

**Third Annual Awardees Meeting
Cambridge, UK, 6-9 July 2003**

Sunday 6 July

15:00-19:00 Registration
18:30-20:30 Reception and Dinner

Monday 7 July

8:45-9:05 **Opening remarks/Welcoming address**
Julia Goodfellow, Chief Executive, BBSRC
Masao Ito, President, HFSP

Oral session 1 (Chair: Silvano Riva)

9:05-9:25 **The Arp2/3 complex in cell motility**
Machesky, L.M., Gertler, F.B., Mullins, R.D., Pollard, T.D., Aspenström, P., Wehland, J., Oda, A.

9:25-9:45 **New *Drosophila* spectraplakin isoforms containing an internal plectin repeat domain are associated with lateral cell junctions**
Röper, K., Brown, N.H.

9:45-10:05 **The degradation of two mitotic cyclins contributes to the timing of cytokinesis**
Echard, A., O'Farrell, P.H.

10:05-10:25 **Targeting cellular prion expression with phosphorothioate oligonucleotides Reduces PrP^C while eliminating PrP^{Sc}**
Karpuj, M.V., Scott, M.R., Szoka, F.C., Lee, J., Peretz, D., Prusiner, S.B.

10:25-11:05 Coffee

Oral session 2 (Chair: Emil Pai)

11:05-11:25 **Structure-function relationships in ion-channels studied by single molecule fluorescence spectroscopy**
Pralle, A., Isacoff, E.I.

11:25-11:45 **Homology recognition using fugue: protein sequence to structure and function**
Mizuguchi, K., Blundell, T.L., Luisi, B., Shi, J., Stebbings, L.A.

- 11:45-12:05 **Structural and binding studies on the WW and FF domains present in the splicing factor Prp40 and the WW domains of the ubiquitin ligase Rsp5**
Macias, M.J., Wiesner, S., Gasch, A., Civera, C., Ramirez-Espain, X.
- 12:05-12:25 **Structure and function of the U2AF complex**
Carmo-Fonseca, M., Green, M. R., Rio, D. C., Yokoyama, S., Valcárcel, J.
- 12:25-12:45 **Serine oligopeptidases: structure-function relationships and role in human disease**
Fülöp, V., Polgár, L., Andrews, N.W., Juliano, L.
- 12:45-14:30 *Lunch*
- 14:30-17:00 Poster session I
- 17:00-18:00 **Plenary Lecture**
Biological energy
John E. Walker, FRS

Tuesday 8 July

Oral session 3 (Chair: Akio Nomoto)

- 8:45-9:05 **The activated form of yeast RNA polymerase I**
Carles, C., Tschochner, H., Schultz, P., Nogi, Y., Nomura, M.
- 9:05-9:25 **Drosophila ISWI is a global modulator of chromatin accessibility**
Corona, D.F.V., Snarskaya, N., Armstrong, J., Clapier, C.R., Becker, P.P.B., Scott, M.P., Tamkun, J.
- 9:25-9:45 **Reaction Cycles of the Yeast ISWI II Chromatin Remodeling Complex**
Fitzgerald, D.J., DeLuca, C.I., Sigrist, R., Richmond, T.J.
- 9:45-10:05 **Cytosolic proteins at birth: the biogenesis of proteins is physically linked with chaperone-assisted protein folding**
Kramer, G., Rauch, T., Rist, W., Vorderwülbecke, S., Patzelt, H., Schulze-Specking, A., Ban, N., Bukau, B., Deuerling, E.
- 10:05-10:25 **Rescue of mutant p53 by a short peptide *in-vitro* and *in-vivo***

Friedler, A., Veprintsev, D.B., Freund, S.M.V., Selivanova, G., Issaeva, N., Wiman, K.G., Fersht, A.R

10:25-11:05 Coffee

Oral session 4 (Chair: Colin Blakemore)

11:05-11:25 **Network motifs: basic building blocks of complex networks**

Alon, U.

11:25-11:45 **Early development of receptive fields in the barrel cortex *in vivo***

Bureau, I., Svoboda, K.

11:45-12:05 **Localized synaptic potentiation by brain-derived neurotrophic factor at developing neuromuscular synapses**

Zhang, X.H., Poo M.M.

12:05-12:25 **mRNA localization and synaptic maturation in the Drosophila Nervous System**

Gardiol, A., St Johnston, D.

12:25-12:45 **Cell fate determination in the developing mouse central nervous system by cross-interactions among transcriptional regulatory signals**

Taga, T.

12:45-13:05 **Systemic RNA interference: silencing gene expression with food**

May, R.C., Plasterk, R.H.A

13:05-14:30 Lunch

14:30-17:00 Poster session II

17:00-18:00 **Open discussion with HFSP staff**

19:00 **Reception /Dinner in the Dining Hall of Robinson College**
Lord Sainsbury of Turville, Minister for Science and Innovation introduced by
Sir George Radda, Chief Executive, Medical Research Council (MRC)

Wednesday 9 July

Oral session 5 (Chair: Karl Friston)

8:45-9:05 **Monte Carlo simulations of synaptic transmission in detailed three-dimensional reconstructions of cerebellar neuropil**

Häusser, M., Nusser, Z., Roth, A.

9:05-9:25 **Neural correlates of localization and mislocalization**

Krekelberg B., Kubischik M., Bremmer F.

9:25-9:45 **A neural correlate for relative expected value of choices in the parietal cortex**

Dorris, M.C., Glimcher, P.W.

9:45-10:05 ***In vivo* visualization of axonal connectivity and functional activity using diffusion tensor MRI**

Kim, D.-S., Ronen, I., Kim, K.H., Formisano, E., Kim, M., Ugurbil, K., Mori, S., Goebel, R.

10:05-10:25 **The representation and neural substrate of word meanings and syntax**

Vigliocco, G., Cappa, S., Garrett, M., Indefrey, P., Sanz, M. and Tabossi, P.

10:25-11:05 Coffee

Oral session 6 (Chair: Robin Lovell-Badge)

11:05-11:25 **Biochemical and structural studies of mammalian ZP domain proteins in fertilisation, immunity and hearing**

Jovine, L., Qi, H., Williams, Z., Litscher, E., Wassarman, P.M.

11:25-11:45 **Transcriptional control of early flower development**

Lohmann J.U.

11:45-12:05 **Lefty proteins inhibit Nodal convertases (subtilisin-like proprotein convertases) and Nodal secretion**

Le Good, J.A., Constam, D.B.

- 12:05-12:25 **Cellular and molecular events during the specification of anterior pattern in the mouse embryo**
Srinivas, S., Rodriguez, T., Clements, M., Smith, J., Beddington, R.
- 12:25-12:45 **A novel cAMP pathway**
Matsuda, M., Hariharan, I., Bos, J.L., Wittinghofer, A.
- 12:45-14:30 Lunch*
- 14:30-17:00 Poster session III
- 17:00-18:00 **Plenary Lecture**
Synaptic specificity: guideposts, intermediate targets, and the molecular biology of connectivity
Cornelia Bargmann
- 18:00 Farewell reception