

Self-Organization of Cytoskeletal Networks

One-Day Workshop (Thursday, October 13, 2011)

Rooms T0.08-T0.09, Clinical Trials Unit Building
Warwick Medical School, Gibbet Hill Campus, University of Warwick

Workshop Programme

Morning Session (09.00 – 12.30)

(45 minutes talks by speakers)

09.00 – 09.45 Rob Cross (Warwick CMCB) *Motorising microtubule dynamics*

09.45 – 10.30 Justin Molloy (NIMR) *How myosin-10 navigates the cytoskeletal jungle*

10.30 – 11.00 *Coffee break*

11.00 – 11.45 Manlio Tassieri (Glasgow) *Microrheology: monitoring the self-organization of the cytoskeletal filaments, both *in vitro* and *in vivo**

11.45 – 12.30 Shahid Khan (LUMS / MBC) *Myosin powered alignment of actin filaments *in vitro**

12.30 – 13.30 *Lunch break*

Afternoon Session (13.30 – 17.00)

13.30 – 15.30 Image Processing & Simulation Demonstrations

Shahid Khan & Nasir Rajpoot (*Simulation of CaMKII dynamics in dendritic spines*)

Sam Jefferyes & Nasir Rajpoot (*Modelling motile cells*)

Ben Fitton, Anne Straube, & Nasir Rajpoot (*Towards automatic kymograph analysis*)

Richard Tyson & Till Bretschneider (*QuimP for cell motility assessment*)

Edward Harry & Andrew McAinsh (*Tracking kinetochores*)

15.00 – 15.30 *Tea Break*

15.30 – 16.45 **Panel Discussion: Modelling living cells: Gaps between *in silico* and *in vivo***

Till Bretschneider, Nigel Burroughs, Rob Cross, Shahid Khan, Andrew McAinsh,
Justin Molloy, Anne Straube, Manlio Tassieri

16.45 – 17.00 Closing Remarks

18.15 **Depart for Dinner (Stratford-upon-Avon)**

Tea, coffee, and lunch will be served.

If you would like to attend this event or join us for dinner (please indicate), please email Nasir Rajpoot (at nasir@dcs.warwick.ac.uk) by **2pm on Wednesday, the 12th of October.**

