

## Thursday, 2<sup>nd</sup> July (Day 1)

- 08:00 - 09:00 Registration, putting up posters  
09:00 - 09:30 Opening lecture: Sophie Jackson

### Session I: Biophysics

- 09:30 - 10:00 Lecture: Joanna Trylska  
Functional RNA dynamics: aminoglycoside binding site and thermosensing hairpin
- 10:00 - 10:30 Lecture: Martin Zacharias  
Exploring biomolecular dynamics and interactions using advanced sampling methods
- 10:30 - 10:40 Short talk: Robert Szoszkiewicz  
Stiffness and internal friction of single protein molecules: AFM study
- 10:40 - 11:00 Coffee break
- 11:00 - 11:45 Workshop: Tomasz Prószyński  
How to stay motivated in science?
- 11:45 - 12:30 Workshop: EMBO & EMBL - future opportunities  
TBA
- 12:30 - 13:30 Lunch

### Session II: Cancer

- 13:30 - 14:00 Lecture: Michael Potente  
The link between angiogenesis and endothelium metabolism
- 14:00 - 14:30 Lecture: Anna Sablina  
Ubiquitination governs signalling routes of the RAS-like GTPases
- 14:30 - 14:40 Short talk: Katarzyna Jastrzębska  
Bioengineered spider silk - an intelligent biomaterial for delivery of anti-cancer drugs
- 14:40 - 15:15 Coffee break
- 15:15 - 15:45 Lecture: Eric So  
Seed and soil in cancer stem cell biology
- 15:45 - 16:15 Lecture: Jesús Gil  
Regulation of the secretome of senescent cells
- 16:15 - 18:00 Posters and snacks
- 18:30 - ... Dinner and party

## Friday, 3<sup>rd</sup> July (Day 2)

### Session III: Cytoskeleton

- 09:00 - 09:30 Lecture: Gaia Pigino  
3D electron microscopy to reveal structure and function of the cilium
- 09:30 - 10:00 Lecture: Frank Schnorrer  
Building muscle -- from genes to forces
- 10:00 - 10:30 Lecture: Renata Basto  
Investigating the contribution of centrosomes during development and establishment of disease
- 10:30 - 10:40 Short talk: Anna Adamiok  
miR-449 controls apical actin network formation during multiciliogenesis through small GTPase
- 10:40 - 11:00 Coffee break

### Session IV: Structural Biology

- 11:00 - 11:30 Lecture: Martin Weigt  
Coevolutionary modeling of protein sequences: Inference of 3D structure and protein-protein interactions
- 11:30 - 12:00 Lecture: Alex Schug  
RNA: from folding to co-evolutionary structure prediction
- 12:00 - 12:30 Lecture: Orsolya Barabas  
How do genes jump: insights from crystal structures and more...
- 12:30 - 12:40 Short talk: Jarosław Paszek  
The properties of episode clustering problems for unrooted gene trees
- 12:40 - 13:00 Special talk: Being a Group Leader at EMBL: Opportunities for talented researchers
- 13:00 - 14:00 Lunch
- 14:00 - 14:45 Workshop: Andrzej Dziembowski  
Writing grant applications

### Session V: Systems Biology

- 14:45 - 15:15 Lecture: Alfonso Martinez-Arias  
Structure, regulation and function of transcriptional heterogeneities in embryonic stem cell populations
- 15:15 - 15:45 Lecture: Richard Moriggl  
Aberrant STAT5 gene dosage and hyperactivation status by cytokine or mutated tyrosine kinase signalling drives disease
- 15:45 - 15:55 Short talk: Grzegorz Słodkiewicz  
Structural and functional properties of protein sites evolving under positive selection
- 16:00 - 16:15 Poster awards and closing remarks