



FORSCHUNGSZENTRUM
DYNAMISCHE SYSTEME:
BIOSYSTEMTECHNIK

Center Dynamic Systems (CDS): Biosystems Engineering

CDS Status Seminar

2013

20. November 2013

Max – Planck – Institut Magdeburg

9:15 opening remarks

9:30 Jun.-Prof. Timo **Frensing**/ Prof. Dr.-Ing. Achim Kienle: *"Analysis of influenza virus replication using imaging cytometry"*

9:45 PD Dr. Ivonne **Genzel**/ Prof. Dr.-Ing. habil. Dominique Thevenin: *"Shear stress and fluid flow characteristics in high cell density virus production"*

10:00 Dr. rer. nat. Jörg **Schaber**: *"Mechanisms of DNA damage induced cellular senescence"*

10:15 Prof. Dr. rer. nat. Inna **Lavrik**: *"Dynamics of death receptor networks"*

10:30 Prof. Dr. rer. nat. Ingo **Schmitz**: *"Funktionelle Kooperation des NFkB-inhibitors IkbNS und der NFkB-Untereinheit c-Rel in der Differenzierung von regulatorischen T-Zellen"*

10:45 Dipl.-Math. Henning **Lindhorst**/ Jun. Prof. Steffen Waldherr: *"Geometric Integration in Biochemical Reaction Networks"*

11:00 Prof. Dr. rer. nat. Fred **Schaper**: *"InTraSig: Inhibiting Trans-Signalling"*

11:15 Dr. (PhD.) Hamdullah **Yücel**/ Dr. (PhD.) Martin Stoll / Prof. Dr. rer. nat. habil. Peter Benner: *"Convection dominated optimal control problems arising from chemical processes"*

11:30 lunch

13:00 Dr. med. Thati **Madhusudhan**, Dr. Mohammad **Mobashir**/ Prof. Dr. med. Berend Isermann: *"Modelling persistent versus transient protease dependent RhoA signalling in podocytes"*

13:15 Dr. Andrew **Barker**/ Dr. (PhD.) Martin Stoll: *"Parallel computing for optimal control of fluid flows"*

13:30 Prof. Dr. med. Ulrike **Seifert**: *"Plasticity of the ubiquitin-proteasome system during infection"*

13:45 Dipl. Biomath. Kristine **Rinke** / Prof. Dr. rer. nat. habil. Sager: *"Modeling and Optimization of Chemotherapy for Leucemia"*

14:00 coffee break

14:30 Dipl.-Phys. Robert **Flassig**/ Prof. Dr. rer. nat. Naumann /Prof. Dr.-Ing. Kai Sundmacher: *"Modelling of genotoxic stress-induced DNA damage response"*

14:45 Prof. Dr. rer. nat. Wolfgang **Marwan**: *"The dynamics of cellular reprogramming"*

15:00 Dr. (PhD.) Katarzyna **Wrzosek**, Dr. rer. nat. Katja **Bettenbrock**/ Prof. Dr.-Ing. habil. Andreas Seidel-Morgenstern: *"Enzymatic racemisation of mandelic acid"*

15:15 Prof. Dr.-Ing. **Findeisen**: *"Jak-Sys"*

15:30 closing discussion