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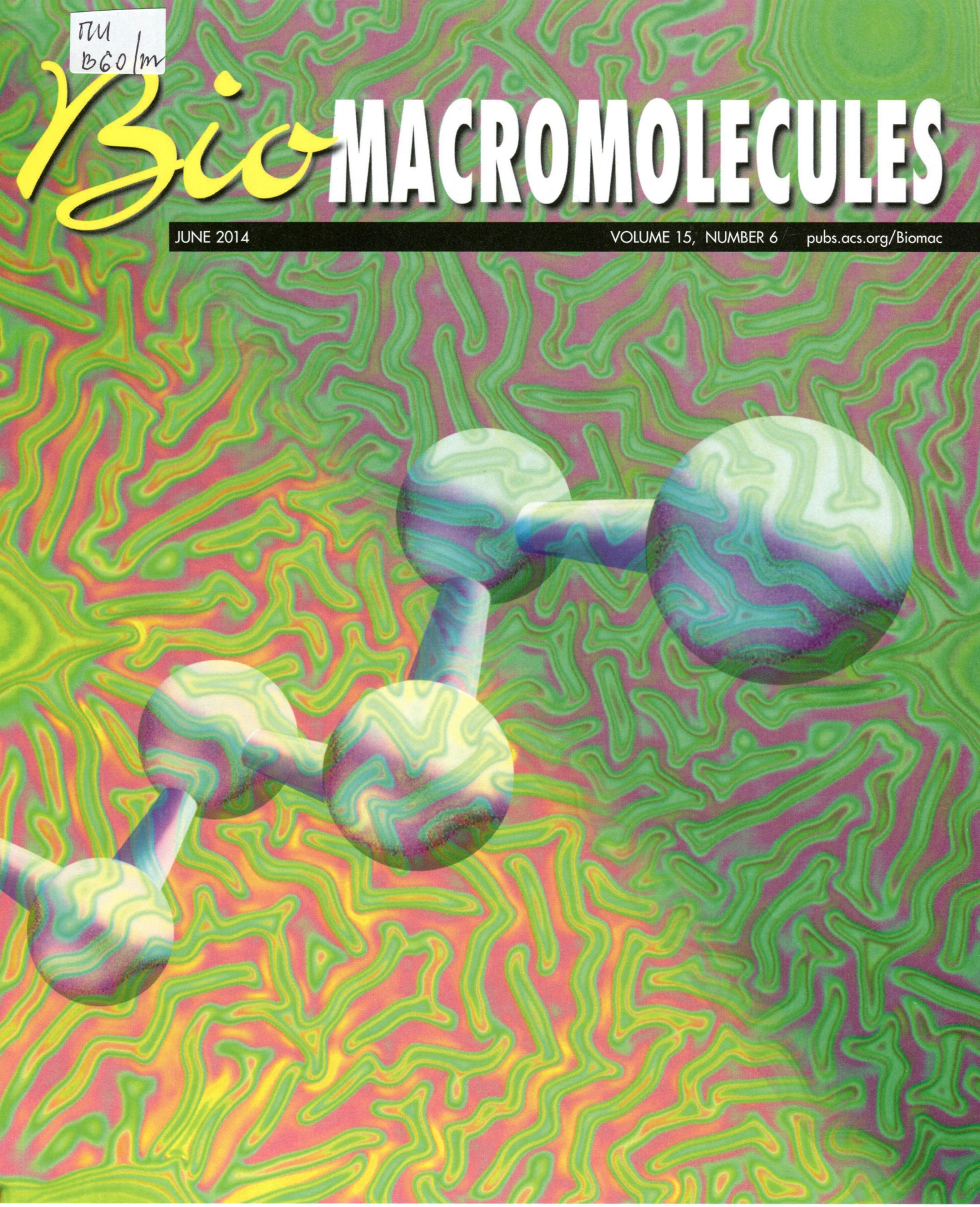

