Insect Biotech Conference – 2015

Conference Schedule

Wednesday Evening – June 3

6:00 pm	Registration: Outside Newman Room
7:00 pm	Plenary Talk: Newman Room "JUVENILE HORMONE SYNTHESIS AND REPRODUCTION IN MOSQUITOES" [Page 1] Fernando G. Noriega, Department of Biological Sciences, Florida International University, Miami, Fl, USA. <u>http://biology.fiu.edu/people/faculty/fernando-noriega/</u>
7:45 – 9:00 pm	Reception: Outside Newman Room (Pizzeria, Beer and Wine)

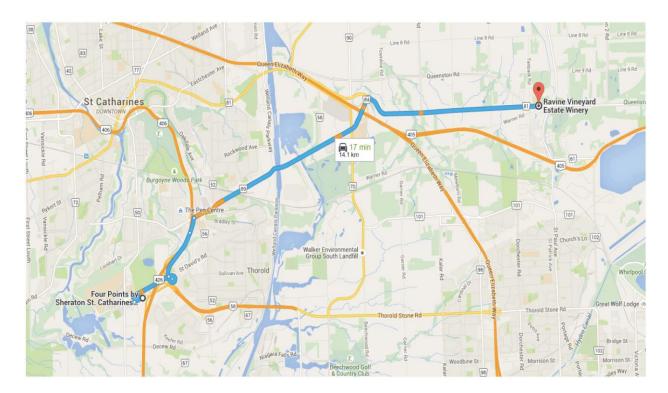
Thursday, June 4

7:45 – 9:00 am	Breakfast: Topaz Room (The All Canadian)
9:00 am	Opening Remarks: Ian Orchard
Session Chair:	Ian Orchard
9:10 am	THE PRESENCE AND FUNCTIONS OF INSULIN-LIKE PEPTIDES IN <i>RHODNIUS PROLIXUS. [Page 2]</i> <u>Defferrari, M.S.,</u> Orchard, I. and Lange, A.B. Department of Biology, University of Toronto Mississauga, Mississauga, ON, Canada.
9:30 am	ISOLATION AND CHARACTERIZATION OF CORTICOTROPIN RELEASING FACTOR-LIKE DIURETIC HORMONE RECEPTOR IN <i>RHODNIUS PROLIXUS. [Page 3]</i> Lee, HR., Zandawala, M. and Orchard, I. Department of Biology, University of Toronto Mississauga, Mississauga, ON
9:50 am	CAPA PEPTIDE BIOLOGY IN ADULT MOSQUITOES: AN ANTI-DIURETIC FACTOR IN <i>AEDES AEGYPTI.</i> [<i>Page 4</i>] AlDhaheri, A., Uyuklu, A. Bhatt, G. and <u>Paluzzi J.P.</u> Department of Biology, York University, Toronto, ON, Canada.
10:10 am	A PROTEIN EXPRESSION ANALYSIS OF THE LEUCINE-RICH REPEATS- CONTAINING GPCR, LGR1, IN THE ADULT YELLOW FEVER MOSQUITO, I. [Page 5] <u>Rocco, D.A.</u> , Kim, D.H. and Paluzzi J.P. Department of Biology, York University, Toronto, ON, Canada.

