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# BioMACROMOLECULES

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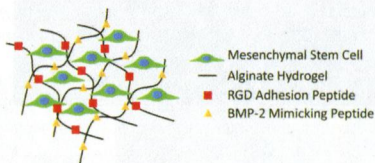
## Articles

445 **S**

[dx.doi.org/10.1021/bm401726u](http://dx.doi.org/10.1021/bm401726u)

### Presentation of BMP-2 Mimicking Peptides in 3D Hydrogels Directs Cell Fate Commitment in Osteoblasts and Mesenchymal Stem Cells

Christopher M. Madl, Manav Mehta, Georg N. Duda, Sarah C. Heilshorn, and David J. Mooney\*

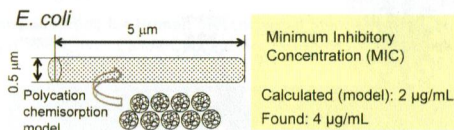


456 **S**

[dx.doi.org/10.1021/bm401794p](http://dx.doi.org/10.1021/bm401794p)

### High Antimicrobial Effectiveness with Low Hemolytic and Cytotoxic Activity for PEG/Quaternary Copolyoxetanes

Allison King, Souvik Chakrabarty, Wei Zhang, Xiaomei Zeng, Dennis E. Ohman, Lynn F. Wood, Sheena Abraham, Raj Rao, and Kenneth J. Wynne\*

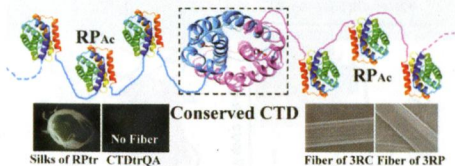


468 **S**

[dx.doi.org/10.1021/bm401709v](http://dx.doi.org/10.1021/bm401709v)

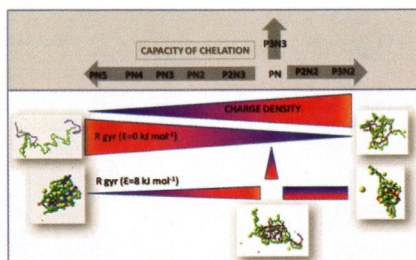
### Structure and Function of C-Terminal Domain of Aciniform Spidroin

Shujing Wang, Weidong Huang, and Daiwen Yang\*



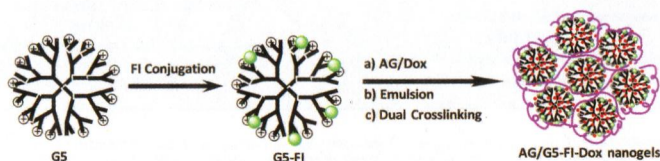
## Interpreting the Rich Behavior of Ternary DNA-PEI-Fe(III) Complexes

Andreia F. Jorge, Rui F. P. Pereira, Sandra C. C. Nunes, Artur J. M. Valente, Rita S. Dias, and Alberto A. C. C. Pais\*



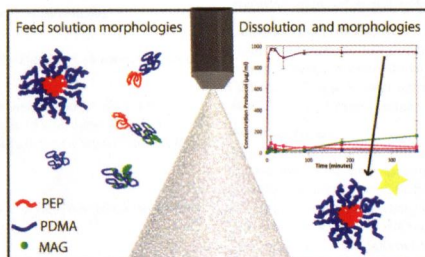
## Dendrimer-Assisted Formation of Fluorescent Nanogels for Drug Delivery and Intracellular Imaging

Mara Gonçalves, Dina Maciel, Débora Capelo, Shili Xiao, Wenjie Sun, Xiangyang Shi, João Rodrigues, Helena Tomás,\* and Yulin Li\*



