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OCTOBER 2013

VOLUME 14, NUMBER 10

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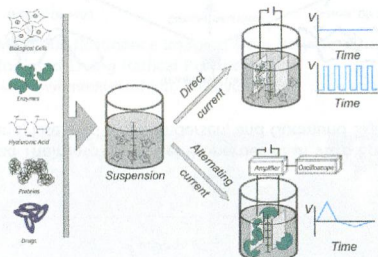
Reviews

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Electrophoretic Deposition of Biological Macromolecules, Drugs, And Cells

Sigrid Seuss and Aldo R. Boccacini*



Communications

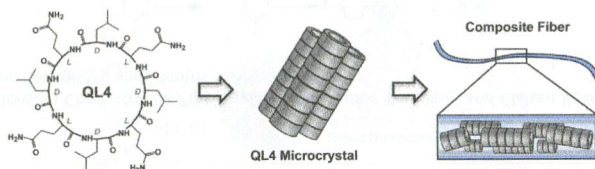
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Mechanical Reinforcement of Polymeric Fibers through Peptide Nanotube Incorporation

Daniel J. Rubin, Hadi T. Nia, Thierry Desire, Peter Q. Nguyen, Michael Gevelber, Christine Ortiz, and Neel S. Joshi*

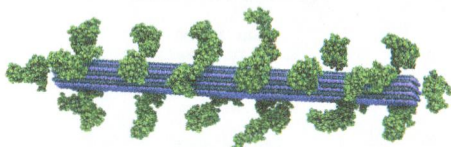


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Solvent-Driven Preferential Association of Lignin with Regions of Crystalline Cellulose in Molecular Dynamics Simulation
Benjamin Lindner,* Loukas Petridis,* Roland Schulz,* and Jeremy C. Smith*

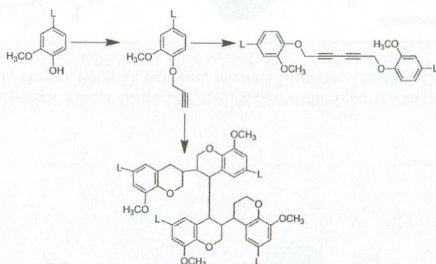


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Kraft Lignin Chain Extension Chemistry via Propargylation, Oxidative Coupling, and Claisen Rearrangement
Sanghamitra Sen, Hasan Sadeghifar, and Dimitris S. Argyropoulos*

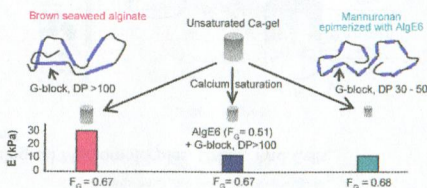


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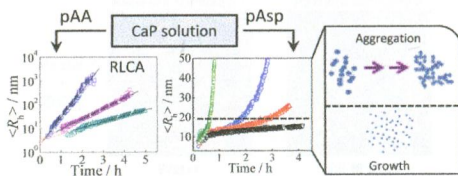
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Analysis of G-Block Distributions and Their Impact on Gel Properties of in Vitro Epimerized Mannuronan
Olav Aarstad,* Berit Løkensgard Strand, Lise Mari Klepp-Andersen, and Gudmund Skjåk-Bræk



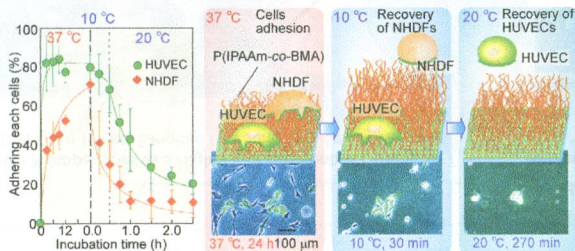
Different Kinetic Pathways of Early Stage Calcium-Phosphate Cluster Aggregation Induced by Carboxylate-Containing Polymers

Jing Ye, Dongbo Wang, Diana N. Zeiger, William C. Miles, and Sheng Lin-Gibson*



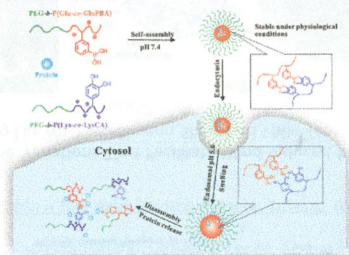
Hydrophobized Thermoresponsive Copolymer Brushes for Cell Separation by Multistep Temperature Change

Kenichi Nagase, Yuri Hatakeyama, Tatsuya Shimizu, Katsuhisa Matsuura, Masayuki Yamato, Naoya Takeda, and Teruo Okano*



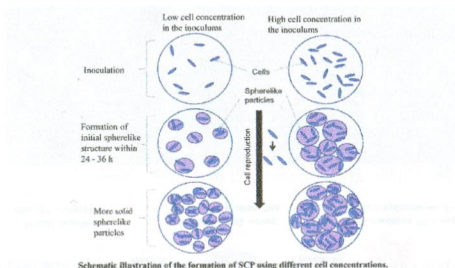
pH/Sugar Dual Responsive Core-Cross-Linked PIC Micelles for Enhanced Intracellular Protein Delivery