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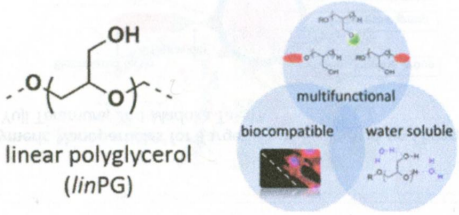
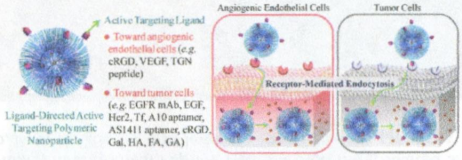
Reviews



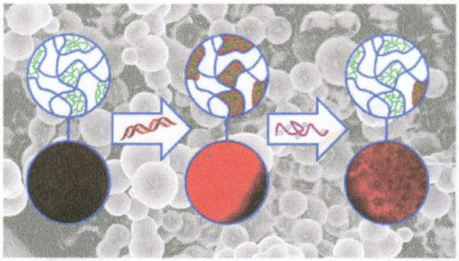


Articles

1970 dx.doi.org/10.1021/bm500236y

Matrix Supported Poly(2-oxazoline)-Based Hydrogels for DNA Catch and Release

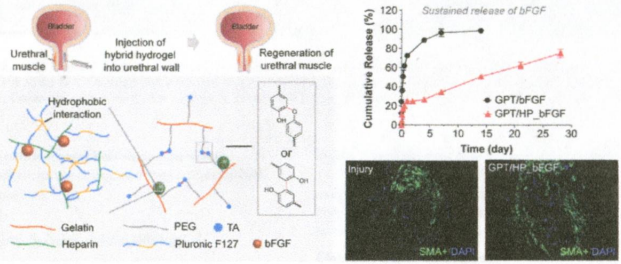
Matthias Hartlieb, David Pretzel, Christoph Englert, Martin Hentschel, Kristian Kempe, Michael Gottschaldt, and Ulrich S. Schubert*



1979 dx.doi.org/10.1021/bm401787u

Macro/Nano-Gel Composite as an Injectable and Bioactive Bulking Material for the Treatment of Urinary Incontinence

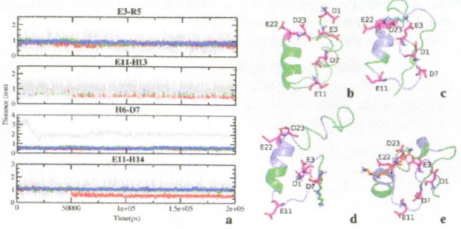
Kyung Min Park, Joo Young Son, Jong Hoon Choi, In Gul Kim, Yunki Lee, Ji Youl Lee, and Ki Dong Park*



1985 dx.doi.org/10.1021/bm401874j

Endogenous Polyamines Reduce the Toxicity of Soluble Aβ Peptide Aggregates Associated with Alzheimer's Disease

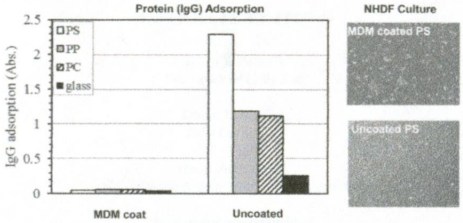
Jinghui Luo, Inayathulla Mohammed, Sebastian K. T. S. Wärmländer, Yoshitaka Hiruma, Astrid Gräslund, and Jan Pieter Abrahams*



1992 dx.doi.org/10.1021/bm401914c

Highly Protein-Resistant Coatings and Suspension Cell Culture Thereon from Amphiphilic Block Copolymers Prepared by RAFT Polymerization