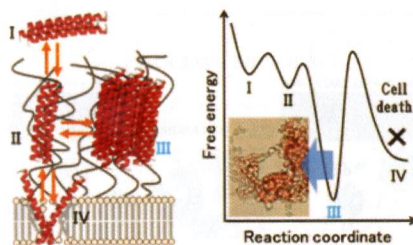
## Solution-State Polymer Assemblies Influence BCS Class II Drug Dissolution and Supersaturation Maintenance

Molly C. Dalsin, Swapnil Tale, and Theresa M. Reineke\*



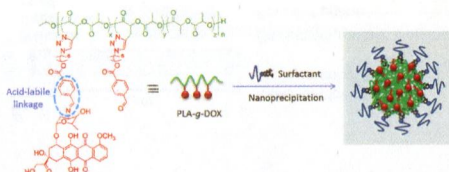
### Designing Cell-Aggregating Peptides without Cytotoxicity

Naoki Yamamoto and Atsuo Tamura\*



### Poly(lactide-*g*-doxorubicin) Nanoparticles with Precisely Controlled Drug Loading for pH-Triggered Drug Delivery

Yun Yu, Chih-Kuang Chen, Wing-Cheung Law, Emily Weinheimer, Sanghamitra Sengupta, Paras N. Prasad, and Chong Cheng\*



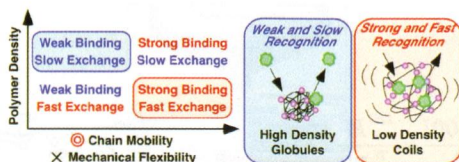
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Milana C. Vasudev, Hilmar Koerner, Kristi M. Singh, Benjamin P. Partlow, David L. Kaplan, Ehud Gazit, Timothy J. Bunning, and Rajesh R. Naik\*



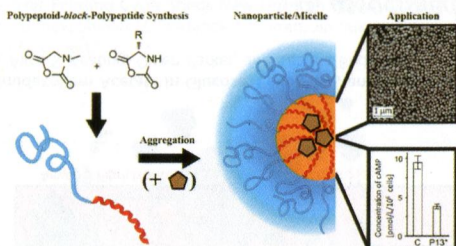
### Effect of Physical Properties of Nanogel Particles on the Kinetic Constants of Multipoint Protein Recognition Process

Masahiko Nakamoto, Yu Hoshino,\* and Yoshiko Miura\*



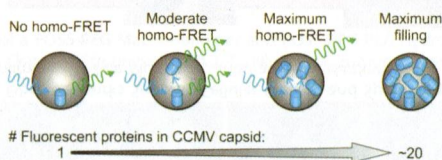
### Polypeptoid-*block*-polypeptide Copolymers: Synthesis, Characterization, and Application of Amphiphilic Block Copoly-pept(oid)s in Drug Formulations and Miniemulsion Techniques

Alexander Birke, David Huesmann, Annette Kelsch, Martin Weilbacher, Jing Xie, Matthias Bros, Tobias Bopp, Christian Becker, Katharina Landfester, and Matthias Barz\*



### Predicting the Loading of Virus-Like Particles with Fluorescent Proteins

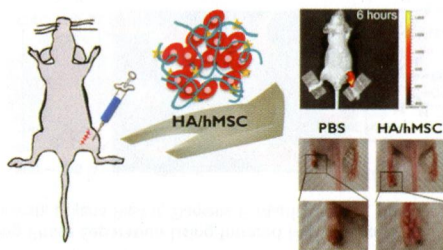
W. Frederik Rupup, Fabian Verbij, Melissa S. T. Koay, Christian Blum, Vinod Subramaniam, and Jeroen J. L. M. Cornelissen\*



