

## **STATE-OF-THE-ART LECTURE S1**

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### **The dynamics of the interactome**

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Interactome research has shown that proteins participate in a wide number and variety of interactions. Together, these form networks of great complexity. We have been focusing on what controls the dynamics of protein-protein interaction networks, and have defined three main effects: abundance-based effects, sequence-based effects and conditional effects. The latter involve protein post-translational modifications. This seminar will discuss research we have done in understanding these effects and the implications of this for the control of cellular function.