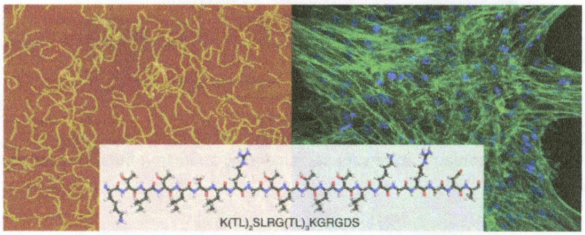
Kazutoshi Haraguchi,* Kazuomi Kubota, Tetsuo Takada, and Saori Mahara



2004 S dx.doi.org/10.1021/bm500075r

Sequence Effects of Self-Assembling MultiDomain Peptide Hydrogels on Encapsulated SHED Cells

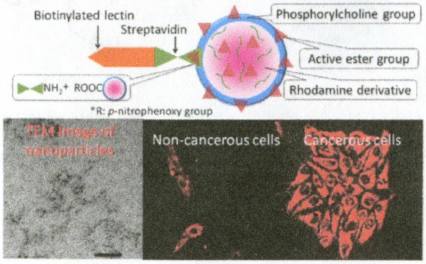
Marci K. Kang, John S. Colombo, Rena N. D'Souza, and Jeffrey D. Hartgerink*



2012 S dx.doi.org/10.1021/bm500159r

Lectin-Tagged Fluorescent Polymeric Nanoparticles for Targeting of Sialic Acid on Living Cells

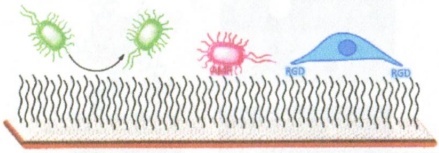
Jaebum Cho, Keiichiro Kushiro, Yuji Teramura, and Madoka Takai*



2019 S dx.doi.org/10.1021/bm500168s

Antiadhesive Polymer Brush Coating Functionalized with Antimicrobial and RGD Peptides to Reduce Biofilm Formation and Enhance Tissue Integration

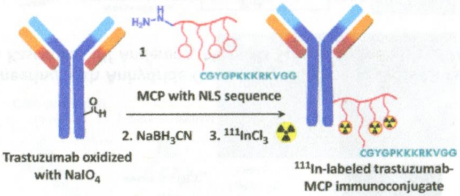
Agnieszka K. Muszanska, Edward T. J. Rochford, Agnieszka Gruszka, Andreas A. Bastian, Henk J. Busscher, Willem Norde, Henny C. van der Mei, and Andreas Herrmann*



2027 S dx.doi.org/10.1021/bm500174p

Synthesis of Polyglutamide-Based Metal-Chelating Polymers and Their Site-Specific Conjugation to Trastuzumab for Auger Electron Radioimmunotherapy

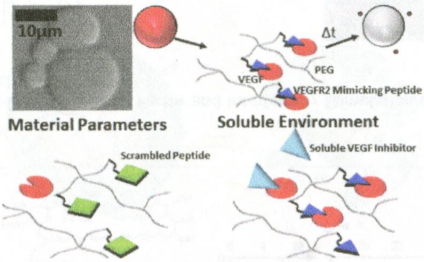
Yijie Lu, Ghislaine Ngo Ndjock Mbong, Peng Liu, Conrad Chan, Zhongli Cai, Dirk Weinrich, Amanda J. Boyle, Raymond M. Reilly,* and Mitchell A. Winnik*



2038 S dx.doi.org/10.1021/bm500177c

Serum-Dependence of Affinity-Mediated VEGF Release from Biomimetic Microspheres

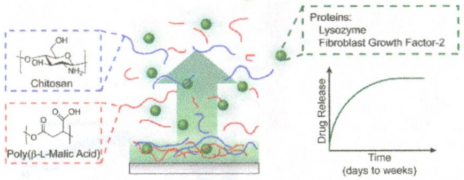
David G. Belair, Andrew S. Khalil, Michael J. Miller, and William L. Murphy*



2049 S dx.doi.org/10.1021/bm5001839

Multilayer Films Assembled from Naturally-Derived Materials for Controlled Protein Release