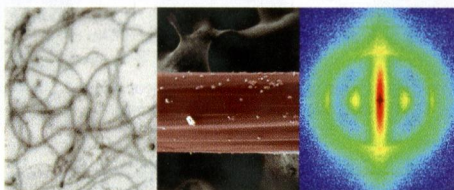


**Clearance Kinetics of Biomaterials Affects Stem Cell Retention and Therapeutic Efficacy**

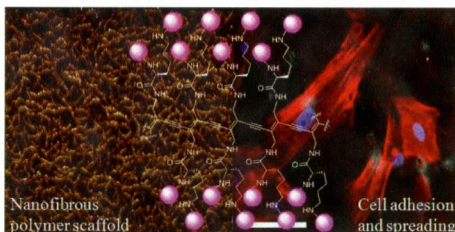
Chia Y. Lai, Pei J. Wu, Steve R. Roffler, Sho T. Lee, Shiao M. Hwang, Shoei S. Wang, Kuan Wang, and Patrick C. Hsieh\*

**Self-Assembly Enhances the Strength of Fibers Made from Vimentin Intermediate Filament Proteins**

Nicole Pinto, Fei-Chi Yang, Atsuko Negishi, Maikel C. Rheinstädter, Todd E. Gillis,\* and Douglas S. Fudge\*

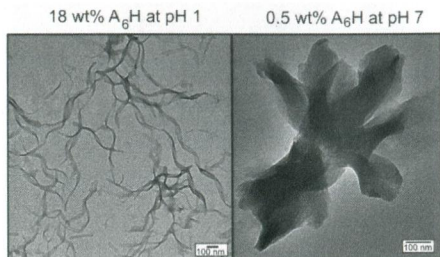
**Lysine-Appended Polydiacetylene Scaffolds for Human Mesenchymal Stem Cells**

V. Haridas,\* Sandhya Sadanandan, Pierre-Yves Collart-Dutilleul, Stan Gronthos, and Nicolas H. Voelcker\*



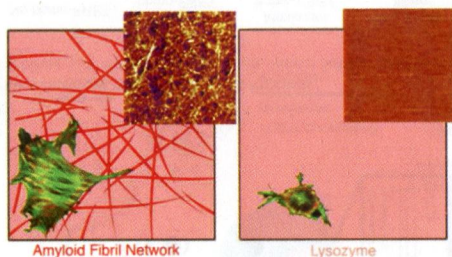
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V. Castelletto,\* I. W. Hamley, M. D. Segarra-Maset, C. Berdugo Gumbau, J. F. Miravet, B. Escuder, J. Seitsonen, and J. Ruokolainen



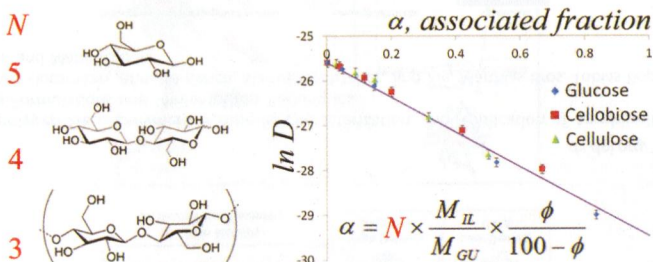
### Engineered Lysozyme Amyloid Fibril Networks Support Cellular Growth and Spreading

Nicholas P. Reynolds,\* Mirren Charnley, Raffaele Mezzenga, and Patrick G. Hartley



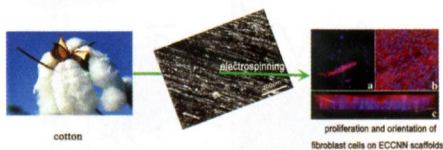
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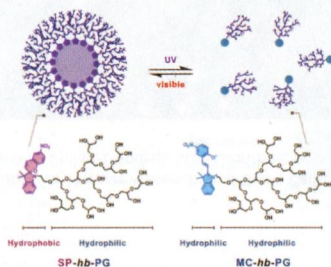
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Xu He, Qiang Xiao, Canhui Lu, Yaru Wang, Xiaofang Zhang, Jiangqi Zhao, Wei Zhang,\* Ximu Zhang,\* and Yulin Deng



