Coordination of Biological and Chemical IT Research Activities

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Project Publications

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The following paper was published after COBRA participation in the *fet[11]* conference and exhibition in Budapest, May 2011 (see D5.1 for more information):

- Biological and chemical information technologies. Amos, M., Dittrich, P., McCaskill, J. & Rasmussen, S. (2011) *Procedia Computer Science* **7**, p.p. 56-60, doi:10.1016/j.procs.2011.12.019.

As COBRA is a coordination action, it is unlikely to generate a large number of project-specific publications. However, it has *facilitated* the publication of a number of papers, which we list here. These papers (which are available online now) will form a special issue of *BioSystems*, dedicated to the COBRA BioChemIT2011 workshop organized at the European Conference for Artificial Life in Paris, August 2011 (see D3.1 for for more information):

Implementing conventional logic unconventionally: Photochromic molecular populations as registers and logic gates. J.C. Chaplin, N.A. Russell and N. Krasnogor (in press).
http://dx.doi.org/10.1016/j.biosystems.2011.12.005

Solving dynamical inverse problems by means of Metabolic P systems. V. Manca and L. Marchetti (in press).
http://dx.doi.org/10.1016/j.biosystems.2011.12.006

Semi-synthetic minimal cells as a tool for biochemical ICT. Pasquale Stano, Giordano Rampioni, Paolo Carrara, Luisa Damiano, Livia Leoni and Pier Luigi Luisi (in press)
http://dx.doi.org/10.1016/j.biosystems.2012.01.002

On architectures of circuits implemented in simulated Belousov–Zhabotinsky droplets. Andrew Adamatzky, Julian Holley, Peter Dittrich, Jerzy Gorecki, Ben De Lacy Costello, Klaus-Peter Zauner and Larry Bull (in press).
http://dx.doi.org/10.1016/j.biosystems.2011.12.007

Towards molecular computing: Co-development of microfluidic devices and chemical reaction media. Philip H. King, Josephine C. Corsi, Ben-Hong Pan, Hywel Morgan, Maurits R.R. de Planque and Klaus-Peter Zauner.
http://dx.doi.org/10.1016/j.biosystems.2012.01.003

Field programmable chemistry: Integrated chemical and electronic processing of informational molecules towards electronic chemical cells. Patrick F. Wagler, Uwe Tangen, Thomas Maeke and John S. McCaskill (in press).
http://dx.doi.org/10.1016/j.biosystems.2012.01.005

Computational simulation of a gene regulatory network implementing an extendable synchronous single-input delay flip-flop. Imad Hoteit, Nawwaf Kharma and Luc Varin (in press).
http://dx.doi.org/10.1016/j.biosystems.2012.01.004

Continuous computation in engineered gene circuits. Angel Goñi-Moreno and Martyn Amos (in press).
http://dx.doi.org/10.1016/j.biosystems.2012.02.001

DNA biosensors that reason. Iñaki Sainz de Murieta and Alfonso Rodríguez-Patón (in press).
http://dx.doi.org/10.1016/j.biosystems.2012.02.005