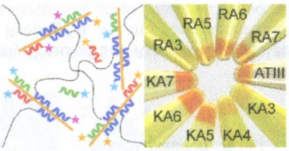
Bryan B. Hsu, Samantha R Hagerman, Kelsey Jamieson, Jovana Veselinovic, Nicholas O'Neill, Eggehard Holler, Julia Y. Ljubimova, and Paula T. Hammond*



2058 S dx.doi.org/10.1021/bm500186a

A Repertoire of Peptide Tags for Controlled Drug Release from Injectable Noncovalent Hydrogel

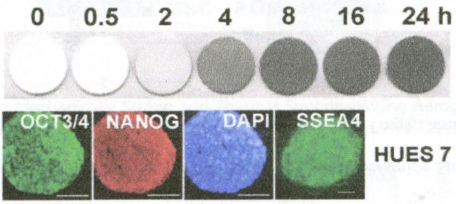
Robert Wieduwild, Weilin Lin, Annett Boden, Karsten Kretschmer, and Yixin Zhang*



2067 S dx.doi.org/10.1021/bm5001907

Polysulfone Membranes Coated with Polymerized 3,4-Dihydroxy-L-phenylalanine are a Versatile and Cost-Effective Synthetic Substrate for Defined Long-Term Cultures of Human Pluripotent Stem Cells

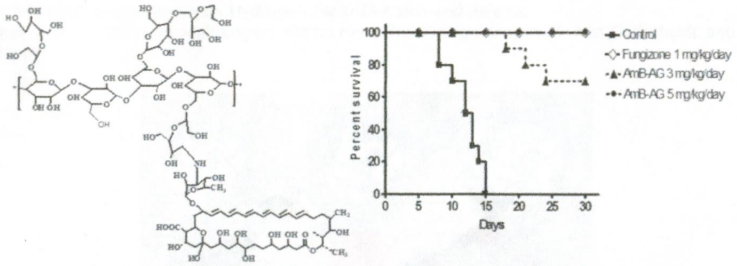
Karthikeyan Kandasamy, Karthikeyan Narayanan,* Ming Ni, Chan Du, Andrew C. A. Wan, and Daniele Zink*



2079 dx.doi.org/10.1021/bm5002125

Activity, Reduced Toxicity, and Scale-Up Synthesis of Amphotericin B-Conjugated Polysaccharide

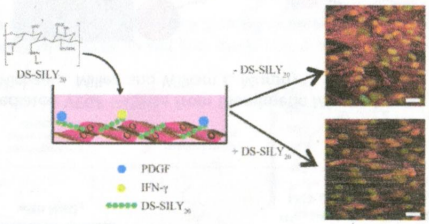
Diana E. Ickowicz, Shimon Farber, Edward Sionov, Sarah Kagan, Amnon Hoffman, Itzhack Polacheck, and Abraham J. Domb*



2090 (S) dx.doi.org/10.1021/bm500224f

Decorin Mimic Regulates Platelet-Derived Growth Factor and Interferon-γ Stimulation of Vascular Smooth Muscle Cells

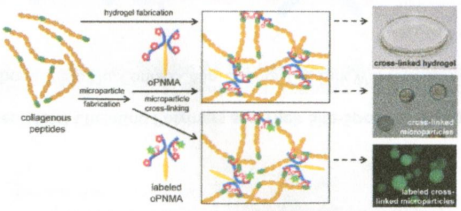
Rebecca A. Scott and Alyssa Panitch*



2104 (S) dx.doi.org/10.1021/bm500241y

Gelatin-Based Biomaterial Engineering with Anhydride-Containing Oligomeric Cross-Linkers