10:30 – 10:50 am Coffee Break: Outside Newman Room

Session Chair:	Angela Lange
10:50 am	SECRETION OF Na ⁺ , K ⁺ AND FLUID BY THE MALPIGHIAN TUBULE OF THE LARVAL CABBAGE LOOPER, <i>TRICHOPLUSIA NI</i> . [<i>Page 6</i>] <u>Ruiz-Sanchez, E.¹, O'Donnell, M.J.¹, and Donini, A.² ¹ Department of Biology, McMaster University. ² Department of Biology, York University.</u>
11:10 am	EXPRESSION AND dsRNA KNOCKDOWN OF PUTATIVE AMMONIA TRANSPORTERS IN LARVAL MOSQUITO, <i>AEDES AEGYPTI.</i> [<i>Page 7</i>] Chasiotis H. ¹ , Ionescu A. ¹ , Bui P. ¹ , Misyura L. ¹ , Weihrauch D. ² , and <u>Donini A.¹</u> ¹ Department of Biology, York University, Toronto, Canada ² Department of Biological Sciences, University of Manitoba, Winnipeg, Canada
11:30am	THE INVOLVEMENT OF SULFAKININS IN THE CONTROL OF FEEDING IN RHODNIUS PROLIXUS. [Page 8] Al-Alkawi, H., Lange, A. B. and Orchard, I. Department of Biology, University of Toronto Mississauga, Mississauga, ON, Canada.
11:50 am	MECHANISMS OF PROCTOLIN-INDUCED CONTRACTIONS IN DROSOPHILA. [Page 9] Mercier, A.J., Shahid, M., Jung, J., Brown, C., and Ormerod, K. Department of Biological Sciences, Brock University, St. Catharines, ON, Canada.
12:10 – 1:20 pm	Lunch Break: Topaz Room (Bagel Bar)
Session Chair:	Michael O'Donnell
1:20 pm	K ⁺ and H ⁺ TRANSPORT MECHANISMS OF THE <i>DROSOPHILA</i> GUT EPITHELIA. [<i>Page 10</i>] <u>D'Silva, N.M.</u> and O'Donnell, M.J. Department of Biology, McMaster University, Hamilton, ON, Canada
1:40 pm	CALCIUM TRANSPORT BY ISOLATED MALPIGHIAN TUBULES OF DROSOPHILA MELANOGASTER. [Page 11] Browne, A. A. and O'Donnell, M.J. Department of Biology, McMaster University, Hamilton, ON, Canada.
2:00pm	EFFECTS OF ALTERED EXPRESSION OF THE KEAP1/CNCC PATHWAY ON SECRETION OF ORGANIC TOXINS BY MALPIGHIAN TUBULES OF DROSOPHILA MELANOGASTER. [Page 12] Kaas, M.H.L. and O'Donnell, M.J. Department of Biology, McMaster University, Hamilton, ON, Canada.
2:20 pm	AN EXTRACELLULARLY RECORDED SYNAPTIC POTENTIAL ASSOCIATED WITH MOTOR NERVES OF VAGINA MUSCLES IN THE INSECT VECTOR OF CHAGAS DISEASE, <i>RHODNIUS PROLIXUS</i> . [Page 13] Chiang, R.G. Biology Department, Redeemer University College, Ancaster, ON, Canada.

2:40 – 3:00 pm	Coffee Break
Session Chair:	Joffre Mercier
3:00 pm	CHARACTERIZATION OF LONG NEUROPEPTIDE F (NPF) AND ITS ROLE IN FEMALE REPRODUCTION OF THE CHAGAS DISEASE VECTOR, <i>RHODNIUS PROLIXUS</i> . [<i>Page 14</i>] Sedra, L. and Lange, A.B Department of Biology, University of Toronto Mississauga, Ontario, Canada
3:20 pm	IDENTIFICATION AND CHARACTERIZATION OF THE ADIPOKINETIC HORMONE/CORAZONIN-RELATED PEPTIDE (ACP) SIGNALING SYSTEM IN RHODNIUS PROLIXUS. [Page 15] <u>Zandawala, M.</u> , Haddad, A., Hamoudi, Z. and Orchard, I. Department of Biology, University of Toronto Mississauga, Mississauga, Canada.
3:40pm	ISOLATION AND CHARACTERIZATION OF THE CORAZONIN RECEPTOR IN THE KISSING BUG, <i>RHODNIUS PROLIXUS.</i> [<i>Page16</i>] <u>Hamoudi, Z.</u>, Orchard, I. and Lange, A.B. Department of Biology, University of Toronto Mississauga, Mississauga, Ontario, Canada.
4:00pm	End of Session
6:00 pm	Ravine Vineyard Estate Winery, 1366 York Rd, St. Davids, ON, L0S 1P0, (Historic Wine Tour & Tasting)
7:15 pm	Conference Dinner, Ravine Vineyard Estate Winery, 1366 York Rd, St. Davids, ON, L0S 1P0



o Four Points by Sheraton St. Catharines Niagara Suites 3530 Schmon Parkway, Thorold, ON L2V 4Y6

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• Ravine Vineyard Estate Winery 1366 York Road, St. Davids, ON LOS 1P0

