

Poster Session Project Titles

| <b>Name</b>                | <b>Title</b>  | <b>Week</b> |
|----------------------------|---|-------------|
| Alipour-Assiabi, Elnaz     | Shape transformation in lipid bilayer membrane  | 1st         |
| Becker, Nils               | Sequence dependent DNA elasticity   | 1st         |
| Borowski, Peter            | A polymer model for the dynamics of the Min proteins in E. Coli   | 1st         |
| Burrola Gabilondo, Beatriz | Membrane bending and ASAPI protein  | 1st         |
| Chen, Jing                 | Modeling mycoplasma motility  | 1st         |
| Constantino, Victor        |   | 1st         |
| Czerwinski, Fabian         | Is the activity of topoisomerase IB specific to DNA sequences?  | 1st         |
| Depken, Martin             | Diffusive Backtracking of RNAP II   | 1st         |
| Ellis, Jason               | Modeling the effect of dynamical changes of cell geometry on min oscillations during cell division in E. Coli | 1st         |
| Emanuel, Marc              | Buckling  | 1st         |
| Ganguly, Sujoy             | Fluid dynamical aspects of evolutionary transitions   | 1st         |
| Goyal, Sidhartha           | Quantitative analysis of gene-regulation by small non-coding RNAs   | 1st         |
| Hagman, Johannes-Geert     | Thermodynamics and Dynamics of Proteins in a Simplified Model   | 1st         |
| Hicks, Steve               | Computer Models of Virus Assembly   | 1st         |
| Hofman, Jake               | Statistical Analysis of Cell Motility   | 1st         |
| Iyer Biswas, Srividya      | Making the right "noise": transcriptional pulsing and gene regulation   | 1st         |
| Kanduć, Matej              |   | 1st         |
| Martin Linden              |   | 1st *       |
| Petrović, Katarina         | Transcriptional regulation in signalling networks   | 1st *       |
| Sharpee, Tanya             |   | 1st *       |
| Wang, Yufang               | Studying bacteria quorum sensing at single cell level   | 1st *       |
| Morelli, Marco             | Stochastic fluctuations in gene regulatory networks   | 1st **      |
| Thomas, Creighton          | Patchwork Dynamics for Spin Glasses   | 1st **      |
| Chen, Peiqiu               | An Analytical Model for Molecular Evolution   | 2nd         |
| Lamb, Corinne              | Cellular manipulation using magnetic nanonites  | 2nd         |
| Lapidus, Saul              |   | 2nd         |
| Lee, Pilhwa                | About fluid-solute-structure  | 2nd         |
| Lepzelter, David           | Toggle Switch   | 2nd         |
| Lin, Yi-Chia               | Viscoelastic properties of microtubule networks   | 2nd         |
| Long, Tao                  |   | 2nd         |
| McClellan, Megan           | Dynamics of stress-activated MAPK   | 2nd         |
| Mengel, Benedicte          | The NF- $\kappa$ B network  | 2nd         |
| Mora, Thierry              | Inferring interactions from correlations by message-passing   | 2nd         |
| Pepper, Rachel             |   | 2nd         |
| Piironen, Arto             | Characterization of the fly motion detection pathway  | 2nd         |
| Sathiyarayanan, Rajesh     | Finite size scaling in the fluctuations of steps  | 2nd         |
| Schwab, David              | Nucleosome switching  | 2nd         |

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| Shokri, Leila            | Salt-dependent effect of bacteriophage $\lambda$ 2.5 protein with ss- and ds-DNA using single molecule force spectroscopy | 2nd  |
| Stark, Daniel            |   | 2nd  |
| Stromberg, Sean          | Immunosenescence  | 2nd  |
| Trias, Margaret          | Optical tweezers studies of chromatin remodeling  | 2nd  |
| van de Meent, Jan-Willem | Fluid dynamics of cytoplasm streaming and its implications for intracellular transport                                    | 2nd  |
| Walczak, Aleksandra      | Gene expression state fluctuations in stochastic gene expansion   | 2nd  |
| Walker, Dylan            | Perturbations in PPF nets   | 2nd  |
| Wang, Zhengu             | Emergence of vertical evolution in gene-swapping communities  | 2nd  |
| Blair, Don               |   | 2nd* |