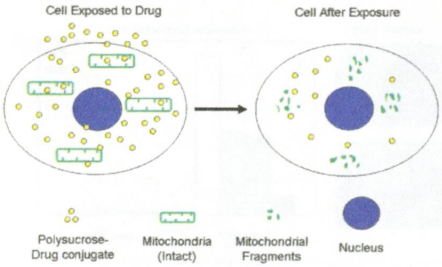
Tina Loth, Rudi Hötzel, Christian Kascholke, Ulf Anderegg, Michaela Schulz-Siegmund, and Michael C. Hacker*



2119 Ⓢ dx.doi.org/10.1021/bm500243m

Mitochondrial Routing of Glucose and Sucrose Polymers after Pinocytotic Uptake: Avenues for Drug Delivery

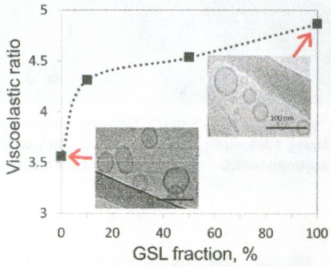
Rafi Rashid, Sebastian Beyer, Anna Blocki, Catherine Le Visage, Dieter Trau, Thorsten Wohland, and Michael Raghunath*



2128 dx.doi.org/10.1021/bm500245z

Interactions of Glycosphingolipids and Lipopolysaccharides with Silica and Polyamide Surfaces: Adsorption and Viscoelastic Properties

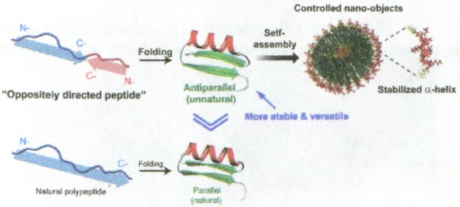
Jenia Gutman, Yair Kaufman, Kazuyoshi Kawahara, Sharon L. Walker, Viatcheslav Freger, and Moshe Herzberg*



2138 Ⓢ dx.doi.org/10.1021/bm500313f

Multiplexing Natural Orientation: Oppositely Directed Self-Assembling Peptides

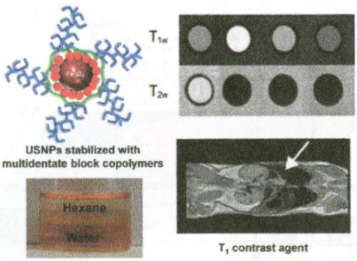
Woo-jin Jeong, Sanghun Han, Hyeseo Park, Kyeong Sik Jin, and Yong-beom Lim*



2146 S dx.doi.org/10.1021/bm500311k

Multidentate Block-Copolymer-Stabilized Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability for Magnetic Resonance Imaging

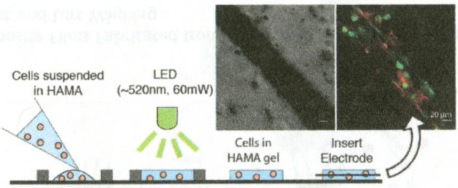
Nicky Chan, Myriam Laprise-Pelletier, Pascale Chevallier, Andrea Bianchi, Marc-André Fortin,* and Jung Kwon Oh*



2157 S dx.doi.org/10.1021/bm500318d

Hyaluronic Acid-Based 3D Culture Model for In Vitro Testing of Electrode Biocompatibility

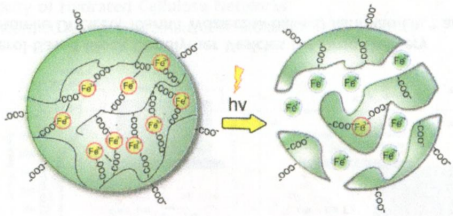
Andrea F. Jeffery, Matthew A. Churchward, Vivian K. Mushahwar, Kathryn G. Todd, and Anastasia L. Elias*



2166 S dx.doi.org/10.1021/bm500327m

Formation and Characterization of Light-Responsive TEMPO-Oxidized Konjac Glucomannan Microspheres

