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**11th HFSP Awardees Meeting**

**Montreal, Canada, 5 – 8 June 2011**

**Programme**

**Sunday 5 June**

***Registration and reception at McGill University***

13:00-17:00 Registration at Sofitel

18.00-20.00 Registration at McGill University

18:00-21:00 Welcome reception

**Monday 6 June**

All lectures will be in Moyse Hall.

**Tuesday 7th June and Wednesday 8th June**

All lectures will be in Leacock 132.

**Monday 6 June**

8:45-9:15 **Opening remarks/Welcome address (Chair: Ernst-Ludwig Winnacker)**

*Dr. Alain Beaudet (CIHR)*

 *Dr. Danielle Menard (NSERC)
Prof. Akito Arima, President of HFSPO*

9.15 – 9.30 **Presentation of HFSP Nakasone Medal to Michael Elowitz (Ernst-Ludwig Winnacker, Akito Arima)**

9:30-10:30 **HFSP Nakasone Lecture (Chair: Ernst-Ludwig Winnacker)**

**Cell signaling at the single-cell level**
*Michael Elowitz*

*California Institute of Technology*

*10:30-11:00 Coffee*

 **Oral Session 1 (Chair: Susan Taylor)**

11.00-11.20 **Artificial biomolecular motors**

Balaz, M., Blab, G.A., Boyle, A., Bruning, M, Bromley, E.H.C., Curmi, P.M.G., Davies, R., Forde, N.R., Gemmen,G.J., Graczyk,M., Kovacic, S., Kuwada, N.J., *Linke, H.,* Lopez, B.J., Niman, C., Samii, L., Sessions, R., Thomson, A.R., Woolfson, D.N., Zuckermann, M.J.

11:20-11:40 **Driving the cell cycle with a minimal CDK control network**

*Coudreuse, D*., Nurse, P.

11:40-12:00 **Optogenetic dissection of neural circuit underlying locomotory decision-making in *Caenorhabditis elegans***

*Kocabas, A*., Guo, Z.V., Ramanathan, S.

12:00-12:20 **Replication termination in bacteria; it ain’t over ‘til it’s over**

*Hendrickson, H.L.*, Sherratt, D.J.

12:20-12:40 **Studying the process of DNA replication at the single-molecule level**

*Benkovic, S.J.,* Manosas, M., Spiering, M.M., Lionnet, T., Zhuang, Z., Bensimon, D., Croquette, V.

*12:40-14:00* *Lunch*

14:00-16:00 **Poster session 1**

16.00-17.00 **Special session:** **Writing an HFSP grant***Geoffrey Richards, HFSP*

17.00-18.00 **Lecture on Canadian Science: “**The Canadian S&T enterprise: challenges in an evolving innovation landscape” **Alain Beaudet (President, CIHR)**

*19.00 Dinner Université de Montreal*

**Tuesday 7 June**

9.00-10.00 **Special session:** **Career Planning***Guntram Bauer, HFSP*

**Oral Session 2 (Chair: Rae Silver)**

10.00-10:20 **The subcellular mechanics of tissue morphogenesis**

*Lecuit, T*., Lenne, PF., Munro, E.

10:20-10:40 **Multipotent cell regulation in sea urchins**

*Yajima, M.*, Wessel, G.M.

10:40-11:00 **Modular control of tool manipulation**

*d’Avella, A*., Pai, D.K., Berger, D.J., Edmunds, T., Gentner, R.

*11.00-11:30 Coffee*

11:30-11:50 **Complexomics: Integrated approach for structural biology of eukaryotic multi-protein complexes**

*Imasaki, T*., Cai, G., Tsai, K., Asturias, F.J., Berger, I., Takagi, Y.

11:50-12:10 **Identification of new miRNA biogenesis components by a fast-forward genetic approach**

*Manavella, P.A.,* Hagmann, J., Weigel, D.

12:10-12:30 **Dimeric recombinant dynein motor proteins stepping along microtubules**

Kon, T., Higuchi, H., Vilfan, A., *Burgess, S.A.*

*12:30-14:00* *Lunch*

**Oral Session 3: (Chair: Young-Joon Kim)**

14:00-14:20 **Growth laws, catabolite repression, and metabolic coordination**

You, C., Okano, H., Lenz, P., Wang, Y.P., Yan, D., *Hwa, T.*

14:20-14:40 **Cytokinesis in *pombe*: the pulling force behind ring assembly**

*Laplante, C.,* Pollard, T. D*.*

14:40-15:00 **Noninvasive and fiberoptic-free optogenetics in freely moving mammals: novel opsin-based approaches applied to modulation of prefrontal circuitry**

*Yizhar, O*., Fenno,L., Prigge,M., Sohal, V., Goshen, I., Ramakrishnan, C., Pak,S., Hegemann, P., Deisseroth, K.

15:00-15:20 **Gut microbial regulation of bile acid metabolism**

Islam, S.,Felin, J.,Suorti,T., **Velagapudi**, V.R. Angelin,B.,Orešič, M.,*Bäckhed*, F.

15:20-17:20 **Poster session 2 (with refreshments)**

*19.00 Reception and visit to Montreal Museum of Fine Arts*

**Wednesday 8 June**

**Oral Session 4 (Chair: Judith Armitage)**

9:00-9:20 **Motor-driven intracellular transport powers bacterial gliding motility**

Sun,M., Wartel,M., Cascales, E., Shaevitz, J.W., *Mignot, T.*

9:20-9:40 **Memory retrieval and the passage of time: from reconsolidation and strengthening to extinction**

*Inda, M.C.,* Muravieva, E., Pollonini, G., Alberini, C.M.

9:40-10:00 **Elucidating the composition of gut-associated microbes of *Drosophila* and their role in host immunity**

*Broderick, N.A*., Buchon, N., Lemaitre, B.

10:00-10:20 **Dynamics of protein translation**

*Rosenblum, G.,* Kaur, J., Xi,X., Chen, C., Stavens, B., Zhang, H., Cooperman, B.S., Goldman, Y.E.

10:20-10:40  **Interplay between tissue mechanics of morphogenesis and gene expression during gastrulation**

Sanson, B., Solnica-Krezel, L., *Farge*, E.,

*10:40-11:10 Coffee*

11.10-12.10 **Open discussion with HFSP – alumni meetings and other issues**

*12:10-13:30* *Lunch*

**Oral Session 5 (Chair: Kenneth McNatty)**

13:30-13:50 **Biophysics of unconventional ears with acoustic waveguides**

*Montealegre-Z, F.,* Robert, D.

13:50-14:10 **Gene expression divergence recapitulates the developmental hourglass model**

Kalinka,A.T., Varga,K.M., Gerrard,D.T., Preibisch,S., Corcoran,D.L., Jarrells,J., Ohler, U., Bergman, C.M., *Tomancak*, *P*.

14:10-14:30 **Evolution of transcriptional regulation in early embryos of the *Drosophila* genus**

*Paris, M.*, Kaplan, T., Li, X.Y., Bradley, R.K., Biggin, M.D., Eisen, M.B.

14:30-14:50 **How extracellular environment is encoded by the transcriptional time-series**

Sawai, S., *Golding*, *I.*, Segev, R.

*14.50-15.20 Coffee*

15.20-16.45**Opportunity for breakout sessions**

17.00-18.00**Advancing human genetics through international cooperation and an open-access paradigm**
*Paul Lasko*

*CIHR Institute of Genetics and McGill University***Closing remarks** *Alain Beaudet
Ernst-Ludwig Winnacker*

19:00 *Farewell dinner Le Chalet*