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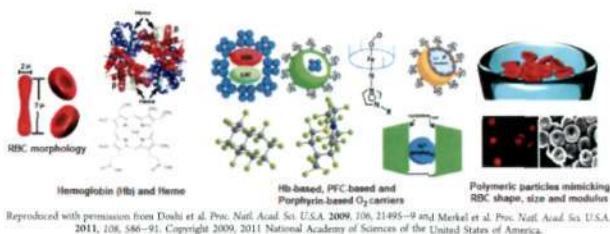
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Reviews

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Synthetic Approaches to RBC Mimicry and Oxygen Carrier Systems

Christa L. Modery-Pawlowski, Lewis L. Tian, Victor Pan, and Anirban Sen Gupta*

dx.doi.org/10.1021/bm400074t


Communications

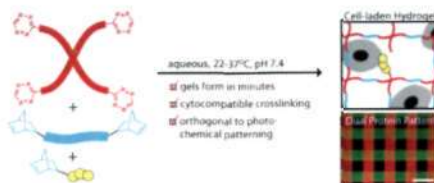
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dx.doi.org/10.1021/bm4000508

Synthetically Tractable Click Hydrogels for Three-Dimensional Cell Culture Formed Using Tetrazine–Norbornene Chemistry

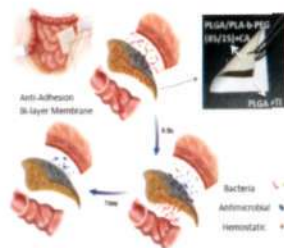
Daniel L. Alge, Malar A. Azagarsamy, Dillon F. Donohue, and Kristi S. Anseth*



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dx.doi.org/10.1021/bm301997e

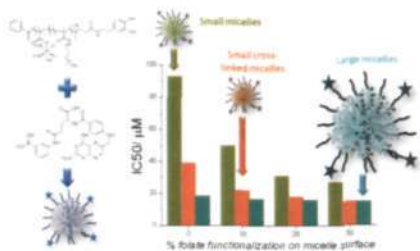
Multiple Targeted Drugs Carrying Biodegradable Membrane Barrier: Anti-Adhesion, Hemostasis, and Anti-Infection
 Heran Wang, Min Li, Jianming Hu, Chenhong Wang, Shanshan Xu,* and Charles C Han*



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dx.doi.org/10.1021/bm400121q

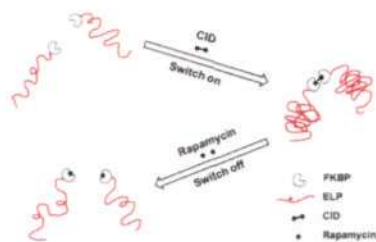
Folate Conjugation to Polymeric Micelles via Boronic Acid Ester to Deliver Platinum Drugs to Ovarian Cancer Cell Lines
 Wei Scarano, Hien T. T. Duong, Hongxu Lu, Paul L. De Souza, and Martina H. Stenzel*



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dx.doi.org/10.1021/bm301558q

Switchable Elastin-Like Polypeptides that Respond to Chemical Inducers of Dimerization
 Jugal Dhandhukia, Isaac Weitzhandler, Wan Wang, and J. Andrew MacKay*

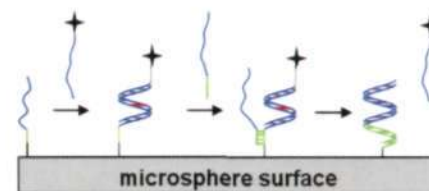


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dx.doi.org/10.1021/bm301746e

Measuring in Situ Primary and Competitive DNA Hybridization Activity on Microspheres
 James O. Hardin and Valeria T. Milam*

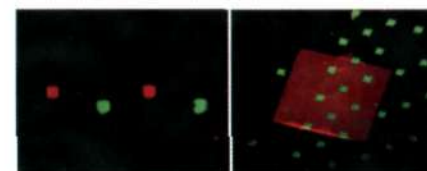


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dx.doi.org/10.1021/bm301783t