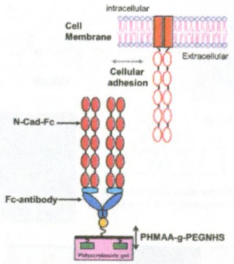
Xiaodong Chen, Shanshan Wang, Meiling Lu, Yuying Chen, Luhai Zhao, Wei Li, Qipeng Yuan, Willem Norde, and Yuan Li*



2172 S dx.doi.org/10.1021/bm500335w

Recapitulating Cell–Cell Adhesion Using N-Cadherin Biologically Tethered to Substrates

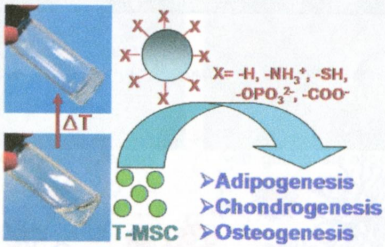
Johana C. M. Vega L., Min Kyung Lee, Jae Hyun Jeong, Cartney E. Smith, Kwan Young Lee, Hee Jung Chung, Deborah E. Leckband,* and Hyunjoon Kong*



2180 dx.doi.org/10.1021/bm500342r

Differentiation of Tonsil-Tissue-Derived Mesenchymal Stem Cells Controlled by Surface-Functionalized Microspheres in PEG-Polypeptide Thermogels

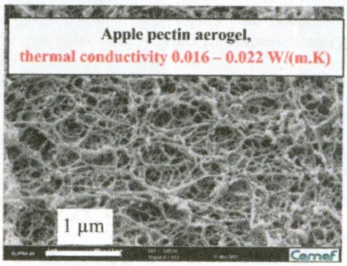
Eun Jeong Kye, Seung-Jin Kim, Min Hee Park, Hyo Jung Moon, Kyung Ha Ryu, and Byeongmoon Jeong*



2188 S dx.doi.org/10.1021/bm500345u

Aeropectin: Fully Biomass-Based Mechanically Strong and Thermal Superinsulating Aerogel

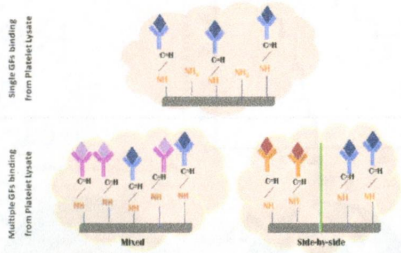
Cyrielle Rudaz, Rémi Courson, Laurent Bonnet, Sylvie Calas-Etienne, Hébert Sallée, and Tatiana Budtova*



2196 S dx.doi.org/10.1021/bm500346s

Biofunctional Nanofibrous Substrate Comprising Immobilized Antibodies and Selective Binding of Autologous Growth Factors

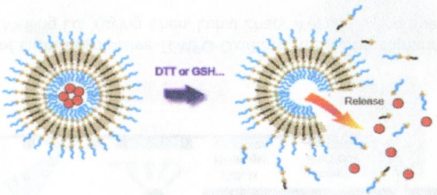
Catarina Oliveira, Ana R. Costa-Pinto, Rui L. Reis, Albino Martins, and Nuno M. Neves*



2206 S dx.doi.org/10.1021/bm5003569

Reduction-Responsive Cholesterol-Based Block Copolymer Vesicles for Drug Delivery

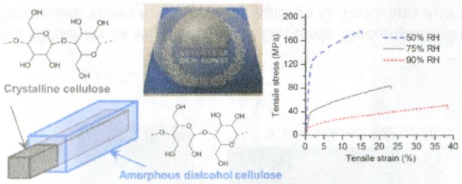
Lin Jia, Di Cui, Jérôme Bignon, Aurelie Di Cicco, Joanna Wdzieczak-Bakala, Jianmiao Liu,* and Min-Hui Li*



2218 S dx.doi.org/10.1021/bm500360c

Ductile All-Cellulose Nanocomposite Films Fabricated from Core–Shell Structured Cellulose Nanofibrils

