

Insect Biotech Conference – 2006

Conference Schedule

Wednesday Evening – June 14

- 6:00 pm **Registration:** Outside Newman Room
- 7:00 pm **Plenary Talk:** Newman Room
Erwin Huebner, University of Manitoba
The *Rhodnius prolixus* Genome Project: Its inception and the opportunities and challenges that stem from it.
- 7:45 - 10:00 pm **Reception:** Outside Newman Room

Thursday, June 15 Newman Room

- 8:50 am **Opening Remarks:** Ian Orchard
- Session Chair: Ian Orchard
- 9:00 am Donini, A., Gaidhu, M.P., Strasberg, D.R. and M.J. O'Donnell (McMaster University) **Salinity changes and rapid regulation of ion transport by anal papillae of mosquito larvae.**
- 9:20 am Ruiz-Sanchez, E. and M.J. O'Donnell (McMaster University) **Characterization of salicylate uptake across the basolateral membrane of the malpighian tubules of *Drosophila melanogaster*.**
- 9:40 am Paluzzi, J.-P. and I. Orchard (University of Toronto at Mississauga) **Identification and characterization of CAP2b/ (CAPA)-related peptides controlling anti-diuresis in *Rhodnius prolixus***
- 10:00 am Te Brugge, V.A. and I. Orchard (University of Toronto at Mississauga) **The distribution and activity of DH₃₁-like peptides in two hemipterans, *Rhodnius prolixus* and *Oncopeltus fasciatus*.**
- 10:20 – 10:50 am **Coffee Break:** Outside Newman Room
- Session Chair: Angela Lange
- 10:50 am Donly, C., Verellen, L.A., Cladman, W. and S. Caveney (Southern Crop Protection and Food Research Centre and University of Western Ontario) **Monoamine reuptake transporters in insects and beyond.**

- 11:10 am Clark, J., Milakovic, M and A.J. Mercier (Brock University) **Postsynaptic mediation of DPKQDFMRamide actions on larval *Drosophila* body wall muscles.**
- 11:30 am Bendena, W.G. (Queen's University) **Allatostatins: an invertebrate neuropeptide superfamily.**
- 11:50 - 12:30 pm **Short Exposures** (5 minute talks)
- Clark, L. and A.B. Lange (University of Toronto at Mississauga) **The distribution and physiological roles of allatostatin in the locust, *Locusta migratoria*.**
- Slater, S.J., Chin-sang, I., Tobe, S. and W. Bendena (Queen's University and University of Toronto) **Elucidating putative allatostatin function in the nematode *C. elegans*.**
- Lungchukiet, P. (Queen's University) **Molecular cloning and characterization of allatostatin-like receptors (AlstR) from the cockroach *Diploptera punctata*.**
- Gonzalez, R.G. and I. Orchard (University of Toronto at Mississauga) **Characterization of neuropeptide F-like material in the Hemipteran, *Rhodnius prolixus***
- Burtenshaw, S.M. (Queen's University) **Overexpression of farnesoic acid *o*-methyltransferase and juvenile hormone acid methyltransferase in *Drosophila melanogaster*.**
- 12:30 – 2:00 pm **Lunch Break and Discussion:** Outside Newman Room
- Session Chair: Cam Donly
- 2:00 pm Yang, D.H., Barari, M., Arif, B. and P. Krell (University of Guelph and Great Lakes Forestry Centre) **DNA microarray analysis of temporal regulation of 23 *Choristoneura fumiferana* nucleopolyhedrovirus (CfMNPV) genes and their complements.**
- 2:20 pm Carstens, E.B. and M. Yu (Queen's University) **Analysis of AcMNPV *lef-3* and *p143* Null Bacmids Following Transfection into Sf21 Cells.**
- 2:40 pm Finnerty, C.M., Arif, B. and P. J. Krell (Queen's University and Natural Resources Canada) **Baculovirus fibroblast growth factors: analysis of structure-based predictions.**
- 3:00 – 3:30 pm **Coffee Break**
- 3:30 pm de Jong, J., Theilmann, C.A., Arif, B.M. and P. J. Krell (University of Guelph, Agriculture and Agri-Food Canada, and Great Lakes Forestry Research Centre) **Analysis of the immediate early *me53* gene from the baculovirus AcMNPV.**