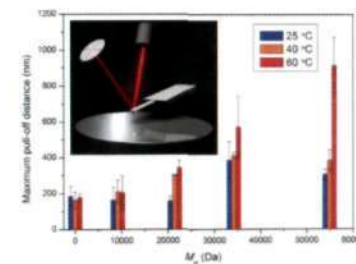
Orthogonal Patterning of Multiple Biomolecules Using an Organic Fluorinated Resist and Imprint Lithography
 Kari M. Midthun, Priscilla G. Taylor, Carol Newby, Margarita Chatzichristidi, Panagiota S. Petrou, Jin-Kyun Lee, Sotiris E. Kakabakos, Barbara A. Baird, and Christopher K. Ober*



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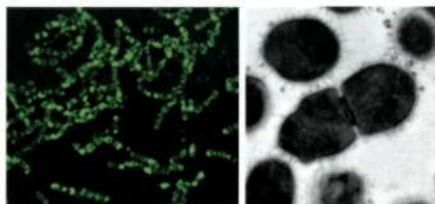
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Nanobiocomposite Adhesion: Role of Graft Length and Temperature in a Hybrid Biomimetic Approach
 Niklas Nordgren,* Linn Carlsson, Hanna Blomberg, Anna Carlmark, Eva Malmström, and Mark W. Rutland



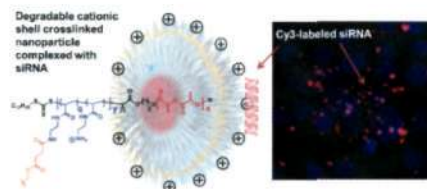
Chitosan-Thioglycolic Acid as a Versatile Antimicrobial Agent

Georg Geisberger, Emina Basic Gyenge, Doris Hinger, Andres Käch, Caroline Maake,* and Greta R. Patzke*



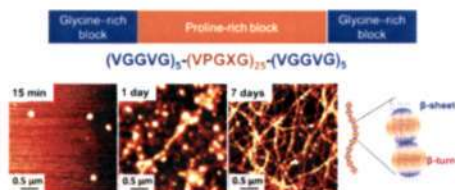
Degradable Cationic Shell Cross-Linked Knedel-like Nanoparticles: Synthesis, Degradation, Nucleic Acid Binding, and *in Vitro* Evaluation

Sandani Samarajeewa, Aida Ibricevic, Sean P. Gunsten, Ritu Shrestha, Mahmoud Elsbahy,* Steven L. Brody,* and Karen L. Wooley*



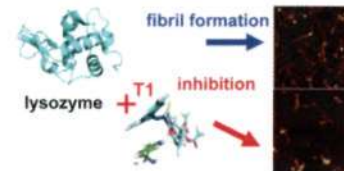
Self-Assembly of Elastin-Mimetic Double Hydrophobic Polypeptides

Duc H. T. Le, Ryo Hanamura, Dieu-Huong Pham, Masaru Kato, David A. Tirrell, Tatsuya Okubo, and Ayae Sugawara-Narutaki*



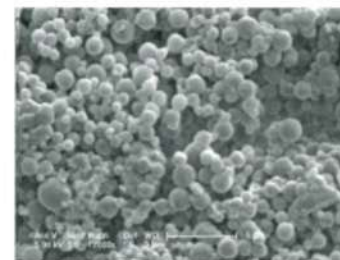
Binding of Glyco-Acridine Derivatives to Lysozyme Leads to Inhibition of Amyloid Fibrillization

Quan Van Vuong, Katarina Siposova, Trang Truc Nguyen, Andrea Antosova, Lucia Balogova, Ladislav Drajna, Jan Imrich, Mai Suan Li, and Zuzana Gazova*



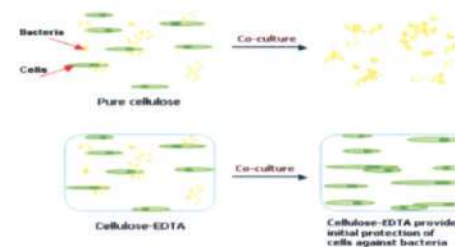
Mechanistic Studies on the Degradation and Protein Release Characteristics of Poly(lactic-co-glycolic-co-hydroxymethyl-glycolic acid) Nanospheres

N. Samadi, C. F. van Nostrum, T. Vermonden, M. Amidi, and W. E. Hennink*

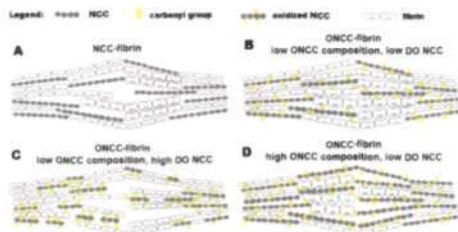


Cellulose-Ethylenediaminetetraacetic Acid Conjugates Protect Mammalian Cells from Bacterial Cells