Per A. Larsson,* Lars A. Berglund, and Lars Wågberg



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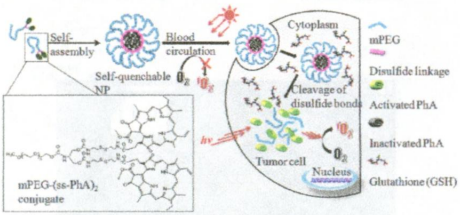
2224 dx.doi.org/10.1021/bm5003619

Biarmed Poly(ethylene glycol)-(pheophorbide a)$_2$ Conjugate as a Bioactivatable Delivery Carrier for Photodynamic Therapy

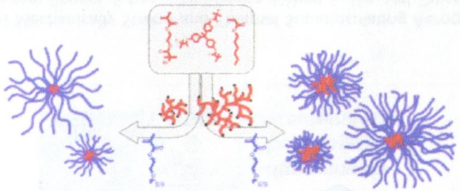
Wool Lim Kim, Hana Cho, Li Li, Han Chang Kang,* and Kang Moo Huh*



2235 S dx.doi.org/10.1021/bm5003637

Toward Unimolecular Micelles with Tunable Dimensions Using Hyperbranched Dendritic-Linear Polymers

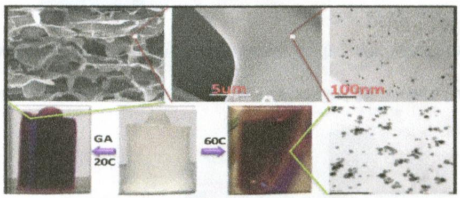
Christian Porsch, Yuning Zhang, Cosimo Ducani, Francisco Vilaplana, Lars Nordstierna, Andreas M. Nyström, and Eva Malmström*



2246 S dx.doi.org/10.1021/bm5003834

Cryogelation of Chitosan Using Noble-Metal Ions: In Situ Formation of Nanoparticles

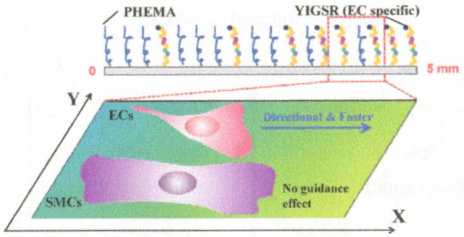
Dmitriy Berillo,* Bo Mattiasson, and Harald Kirsebom



2256 S dx.doi.org/10.1021/bm500385n

Complementary Density Gradient of Poly(hydroxyethyl methacrylate) and YIGSR Selectively Guides Migration of Endotheliocytes

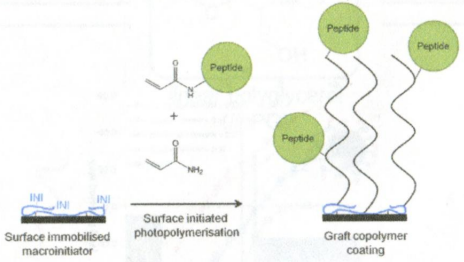
Tanchen Ren, Shan Yu, Zhengwei Mao,* Sergio Enrique Moya, Lulu Han, and Changyou Gao*



2265 S dx.doi.org/10.1021/bm500386y

Polymerizable Peptide Copolymer Coatings for the Control of Biointerfacial Interactions

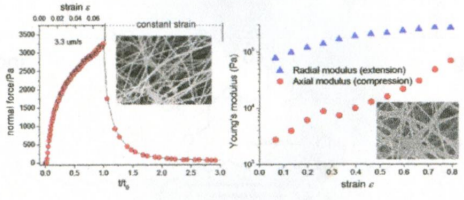
Peter Koegler, Paul Pasic, James Gardiner, Veronica Glattauer, Peter Kingshott, and Helmut Thissen*



