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#### **JOURNAL OF CONTROLLED RELEASE**

10 AUGUST 2018

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Thermo-responsive polypeptides and micromechanical machines for sustained delivery to the posterior eye

Kinam Park

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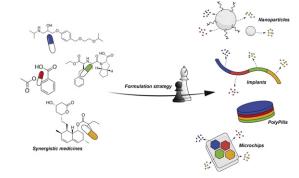
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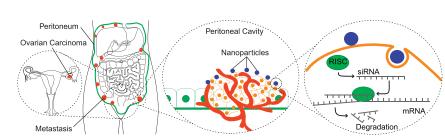
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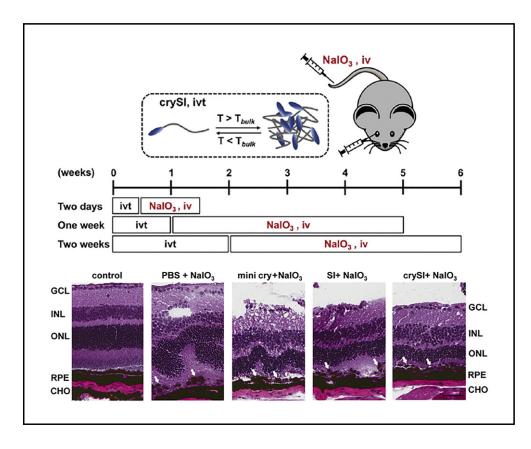
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#### **COVER STORY**

Thermo-responsive polypeptides and micromechanical machines for sustained delivery to the posterior eye

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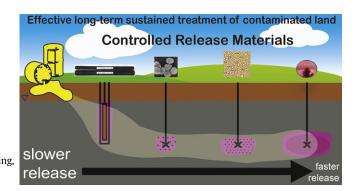
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# Sustainable in situ remediation of recalcitrant organic pollutants in groundwater with controlled release materials: A review

David O'Connor<sup>a</sup>, Deyi Hou<sup>a</sup>, Yong Sik Ok<sup>b</sup>, Yinan Song<sup>a</sup>, Ajit K. Sarmah<sup>c</sup>, Xuanru Li<sup>a</sup>, Filip M.G. Tack<sup>d</sup>

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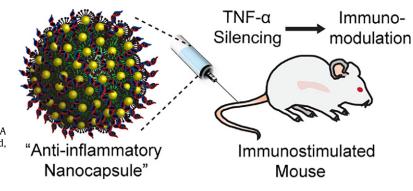


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# Delivery of the improved BMP-2-Advanced plasmid DNA within a gene-activated scaffold accelerates mesenchymal stem cell osteogenesis and critical size defect repair

Rosanne M. Raftery<sup>a,b,c</sup>, Irene Mencía-Castaño<sup>a,b,c</sup>, Simon Sperger<sup>d</sup>, Gang Chen<sup>e</sup>, Brenton Cavanagh<sup>f</sup>, Georg A. Feichtinger<sup>g</sup>, Heinz Redl<sup>d</sup>, Ara Hacobian<sup>d</sup>, Fergal I. O'Brien<sup>a,b,c</sup>

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Gene-activated scaffold

PomvBMP-2 PomvBMP-2 Adv

Implanted into calvarial defect

PomvBMP-2 PomvBMP-2 PomvBMP-2 Adv

Modified plasmids enhance BMP-2 protein production and MSC osteogenesis in vitro

PomvBMP-2-Adv accelerates bone repai critical-sized defect in vivo

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