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# Biological and Pharmaceutical Bulletin

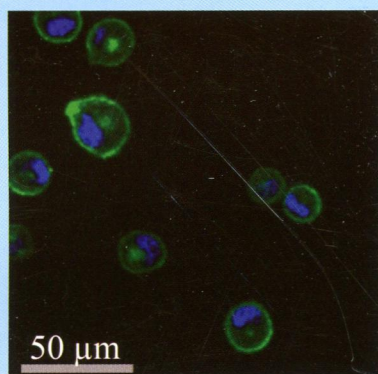
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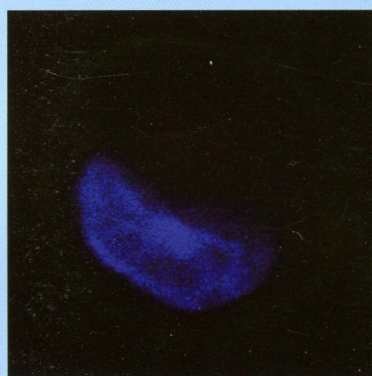
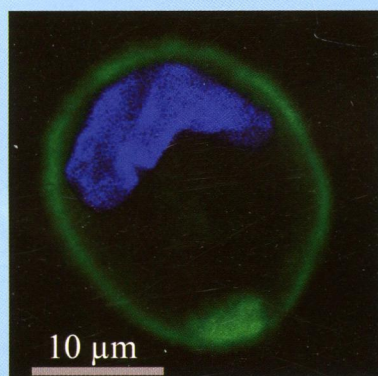
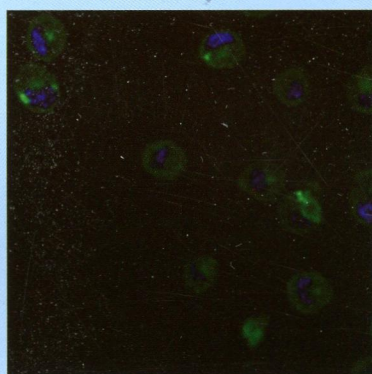
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Biological and Pharmaceutical Bulletin succeeds to Journal of Health Science from 2012.

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**Cover Figure** Cell Surface Modification with PEGylated Lipids

*pp.* 1731–1738

**Highlighted Paper** • Novel Splenic Delivery System for DNA Vaccination  
(Tomoaki Kurosaki *et al.*) *pp.* 1800–1806

**Current Topics** Bioceramic Research on Intelligent Implants and Drug Delivery System



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\* *Highlighted Paper selected by Editor-in-Chief*

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**About the cover:** Human mesenchymal stem cells were incubated in fluorescein-PEG-lipid containing medium and treated with or without trypan blue (TB). In the confocal fluorescence microscopic study, fluorescence on cell surface was observed in TB (-), but was quenched in TB (+). These results suggest that fluorescein molecules were modified on cell surface only by incubation with fluorescein-PEG-lipid. The number of fluorescein-PEG-lipid modified on cell surface could be estimated by the difference of fluorescence intensity between TB (-) and TB (+). The influence of condition during incubation on cell surface modification was evaluated in this paper. See the article by Takafuji *et al.* on page 1731 of this issue.