

Draft-Agenda 1.0**Wednesday, 26 June 2013**

11:00 Registration

12:00 Lunch

12:50 Welcome Note by BMBF/PtJ

Session I: Presentations by ERASysBio+ groups*Chair: tba*13:00 **GRAPPLE**Iterative modelling of gene regulatory interactions underlying stress, disease and ageing in *C. elegans*13:30 **LINCONET**

Modelling the Gene Regulatory Network underlying Lineage Commitment in Human Mesenchymal Stem Cells: Identification of Drug Targets for the Anabolic Treatment of Degenerative Disorders

14:00 **BioMod UE_PTL**

Biophysical Modelling of the Uterine Electromyogram for understanding and preventing PreTerm Labor

14:30 **ModHeart**Modelling the genetic network controlling heart development using the model organism *Drosophila melanogaster***15:00 Coffee Break****Session II: Presentations by ERASysBio+ groups***Chair: tba*15:30 **ApoNET**

Systems Analysis of TNF and TRAIL Signalling Pathways in Hepatocytes

16:00 **C5Sys**

Circadian and cell cycle clock systems in cancer

16:30 **SYNERGY**

Systems approach to gene regulation biology through nuclear receptors

17:00 **LymphoSys**

Signalling pathways and gene regulatory networks responsible for Th17 cell differentiation

17:30 Short Break

Session III: Presentations by ERASysBio+ groups*Chair: tba*

18:00 **FRIM**
Fruit Integrative Modelling

15:50 **TB-HOST-NET**
Integration of computational modelling with transcription and gene essentiality profiling of both MTB bacillus and infected human dendritic cells and macrophages to understand molecular interaction networks involved in the host-pathogen cross-talk

20:00 Dinner

Wednesday, 27 June 2013**Session IV: Presentations by ERASysBio+ groups***Chair: tba*

09:00 **SHIPREC**
Living with uninvited guests - comparing plant and animal responses to endocytic invasions

09:30 **SynProt**
A Systems Biological Approach to Elucidate Local Protein Synthesis Code in Plasticity and Memory

10:00 **ZEBRAIN**
Understanding decision making from the dynamics of large neural populations in behaving zebrafish

10:30 **iSAM**
Integrative Systems Analysis of the Shoot Apical Meristem

11:00 **Coffee Break**

Session V: Presentations by ERASysBio+ groups*Chair: tba*

11:30 **livSYSiPS**
The systems biology of network stress based on data generated from in vitro differentiated hepatocytes derived from patient-specific human iPS cells

12:00 **EpiGenSys**
System Biological Determination of the Epigenomic Structure-Function Relation

12:30 Concluding Remarks