Friday, June 5

7:45 – 9:10 am	Breakfast: Topaz Room (The All Canadian)
Session Chair:	Daniel Doucet
9:10 am	ORAL ADMINISTRATION OF TAT-PTD-DIAPAUSE HORMONE FUSION PROTEIN INTERFERES WITH HELICOVERPA ARMIGERA DEVELOPMENT. [Page 17] Zhou, Z. ¹ , Li, Y. ¹ , Yuan, C. ¹ , Zhang, Y. ² and Qu, L. ² ¹ College of Forestry, Henan University of Science and Technology, China ² Key Laboratory of Forest Protection, State Forestry Administration, Research Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forestry, Beijing, China.
9:30 am	POSSIBLE ROLES OF <i>ME53</i> IN BACULOVIRUS TRANSCRIPTIONAL REGULATION. [PAGE 18] Liu, Y., ¹ Nagy, E. ² and Krell, P.J. ¹ ¹ Department of Molecular and Cellular Biology ² Department of Pathobiology, University of Guelph, Guelph, ON, Canada.
9:50 am	MEASURING THE MAMESTRA CONFIGURATA NUCLEOPOLYHEDROSIS VIRUS TRANSCRIPTOME: A TALE OF TWO TECHNOLOGIES. [Page 19] <u>Donly, B.C.¹</u> , Theilmann, D.A. ² , Hegedus, D.D. ³ , Baldwin, D. ³ and Erlandson, M.A. ³ ¹ Southern Crop Protection & Food Research Centre, AAFC, London, ON Canada ² Pacific Agri-Food Research Centre, AAFC, Summerland, B.C. Canada ³ Saskatoon Research Centre, AAFC, Saskatoon, SK, Canada
10:10 – 10:30 am	Coffee Break: Outside Newman Room
Session Chair:	Jean-Paul Paluzzi
10:30 am	TRANSCRIPTOME ANALYSIS OF THE EMERALD ASH BORER (EAB), AGRILUS PLANIPENNIS: <i>DE NOVO</i> ASSEMBLY, FUNCTIONAL ANNOTATION AND COMPARATIVE ANALYSIS. [<i>Page 20</i>] <u>Duan, J.^{1,4}</u> , Ladd, T. ¹ , Doucet, D. ¹ , Cusson, M. ² , van Frankenhuyzen, K. ¹ , Mittapalli, O. ³ , Krell, P.J. ⁴ and Quan, G. ¹ ¹ Great Lakes Forestry Centre, Natural Resources Canada, Sault Ste. Marie, Ontario, Canada; ² Laurentian Forestry Centre, Canadian Forest Service, Natural Resources Canada, Québec City, Québec, Canada; ³ Department of Entomology, Ohio Agricultural and Research Development Center, The Ohio State University, Wooster, Ohio, United States of America; ⁴ Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada.
10:50 am	ADVENTURES IN INSECT CELL LINE DEVELOPMENT: ESTABLISHMENT OF TWO BEETLE CELL LINES AND STUDY OF THEIR RESPONSE TO CHEMICAL INSECTICIDES. [Page 21] Wen, F. ^{1,2} , Caputo, G. ² , Hooey, S. ² , Bowman,, S. ² , Pinkney, K. ² , Krell, P.J. ¹ , Arif, B. ² , Duan, J. ^{1,2} , Quan, G. ² and <u>Doucet, D.^{2,3}</u> ¹ Department of Molecular & Cellular Biology, University of Guelph, Guelph, Ontario, Canada, N1G 2W1 ² Canadian Forest Service, Natural Resources Canada, 1219 Queen St. East, Sault Ste Marie, Ontario, Canada, P6A 2E5

11:10 am	ECDYSONE INDUCTION AND CHITIN-BINDING PROPERTIES OF THE CHORISTONEURA FUMIFERANA CHITIN DEACETYLASE 2. [Page 22] Quan, G. ¹ , Duan, J. ^{1, 2} , Doucet, D. ¹ , Ladd, T. ¹ , Cusson, M. ^{3, 4} , and Krell, P.J. ² ¹ Great Lakes Forestry Centre, Natural Resources Canada, Sault Ste. Marie, ON, Canada. ² Department of Molecular and Cellular Biology, University of Guelph, Guelph, ON, Canada. ³ Laurentian Forestry Centre, Natural Resources Canada, Québec City, Québec, Canada.
11:30 - 12:00 noor	Check out of hotel rooms
11:45 – 1:00 pm	Lunch Break: Topaz Room (Pasta Buffet)
Session Chair:	Andrew Donini
1:00 pm	THE EFFECTS OF THE ENTOMOTOXIN JACKBEAN UREASE ON INSECT NEUROMUSCULAR SYSTEM. [<i>Page 23</i>] Freitas, T.C. ^{1,2} , Orchard, I. ¹ , Lange, A.B. ¹ , and Carlini, C.R. ² ¹ Department of Biology, University of Toronto Mississauga, Mississauga, ON, Canada; ² Center of Biotechnology, Universidade Federal do Rio Grande do Sul, and Brain Institute, Pontificia Universidade Catolica do Rio Grande do Sul, Porto Alegre, Brazil.
1:20 pm	FLIGHTS OF FANCY: CHEMICAL ECOLOGY OF NEOTROPICAL CYCADS (ZAMIACEAE) AND THEIR LEAF HERBIVORES. [<i>Page 24</i>] Prado,A., Chatel-Launay, N., Windsor,D. and <u>Bede, J.C.</u> Plant Science, McGill University, Montreal, QC, Canada
1:40 pm	NEUROPEPTIDERGIC CONTROL OF FEEDING IN STARFISH: CHARACTERIZATION OF THE SALMFAMIDE SIGNALING SYSTEM. [Page 25] Zandawala, M., Egertová, M., Rowe, M. and Elphick, M. School of Biological & Chemical Sciences, Queen Mary University of London, London, UK
2:00 – 2:10pm	Closing Remarks
2:10 pm	End of Conference