- 3:50 pm Hodgson, J., Krell, P. and B. Arif (University of Guelph and Great Lakes Forestry Centre) **Reprogramming the expression of *Autographa californica nucleopolyhedrovirus* (AcMNPV) chitinase.**
- 4:10 pm Whyard, S., Gibb, N., Court, L. and A. Singh (University of Manitoba and CSIRO Division of Entomology) **RNA Interference technologies in insects: High-throughput gene validation studies and novel pest insect control applications.**
- 4:30pm **End of Session**
- 6:00 pm **Reception, Vineland Estates Winery**
- 7:00 pm **Conference Dinner, Vineland Estates Winery**

**Friday, June 16
Newman Room**

Session Chair: Steve Whyard

- 9:00 am Merkx-Jacques, M., Despland, E. and J. C. Bede (McGill University and Concordia University) **Caterpillars do what I cannot: dietary self-selection in *Spodoptera exigua*.**
- 9:20 am D'Souza, O., Rheault, M., Caveney, S. and C. Donly (Southern Crop Protection and Food Research Centre, University of Western Ontario, and McMaster University) **Diet-induced upregulation of multidrug resistance genes in the cabbage looper moth (*Trichoplusia ni*).**
- 9:40 am Labbe, R.M., Donly, C. and S. Caveney (Southern Crop Protection and Food Research Centre and University of Western Ontario) **Cloning and functional characterization of multidrug resistance associated transporter proteins in the cabbage looper moth.**
- 10:00 am Stanisçuaski, F., Postal, M. and C.R. Carlini (Universidade Federal do Rio Grande do Sul) **Proteolysis of Canatoxin: Characterization of *Callosobruchus maculatus* digestive enzymes involved in the process.**
- 10:20 – 10:50 am **Coffee Break:** Outside Newman Room
- Session Chair: Stephen Tobe
- 10:50 am Chiang R.G. and M.J. O'Donnell (Redeemer College and McMaster University) **Extracellularly recorded potentials associated with motor control of the bursa in the blood-feeding insect, *Rhodnius prolixus*.**

- 11:10 am Morishita, R. and M. Grbic (University of Western Ontario) **Characterization of genes involved in the polyembryonic development of *Copidosoma floridanum* (Ashmead)(Hymenoptera:Encyrtidae).**
- 11:30 am Huebner, E. (University of Manitoba) **Origin, development and differentiation of germ cells in *Rhodnius prolixus*.**
- 11:50 am Lenkic, L. and S. S. Tobe (University of Toronto) **Effects of the juvenile hormone (JH) analogue fenoxycarb on JH biosynthesis and the gonadotrophic cycle in the cockroach *Diploptera punctata*.**
- 12:10 pm da Silva, R. and A.B. Lange (University of Toronto at Mississauga) **The association of neurochemicals with the spermatheca of *L. migratoria*.**
- 12:30 – 1:30 pm **Lunch Break:** Outside Newman Room
- Session Chair: Jacqueline Bede
- 1:30 pm Lagacé, D. (University of Western Ontario) **Ecophysiology of monarch butterfly spring migration.**
- 1:50 pm Anthonypillai, J. (University of Western Ontario) **Accumulation and allocation of lipids in migrant and non-migrant adult females of the true armyworm, *Pseudaletia unipuncta*.**
- 2:10 pm Lange, A.B. and L. Clark (University of Toronto at Mississauga) **Neuropeptides as releasing factors in the corpus cardiacum / corpus allatum of *Locusta*.**
- 2:30 - 2:45 pm **Closing remarks**
- 2:45 - 3:15pm **Coffee Break and Farewells:** Outside Newman Room
- 3:15 pm **End of Conference**