

First Annual Awardees Meeting

Turin, 17-20 June 2001

Sunday June 17th

- 16.00 – 19.00 Registration at University Chemistry Department (Dipartimento di Chimica), Corso Massimo d'Azeglio 48, Torino, opposite Torino Esposizioni (old conference centre)
- 18.00 – 20.00 Reception at University Chemistry Department

Monday June 18th

- 8.30 – 8.45 **Welcoming address – Masao Ito, Torsten Wiesel**
- 8.45 – 12.15 ***Genetics and Development* (Chair: Glauco Tocchini-Valentini)**
 8.45 **Evolution and development of butterfly eyespot patterns**
 Brakefield, P.M., Carroll, S.B., French, V.
- 9.15 **Molecular basis and evolution of the inside-out flower of *Lacandonia schismatica*: the only flowering plant with inverted reproductive whorls.**
 Vergara-Silva, F., Ambrose, B.A., Meyerowitz, E., Alvarez-Buylla, R.E.
- 9.45 **Myogenic functions of ladybird homeobox genes in *Drosophila* and in vertebrates**
 Jagla, K., Frasch, M., Goulding, M., Jagla, T., Knirr, S., Gross, M.K., Moran-Rivard, L., Thisse, B., Currie, P.D., Birchmeier, C.
- 10.15 *Coffee*
- 10.45 **Role of maternal vegetal factors in chordate axis formation**
 Lemaire, P., Elinson, R. P., King, M.-L., Nishida, H., Sardet, C.
- 11.15 **Eph receptor and ligand signalling in cell migration and axon guidance.**
 Klein, R., Lemke, G., Boyd, A.W., Ohta, K.
- 11.45 **Longitudinal axon pathfinding in the developing brainstem**
 Varela-Echavarria, A., Fernández-Montiel, H.L.
- 12.15 – 15.00 *Lunch and poster session*
- 15.00 – 18.30 ***Neural Signaling* (Chair: Pierre Magistretti)**
 15.00 **Inhibitory synaptic signaling in interneuron networks**
 Jonas, P., Westbrook, G., Wisden, W., Obata, K.
- 15.30 **Mechanistic and developmental analysis of serotonergic neuromodulation in the leech**
 Blackshaw, S.E., Fernandez de Miguel, F., French, K.A., Huang, F.Z., Iscla, I., Kristan, W.B., Jr., Marin-Burgin, A., Szczupak, L., Trueta, C., Wang, W.Z., Weisblat, D.A.

- 16.00 **Transmission and plasticity at single hippocampal synapses**
Malgaroli, A., Bliss, A., Fine, A., Saggau, P.
- 16.30 *Coffee*
- 17.00 **An integrated approach to olfactory coding in vertebrates**
Firestein S., Korsching, S.I., Mombaerts, P., Mori, K.
- 17.30 **Analysis of axonal varicosity spacing**
Shepherd, G.M.G., Raastad, M., Andersen, P.
- 18.30 **Plenary lecture**
Central problems for biology in the new millennium
Sydney Brenner

Tuesday June 19th

- 8.30 – 10.00 **Organelles and Molecular Recognition (Chair: Arturo Falaschi)**
8.30 **Molecular dissection of nucleocytoplasmic transport**
Corbett, A.H., Aebi, U., Hurt, E.C., Silver, P.A., Stewart, M., Yoneda, Y.
- 9.00 **Molecular recognition of sialylated ligands by the siglecs and resulting biological functions**
Kelm, S., Brossmer, R., Crocker, P.R., Filbin, M., Jones, E.Y., Nitschke, L., van der Merwe, P.A.
- 9.30 **Structural studies of vesicular transport components**
Alexey, R., Roman, F., Axel, S., Roger, G., Kirill, A.
- 9.50 **Initial characterization of a putative synaptic cell adhesion molecule**
Biederer, T., Südhof, T.C.
- 10.10 *Coffee*
- 10.40 – 12.00 **DNA Replication and Transcription (Chair: Arturo Falaschi)**
10.40 **Replication of damaged DNA: Polymerases switching and induction of mutations.**
Wagner, J., Napolitano, R., Janel-Bintz, R., Fujii, S., Gruz, P., Kim, S-R., Yamada, M., Matsui, K., Nohmi, T., Fuchs, R.P.P.
- 11.10 **Structure and function of proteins involved in RNA polymerase II transcriptional regulation.**
Davidson, I., Tora, L., Weil, P.A., Timmers, H.T.M., Meisterernst, M., Kouzarides, T.
- 11.40 **Characterization of higher order chromatin organization**
Bystricky, K., Schalch, T., Richmond, T.J.
- 12.00 – 15.00 *Lunch and poster session*
- 15.00 – 18.00 **Chalkboard sessions**
- 18.30 – 20.00 **Baroque concert at Palazzo Barolo**

