

HeKKSaGOn Summer School, 17.-26.09.2012, Heidelberg  
2 Groups for Short Presentations and Poster Discussions

- A) Contributions mainly from physics and mathematics
- B) Contributions mainly from chemistry and biology

**SCHEDULE**

(short presentation: 10 minutes and 5 minutes discussion)

**A) Contributions mainly from physics and mathematics**

**1) Abuillan Wasim, Heidelberg**

*The interaction of lipopolysaccharide membranes with antimicrobial peptides revealed by X-ray reflectivity and X-ray fluorescence*

**2) Ariyadasa B.H.A.A. Tharaka, Osaka**

*Evaluation of health risk and fate of PRTR chemicals in Lake Biwa-Yodo River basin (Japan) using distributed multimedia model*

**3) Claus Juliane, Heidelberg**

*Modeling of zinc uptake in plant roots*

**4) Frenkel Natalya, Heidelberg**

*Modulation of electronic structures of GaN with macromolecular dipole moments generated by helical peptides*

**5) Ganza Victoria, Heidelberg**

*Label-free imaging of intercellular structures of malaria-infected human erythrocytes by coherent diffraction X-ray-microscopy*

**6) Gerecht Daniel, Heidelberg**

*Numerical simulations of the competition between T cells for Interleukin-2 in three dimensional cellular microenvironments*

**7) Köthe Alexandra, Heidelberg**

*The role of multistability and hysteresis in biological pattern formation*

**8) Nguyen Duy Huy, Osaka**

*Carbon nanotube based transistor*

**9) Park Jonghin, Osaka**

*Kinematic analysis of finger tapping movement in patients with Parkinson's disease using magnetic sensors*

**10) Stiehl Thomas, Heidelberg**

*Stem cell dynamics in blood regeneration and leukemias: Biomedical insights from mathematical modeling*

**11) Veschgini Mariam, Heidelberg**

*Spatio-temporal changes in mechanical properties of extracellular matrix of Hydra Magnipapillata*

**12) Yamamoto Akihisa, Kyoto**

*Real-time observation of single soft lipid nano-tubes: nano-scale information extracted in a non-invasive manner*

**13) Yamamoto Hiroko, Tohoku University**

*Ground state of a reaction-diffusion equation with spatial heterogeneity*

**# First time frame: Wed, 19 Sept. 13:00-15:45**

Short presentations A1 – A6: 13:00 – 14:30

Poster discussions A1 – A6 14:30 – 15:00

*Coffee break included*

Short presentations A7 – A10 15:00 – 15:45

**# Second time frame: Thursday, 20 Sept. 15:30-18:30**

Short presentations A11 - A13 15:30 – 16:15

Poster discussions A7 – A13 16:15 – 16:45

*Coffee break included*

## **B) Contributions mainly from chemistry and biology**

### **1) Burk Alexandra, Heidelberg**

*Quantitative evaluation of the relative significance of adhesion molecules in bone marrow niche*

### **2) Chen Qing, KIT Karlsruhe**

*Post-translational modification and regulation of Wnt receptor LRP6*

### **3) Fürniß Daniel, KIT Karlsruhe**

*Peptoid libraries – from chemistry to biology*

### **4) Görling Benjamin, KIT Karlsruhe**

*Chemical biology of hyaluronic acid derivatives*

### **5) Han Shuqing, Kyoto**

*Estimation of serum vitamin A level by pupil color and pupillary light reflexes analysis in Japanese black cattle*

### **6) Inoue Tsuyoshi, Kyoto**

*Investigation of the accumulation mechanism of phenolic compounds in citrus species and its biomass utilization*

### **7) Kanamori Mitsuhiro, Kyoto**

*Evaluation of anti-inflammatory effect of sulfatide in vivo*

### **8) Kaschel Johannes, Göttingen**

*Donor-acceptor-substituted cyclopropanes: building blocks for a variety of heterocyclic compounds*

### **9) Körner Alexander, Heidelberg**

*Targeted cell differentiation by immobilization of pluripotent tissue sheets on supported membranes displaying cadherin-11*

### **10) Liu Taibo, Tohoku University**

*Rice plant may have two alternative metabolic paths of back-conversion and terminal catabolism for polyamines*

**11) Moriya Yuki, Tohoku University**

*Transgenic mice in the study of serotonergic mechanisms of addictive drugs and the effects of psychostimulant drugs*

**12) Rieger Harden, Heidelberg**

*Quantitative model of pregnancy-associated malaria infection using biofunctionalized surfaces*

**13) Uesugi Kaoru, Osaka**

*Micro tensile test system for the quality evaluation of cell sheet*

**# Second time frame:**

**Thur, 20 Sept. 15:30-18:30**

Short presentations B9, B1 – B4

16:45 – 18:00

Poster discussions B9, B1 – B4

18:00 – 18:30

*Coffee break included*

**# Third time frame:**

**Fri, 21 Sept., 14:00-16:30**

Short presentations B5 - B8

14:00 – 15:00

Poster discussions B5 – B8

15:00 – 15:20

Short presentations B10 – B13

15:20 - 16:20

Poster discussions B10 – B14

16:25 – 16:30

*Coffee break included*