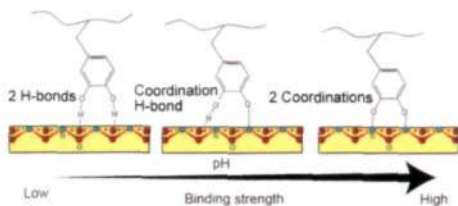
Jie Luo, Wei Lv, Ying Deng,* and Yuyu Sun*



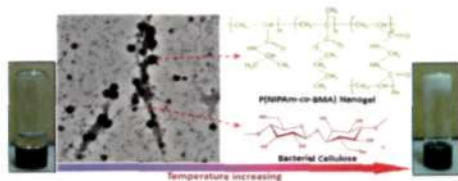
1063 [dx.doi.org/10.1021/bm3019467](https://doi.org/10.1021/bm3019467)
Potential of Nanocrystalline Cellulose–Fibrin Nanocomposites for Artificial Vascular Graft Applications
 Elvie E. Brown, Dehong Hu, Nehal Abu Lail, and Xiao Zhang*



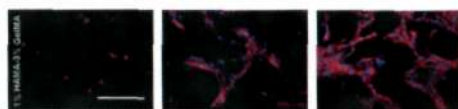
1072 [dx.doi.org/10.1021/bm301908y](https://doi.org/10.1021/bm301908y)
Adhesion of Mussel Foot Protein-3 to TiO₂ Surfaces: the Effect of pH
 Jing Yu, Wei Wei, Matthew S. Menyo, Admir Masic, J. Herbert Waite,* and Jacob N. Israelachvili



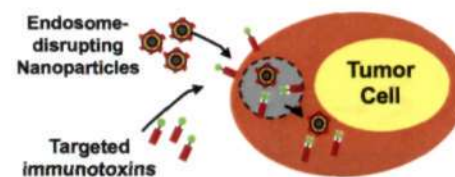
1078 [dx.doi.org/10.1021/bm3019664](https://doi.org/10.1021/bm3019664)
Thermoresponsive Bacterial Cellulose Whisker/Poly(NIPAM-co-BMA) Nanogel Complexes: Synthesis, Characterization, and Biological Evaluation
 Lei Wu, Hui Zhou, Hao-Jan Sun, Yanbing Zhao, Xiangliang Yang, Stephen Z. D. Cheng, and Guang Yang*



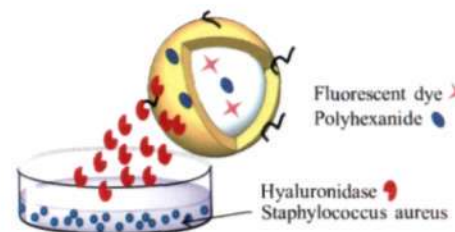
1085 [dx.doi.org/10.1021/bm3019856](https://doi.org/10.1021/bm3019856)
Synthesis and Characterization of Hybrid Hyaluronic Acid-Gelatin Hydrogels
 Gulden Camci-Unal, Davide Cuttica, Nasim Annabi, Danilo Demarchi, and Ali Khademhosseini*



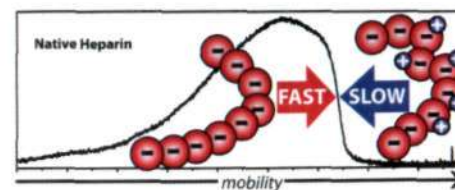
1093 [dx.doi.org/10.1021/bm3019906](https://doi.org/10.1021/bm3019906)
Synergistic Antitumor Activity from Two-Stage Delivery of Targeted Toxins and Endosome-Disrupting Nanoparticles
 Xingfang Su, Nicole Yang, K. Dane Wittrup, and Darrell J. Irvine*