Wednesday June 20th

- 8.30 – 12.00 ***Higher Functions (Chair: Piergiorgio Strata)***
- 8.30 **Mirror neurons and the observation/execution matching system: anatomical basis and functional mechanisms.**
 Gallese, V., Rizzolatti, G., Buccino, G., Craighero, L., Fadiga, L., Fogassi, L., Kholer, E., Umiltà, M.A., Luppin, G., Arbib, M., Oztop, E., Gobbi, E., Agus, M., Bettio, F., Hari, R., Avikainen, S., Salenius, S., Nishitani, N., Kojima, S., Nakamura, K., Sato, M., Savaki, H., Gregoriou, G., Raos, V., Woods, R., Iacoboni, M., Mazziotta, J.
- 9.00 **Operation of the hippocampus and connected cortical areas in memory and spatial function**
 Rolls, E. T., Treves, A., Kesner, R. P., Mizumori, S.
- 9.30 **Role of astrocytes in coupling neuronal activity to energy metabolism**
 Pellerin, L., Hamel, E., Bonvento, G.
- 10.00 *Coffee*
- 10.30 **Multisensory interactions subserving orienting**
 Van Opstal, A.J., Munoz, D.P., Meredith, M.A., Behan, M., Paige, G.D.
- 11.00 **Peripheral inputs to primate spinal interneurons during voluntary wrist movements: Task-dependent gating of sensory information by presynaptic inhibition.**
 Seki, K., Perlmuter, S.I., Fetz, E.E.
- 11.20 **Fine tuning an auditory synapse for speed and fidelity**
 Taschenberger, H., von Gersdorff, H.
- 11.40 **Electrocortical responses and behavioral discrimination of rapid changes in tone pairs in six-month-old infants.**
 Leppänen, P. H. T., Choudhury, N., Benasich, A. A.
- 12.00 – 1500 *Lunch and poster session*
- 15.00 – 17.00 ***Energy Metabolism and Channel Selectivity (Chair: Joel Weiner)***
- 15.00 **Structure of a Glycerol Conducting Channel and the Basis for its Selectivity.**
 Nollert, P., Fu, D., Libson, A., Miercke, L., Weitzman, C., Krucinski, J., Stroud, R.M.
- 15.20 **The roles of the novel uncoupling proteins in energy metabolism**
 Ricquier, D., Rial, E., Richard, D., Porter, R.K.
- 15.50 **Towards the molecular understanding of a neurodegenerative disease: Friedreich Ataxia**
 Musco, G., Adinolfi, S., Martin, S., Frenkel, T., Pastore, A., Stier, G., Kolmerer, B., Gibson, T., Cazzalini, O., Foury, F., Puccio, H., Simon, D., Cossée, M., Criqui-Filipe, P., Koenig, M.

- 16.20 **Cell Locomotion and Migration (Chair: Joel Weiner)**
Small molecule approaches to mitosis and cell locomotion
Cramer, L.P., Mitchison, T.J., Mayer, T.U.
- 16.50 **Integrins mediate tangential migration of neural precursors to the olfactory bulb**
Murase, S., Horwitz, A.F.
- 17.10 **Real-time imaging of neuronal migration in the developing zebrafish cerebellum**
Köster, R.W., Fraser, S.E.
- 17.30 *Coffee*
- 18.00 **Plenary lecture**
Structural biology of cell invasion and immune evasion by HIV
Wayne Hendrickson

Evening: Closing Banquet