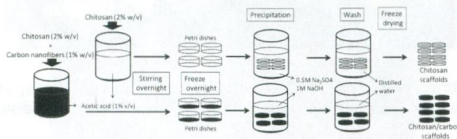
### Light-Responsive Micelles of Spiropyran Initiated Hyperbranched Polyglycerol for Smart Drug Delivery

Suhyun Son, Eeseul Shin, and Byeong-Su Kim\*



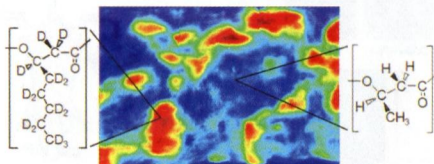
### Electrically Conductive Chitosan/Carbon Scaffolds for Cardiac Tissue Engineering

Ana M. Martins, George Eng, Sofia G. Caridade, João F. Mano, Rui L. Reis, and Gordana Vunjak-Novakovic\*



### Deuterated Polymers for Probing Phase Separation Using Infrared Microspectroscopy

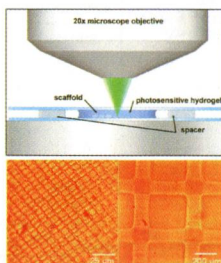
Robert A. Russell,\* Tamim A. Darwish, Ljiljana Puskar, Danielle E. Martin, Peter J. Holden, and L. John R. Foster





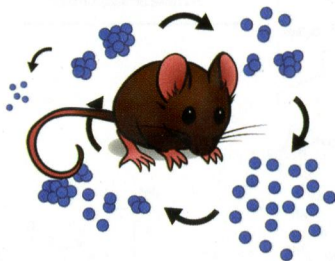
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Olga Kufelt,\* Ayman El-Tamer, Camilla Sehring, Sabrina Schlie-Wolter, and Boris N. Chichkov



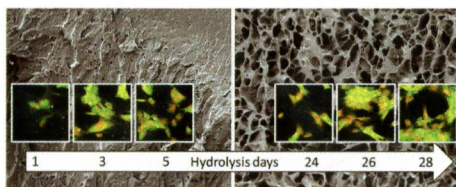
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Mitchell A. Sullivan, Samuel T. N. Aroney, Shihan Li, Frederick J. Warren, Jin Suk Joo, Ka Sin Mak, David I. Stapleton, Kim S. Bell-Anderson, and Robert G. Gilbert\*



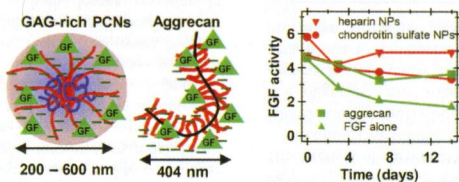
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David K. Wang, Srinivas Varanasi, Ekaterina Strounina, David J. T. Hill, Anne L. Symons, Andrew K. Whittaker, and Firas Rasoul\*



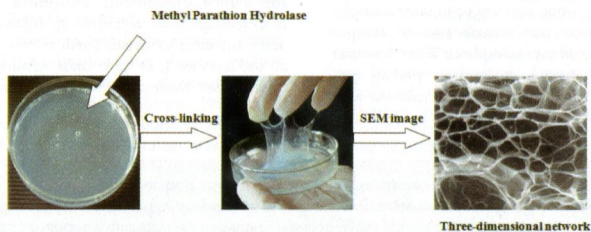
### Aggrecan-Mimetic, Glycosaminoglycan-Containing Nanoparticles for Growth Factor Stabilization and Delivery

Laura W. Place, Maria Sekyi, and Matt J. Kipper\*



### Entrapment of Methyl Parathion Hydrolase in Cross-Linked Poly( $\gamma$ -glutamic acid)/Gelatin Hydrogel

Jianfei Xie, Huiwen Zhang,\* Xu Li, and Yuanliang Shi



Entrapment of Methyl Parathion Hydrolase in Cross-linked Poly( $\gamma$ -glutamic acid)/Gelatin Hydrogel