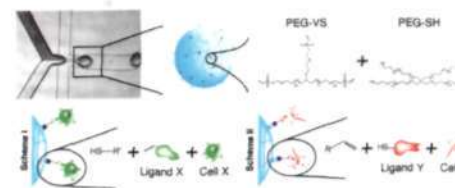
1103 [dx.doi.org/10.1021/bm302003m](https://doi.org/10.1021/bm302003m)
Enzyme Responsive Hyaluronic Acid Nanocapsules Containing Polyhexanide and Their Exposure to Bacteria To Prevent Infection
 Grit Baier, Alex Cavallaro, Krasimir Vasilev, Volker Mailänder, Anna Musyanovych, and Katharina Landfester*



1113 [dx.doi.org/10.1021/bm400006g](https://doi.org/10.1021/bm400006g)
Counterion Condensation on Heparin Oligomers
 Burcu Baykal Minsky, Anand Atmuri, Igor A. Kaltashov, and Paul L. Dubin*

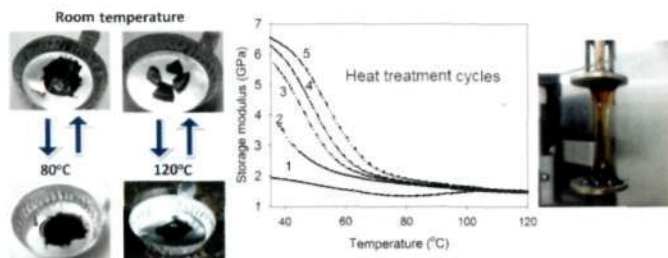


1122 [dx.doi.org/10.1021/bm400016z](https://doi.org/10.1021/bm400016z)
Microfluidic Synthesis of Cell-Type-Specific Artificial Extracellular Matrix Hydrogels
 Simone Allazetta, Tanja C. Hausherr, and Matthias P. Lutolf*



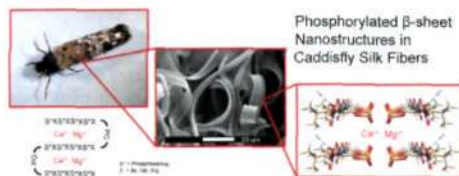
Rheological Properties and Tunable Thermoplasticity of Phenolic Rich Fraction of Pyrolysis Bio-Oil

Amir Sahaf, Marie-Pierre G. Laborie, Karl Englund,* Manuel Garcia-Perez, and Armando G. McDonald



β -Sheet Nanocrystalline Domains Formed from Phosphorylated Serine-Rich Motifs in Caddisfly Larval Silk: A Solid State NMR and XRD Study

J. Bennett Addison,* Nicholas N. Ashton, Warner S. Weber, Russell J. Stewart, Gregory P. Holland, and Jeffery L. Yarger*



Does Microsecond Sugar Ring Flexing Encode 3D-Shape and Bioactivity in the Heparanome?

Benedict M. Sattelle, Javad Shakeri, and Andrew Almond*



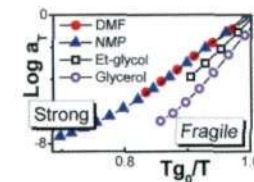
Transparent, Conductive, and Printable Composites Consisting of TEMPO-Oxidized Nanocellulose and Carbon Nanotube

Hirotaaka Koga,* Tsuguyuki Saito, Takuya Kitaoka, Masaya Nogi, Katsuki Suganuma, and Akira Isogai



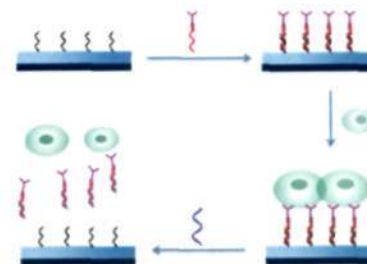
Thermorheological Complexity and Fragility in Plasticized Lignocellulose

Sudip Chowdhury and Charles E. Frazier*



Programmable Display of DNA-Protein Chimeras for Controlling Cell-Hydrogel Interactions via Reversible Intermolecular Hybridization

Zhaoyang Zhang, Shihui Li, Niancao Chen, Cheng Yang, and Yong Wang*

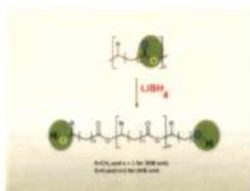


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Selective Reduction of PHA Biopolyesters and Their Synthetic Analogues to Corresponding PHA Oligodiols Proved by Structural Studies

