

Workshop on the Economy of a Cell: Resource Allocation, Trade- Offs and Efficiency in Living Systems

23 - 27 June 2014

POSTERS TO BE PRESENTED

| SURNAME | NAME | Poster/Abstract Title |
|----------------------|-------------|---|
| Bajic | Djordje | Rewiring of genetic networks in response to mutation |
| Bardoscia | Marco | Exaptation capacity and efficiency in metabolic networks |
| Barenholz | Uri | Increased concentration of proteins with growth rate can result from passive resource redistribution |
| Brambilla | Elisa | Gene expression as a function of genome position, implications on growth rate and growth phase dependence of nucleoid organization. |
| Castelli | Lorenzo | How the cell balances resources and tasks: Evaluating the Efficiency of Metabolic Networks |
| Cepeda | Sarah | Activity and specificity - The proof reading question |
| Cubero | Ryan John | Network approaches towards understanding microRNA regulation of cardiomyocyte proliferation |
| Facchetti | Giuseppe | Dose-dependent Drug Synergism in Flux Balance Analysis |
| Flamholz | Avi | Economic Modeling of Metabolic Pathways |
| Ghim | C.M. | Quantitative Systems Biology & Molecular Biophysics |
| Grigore | Alexandra | Comparison of constraint-based methods used to predict growth phenotypes via metabolic networks |
| Henry | Adrien | Kinetic modelling of metabolism in Escherichia coli |
| Hosseini | Sayed-Rzgar | Exhaustive genotype-phenotype mapping in metabolic genotype space |
| Liebermeister | Wolfram | The enzyme cost of metabolic pathway fluxes |
| Liebermeister | Wolfram | Enzyme economy in metabolic networks |
| Lombardo | Pierangelo | Protein translation in cell life |
| Lozada | Lou Serafin | Solitary versus group movement of segmented linear organism |
| Lozada | Lou Serafin | Thermal agitation of honeybee embryonic development |
| Metri | Rahul | Neighborhood similarity based comparison of protein interaction networks of Mycobacterium tuberculosis, Mycobacterium leprae and Escherichia coli |
| Mori | Matteo | Constrained Allocation Flux Balance Analysis |
| Nicole | Robin | Spontaneous segregation of traders toward double auction markets |
| Pandey | Parth | Stirred chemical dynamical systems that grow and divide like cells |

| | | |
|-----------------------|---------|---|
| Pascual-García | Alberto | Bacteria dialog with Santa Rosalia: A critical appraisal of habitat filtering versus ecological interactions. |
| Santhust | | Analysis of the hierarchical structure of the <i>B. subtilis</i> transcriptional regulatory network |
| Sureka | C.S. | Modeling of radiation transport and damage on sub-cellular scales simulated with Geant4- DNA Monte Carlo code |
| Waschina | Silvio | The adaptive potential of metabolic heterogeneity in communities of <i>Escherichia coli</i> |