2274 S dx.doi.org/10.1021/bm500405h

Micromechanics and Poroelasticity of Hydrated Cellulose Networks

P. Lopez-Sanchez,* Mauricio Rincon, D. Wang, S. Brulhart, J. R. Stokes, and M. J. Gidley

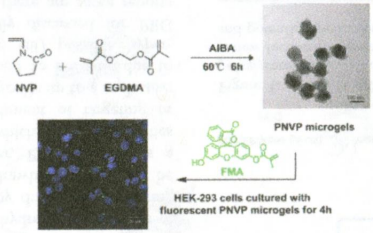


2285 S

dx.doi.org/10.1021/bm5004493

Poly(*N*-vinylpyrrolidinone) Microgels: Preparation, Biocompatibility, and Potential Application as Drug Carriers

Qing Yang, Kai Wang, Jingjing Nie, Binyang Du,* and Guping Tang*

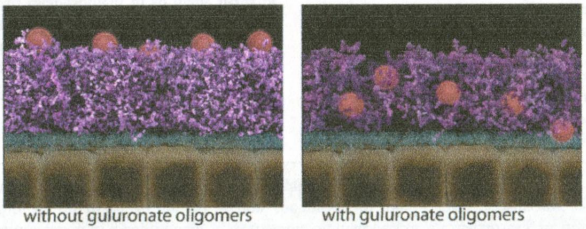


2294

dx.doi.org/10.1021/bm500464b

Alterations in Mucus Barrier Function and Matrix Structure Induced by Guluronate Oligomers

Catherine Taylor Nordgård,* Unni Nonstad, Magnus Ø. Olderøy, Terje Espevik, and Kurt I. Draget



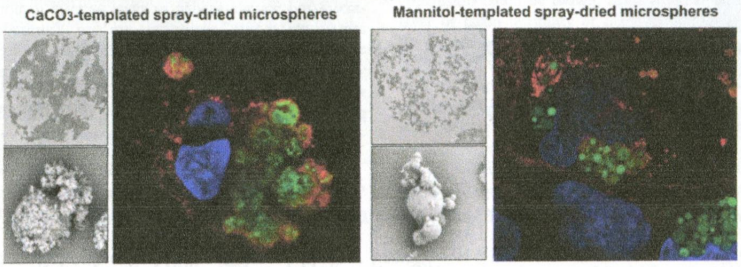
without guluronate oligomers with guluronate oligomers

2301 S

dx.doi.org/10.1021/bm5005367

Spray-Dried Polyelectrolyte Microparticles in Oral Antigen Delivery: Stability, Biocompatibility, and Cellular Uptake

Rebecca De Smet,* Stephanie Verschuere, Liesbeth Allais, Georges Leclercq, Marijke Dierendonck, Bruno G. De Geest, Isabel Van Driessche, Tine Demoor, and Claude A. Cuvelier



2310 dx.doi.org/10.1021/bm500669s

Microbial Synthesis of Functional Homo-, Random, and Block Polyhydroxyalkanoates by *β*-Oxidation Deleted *Pseudomonas entomophila*

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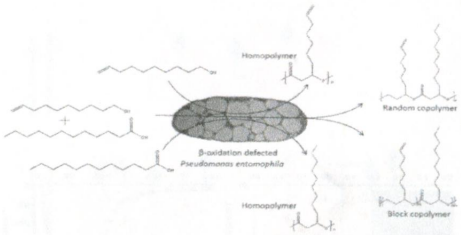

Notes

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Photoassisted One-Step Aerosol Fabrication of Zwitterionic Chitosan Nanoparticles

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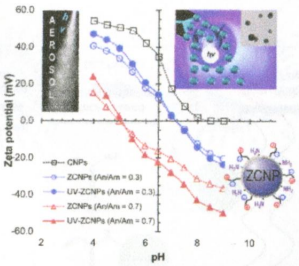

Supporting Information available via online article