Michał Kwiecień, Grazyna Adamus,* and Marek Kowalczyk

dx.doi.org/10.1021/bm400141s

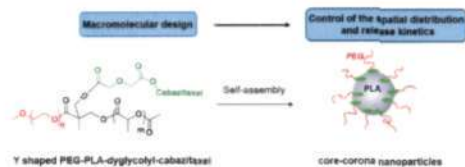


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Y-Shaped mPEG-PLA Cabazitaxel Conjugates: Well-Controlled Synthesis by Organocatalytic Approach and Self-Assembly into Interface Drug-Loaded Core–Corona Nanoparticles

Fethi Bensaid, Olivier Thillaye du Boullay, Abderrahmane Amgoune, Christian Pradel, L. Harivardhan Reddy, Eric Didier, Serge Sablé, Guillaume Louit, Didier Bazile, and Didier Bourissou*

dx.doi.org/10.1021/bm400161g



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Synthesis of Photodegradable Macromers for Conjugation and Release of Bioactive Molecules

Donald R. Griffin, Jessica L. Schlosser, Sandra F. Lam, Thi H. Nguyen, Heather D. Maynard, and Andrea M. Kasko*

dx.doi.org/10.1021/bm400169d



14A

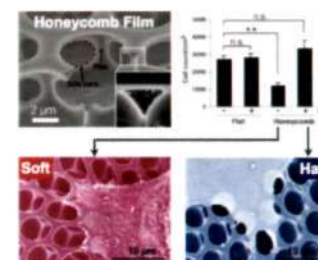
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1208

Mechanical Regulation of Cellular Adhesion onto Honeycomb-Patterned Porous Scaffolds by Altering the Elasticity of Material Surfaces

Takahito Kawano, Yuki Nakamichi, So Fujinami, Ken Nakajima, Hiroshi Yabu,* and Masatsugu Shimomura

dx.doi.org/10.1021/bm400202d

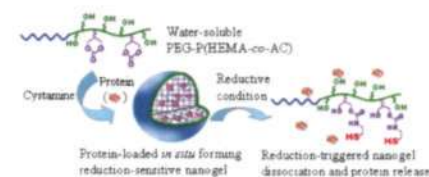


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In Situ Forming Reduction-Sensitive Degradable Nanogels for Facile Loading and Triggered Intracellular Release of Proteins

Wei Chen, Meng Zheng, Fenghua Meng, Ru Cheng, Chao Deng, Jan Feijen, and Zhiyuan Zhong*

dx.doi.org/10.1021/bm400206m

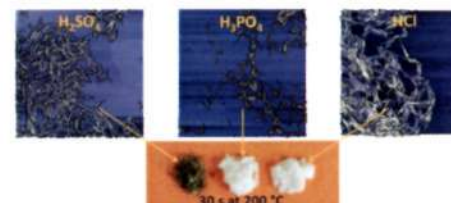


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Isolation of Thermally Stable Cellulose Nanocrystals by Phosphoric Acid Hydrolysis

Sandra Camarero Espinosa, Tobias Kuhnt, E. Johan Foster,* and Christoph Weder*

dx.doi.org/10.1021/bm400219u

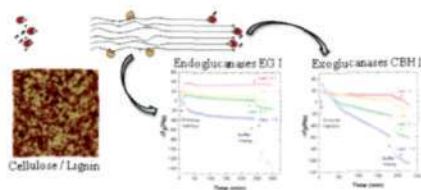


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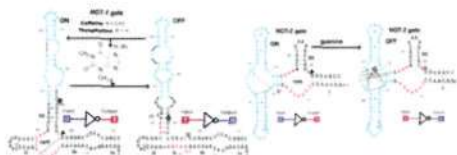
Preferential Adsorption and Activity of Monocomponent Cellulases on Lignocellulose Thin Films with Varying Lignin Content

Raquel Martín-Sampedro,* Jenni L. Rahikainen, Leena-Sisko Johansson, Kaisa Marjamaa, Janne Laine, Kristiina Kruus, and Orlando J. Rojas*



Computational Design and Biosensor Applications of Small Molecule-Sensing Allosteric Ribozymes

Robert Penchovsky*



Additions and Corrections

Correction to "Multilayered Hierarchical Capsules Providing Cell Adhesion Sites"

Clara R. Correia, Rui L. Reis, and João F. Mano*