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On the cover this month:
de Jong *et al.* present the fabrication of thin microfluidic devices with tuneable porosity

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Jan Eijkel and Albert van den Berg examine water in micro- and nanofluidics

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Alexander Demchenko considers the problem of self-calibration in microscale sensor systems.

Hot Article: 3D arrangements of isolated cells
Jordan *et al.* create permanent arrangements using optical tweezers

Hot Article: Hydrodynamic filtration
Yamada and Seki utilize microfluidics for on-chip particle concentration and classification

Hot Article: Cell sorting
Ho et al. present micromachined electrochemical T-switches

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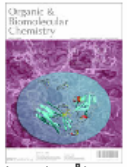
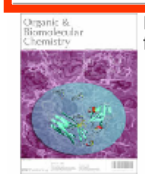


C-Terminal properties are important for ring-fused 2-pyridones that interfere with the chaperone function in uropathogenic *E. coli*

Veronica Åberg, Mattias Hedenström, Jerome S. Pinkner, S. J. Hultgren and Fredrik Almqvist, *Org. Biomol. Chem.*, 2005, **3**(21), 3886 **DOI:** 10.1039/b509376g

Micromachined electrochemical T-switches for cell sorting applications

Chen-Ta Ho, Ruei-Zeng Lin, Hwan-You Chang and Cheng-Hsien Liu, *Lab Chip*, 2005, **5**(11), 1248 **DOI:** 10.1039/b507575k



Directing the secondary structure of polypeptides at will: from helices to amyloids and back again?

Kevin Pagel, Toni Vagt and Beate Koksch, *Org. Biomol. Chem.*, 2005, **3**(21), 3843 **DOI:** 10.1039/b510098d

One of our paper is ranked as a Hot Article by Lab on a Chip journal. This paper proposes a non-invasive control method for cells in the microfluidic flow pathways on a monolithic chip, which will be significant for purifying the sensitive stem cells from other cells without extra stimulation.