karen Gonzalez	MCB	35. Joshua Slys	HHNS
13. Christopher Greyson-Gaito	IB	36. Alexander Stirling	MCB
14. Hailey Hunter	IB	37. Manali Tilak	MCB
15. Steven Huszczyński	MCB	38. Warren van Loggerenberg	MCB
16. Jasmine Ichhpuniani	HHNS	39. Joseph Varga	MCB
17. Anthony Incognito	HHNS	40. Lisette Verzijlenberg	MCB
18. Darren Kelly	IB	41. You Wang	MCB
19. Nicole Kelly	MCB	42. Samantha Wear	MCB
20. Felipe Kullmann Duarte	HHNS	43. Alexander Weiss	MCB
21. Sean Liston	MCB	44. Danielle Williams	MCB
22. Haidun Liu	MCB	45. Zhenhua Xu	MCB
23. Quan Ly	HHNS	46. Haley Yorke	IB

