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### Mathematical modeling of metal ion homeostasis and signaling systems

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## Publication List

### *Journal Papers:*

1. Jiangjun Cui and Jaap Kaandorp, Mathematical modeling of calcium homeostasis in yeast cells, *Cell Calcium* 39: 337-348, (2006).
2. Jiangjun Cui, Jaap Kaandorp, Olufisayo O. Ositelu, Veronica Beaudry, Alicia Knight, Yves F. Nanfack and Kyle W. Cunningham, Simulating calcium influx and free calcium concentrations in yeast, *Cell Calcium*, in press, doi:10.1016/j.ceca.2008.07.005, (2008).
3. Jiangjun Cui, Jaap Kaandorp and Catherine M. Lloyd, Simulating *in vitro* transcriptional response of  $Zn^{2+}$  homeostasis system in *Escherichia coli*, *BMC Systems Biology* 2: 89, (2008).
4. Jiangjun Cui, Jaap A. Kaandorp and P.M.A. Sloot, Calcium homeostasis and signaling in yeast cells and cardiac myocytes (abstract accepted by UK e-Science Programme All Hands Meeting 2008, the full paper submitted to *FEMS Yeast Research*).
5. Jiangjun Cui and Jaap Kaandorp, The modulation on the properties of signaling cycle motif by an inhibitor (in preparation).

### *Conference paper:*

6. Jiangjun Cui and Jaap Kaandorp, Simulating complex calcium-calcineurin signaling network, in M.T. Bubak; G.D. van Albada; J.J. Dongarra and P.M.A. Sloot, editors, *Computational Science - ICCS 2008: 8th International Conference, Krakow, Poland, Proceedings, Part III*, in series *Lecture Notes in Computer Science*, vol. 5103, pp. 110-119. Springer, Berlin, Heidelberg, June 2008.