# Molecular BioSystems

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**Cover**

See Nancy D. Denslow, Natàlia Garcia-Reyero and David S. Barber, page 172. Fish 'n' Chips: the use of microarrays for aquatic toxicology. Image reproduced with permission of Nancy D. Denslow *et al.*, from *Mol. BioSyst.*, 2007, **3**, 172.

## CHEMICAL BIOLOGY




Drawing together research highlights and news from all RSC publications, *Chemical Biology* provides a 'snapshot' of the latest developments in chemical biology, showcasing newsworthy articles and significant scientific advances.

## HOT OFF THE PRESS

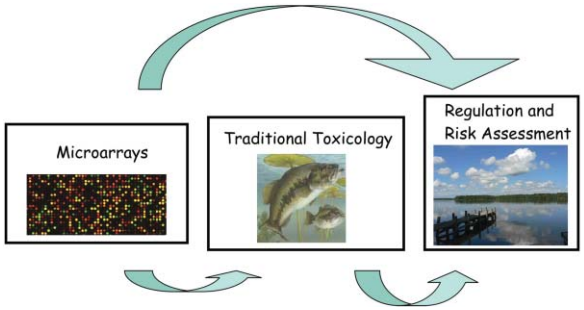



### Hot off the Press

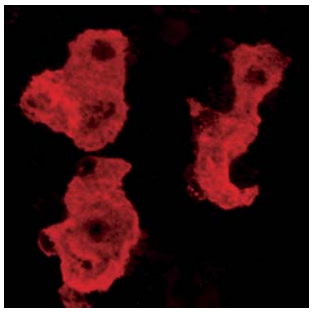
Hot off the Press highlights recently published work for the benefit of our readers. Our contributors this month have focused on the action of RNA polymerase on DNA, new developments in magnetic resonance imaging and the use of amyloid fibrils as nanomaterials. New contributors are always welcome. If you are interested please contact molbiosyst@rsc.org for more information, we'd like to hear from you.

## HIGHLIGHTS

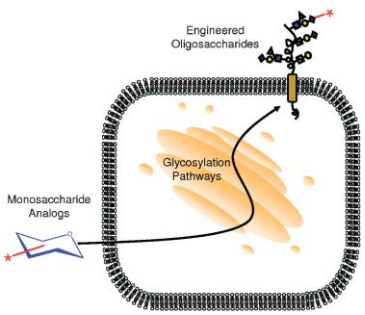






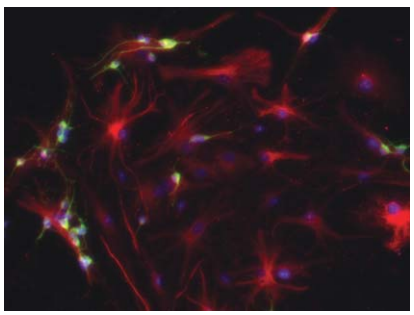








## REVIEW





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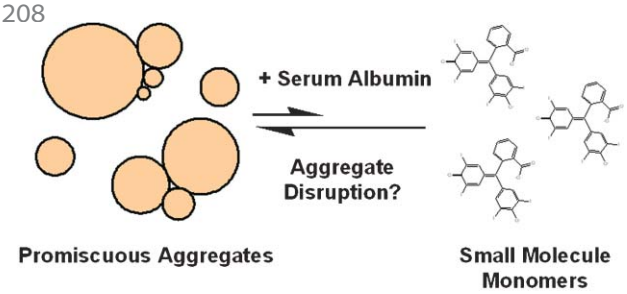


**Stability and equilibria of promiscuous aggregates in high protein milieus**

Kristin E. D. Coan and Brian K. Shoichet*

Promiscuous colloid-like aggregates and aggregate–enzyme complexes are generally unperturbed by high concentrations of protein, including bovine serum albumin. Inhibition can be attenuated by saturation with excess protein, but the aggregates themselves persist.

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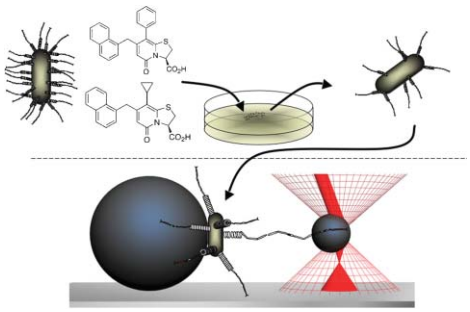

**Pilicides regulate pili expression in *E. coli* without affecting the functional properties of the pilus rod**

Veronica Åberg, Erik Fällman, Ove Axner, Bernt Eric Uhlin, Scott J. Hultgren and Fredrik Almqvist*

Pilicide treated *E. coli* are shown to express fewer adhesive organelles (pili) and the assembled pili fibers display intact physical properties, and thus biological function, as determined by optical tweezers force measurements.

 