Jie Ren, Yanxin Zhang, Ju Zhang, Hongjun Gao, Gan Liu, Rujiang Ma, Yingli An, Deling Kong, and Linqi Shi*



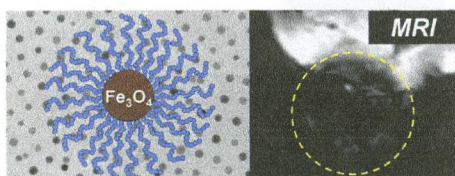
Factors Impacting the Formation of Sphere-Like Bacterial Cellulose Particles and Their Biocompatibility for Human Osteoblast Growth

Yang Hu, Jeffrey M. Catchmark,* and Erwin A. Vogler



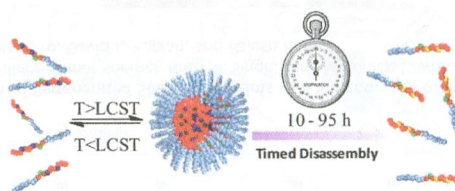
Fabrication of Contrast Agents for Magnetic Resonance Imaging from Polymer-Brush-Afforded Iron Oxide Magnetic Nanoparticles Prepared by Surface-Initiated Living Radical Polymerization

Kohji Ohno,* Chizuru Mori, Tatsuki Akashi, Shinichi Yoshida, Yoshiyuki Tago, Yoshinobu Tsujii, and Yasuhiko Tabata



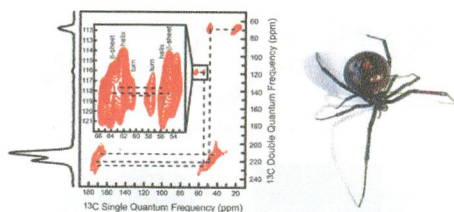
Fine Tuning the Disassembly Time of Thermoresponsive Polymer Nanoparticles.

Nguyen T. D. Tran, Zhongfan Jia, Nghia P. Truong, Matthew A. Cooper, and Michael J. Monteiro*



Characterizing the Secondary Protein Structure of Black Widow Dragline Silk Using Solid-State NMR and X-ray Diffraction

Janelle E. Jenkins, Sujatha Sampath, Emily Butler, Jihyun Kim, Robert W. Henning, Gregory P. Holland,* and Jeffery L. Yarger*

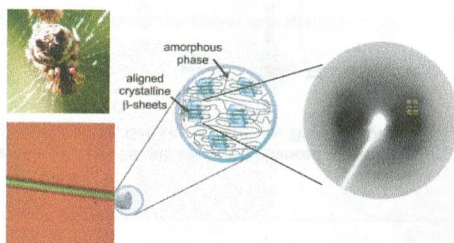


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Uncovering Spider Silk Nanocrystalline Variations That Facilitate Wind-Induced Mechanical Property Changes

Sean J. Blamires, Chao-Chia Wu, Chung-Lin Wu, Hwo-Shuenn Sheu, and I-Min Tso*

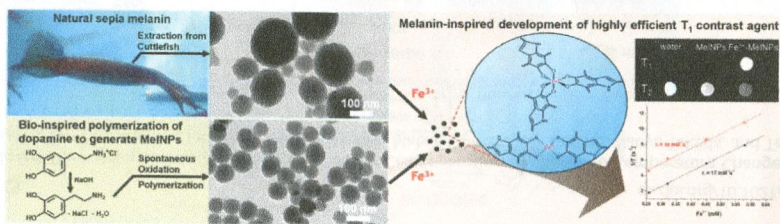


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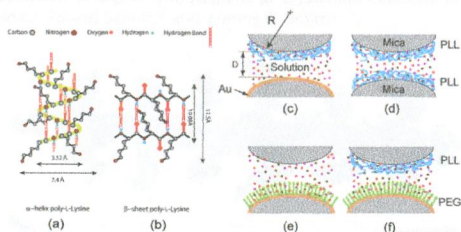
Bio-Inspired, Melanin-Like Nanoparticles as a Highly Efficient Contrast Agent for T_1 -Weighted Magnetic Resonance Imaging

Kuk-Youn Ju, Jae Won Lee, Geun Ho Im, Sanghee Lee, Jung Pyo, Seung Bum Park, Jung Hee Lee,* and Jin-Kyu Lee*



Understanding the Effect of Secondary Structure on Molecular Interactions of Poly-L-lysine with Different Substrates by SFA

Mojtaba Binazadeh, Ali Faghihnejad, Larry D. Unsworth,* and Hongbo Zeng*



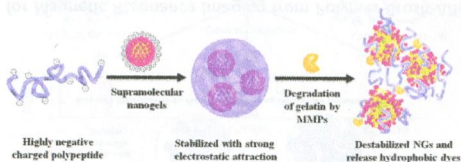
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Matthew B. Dickerson, Scott P. Fillery, Hilmar Koerner, Kristi M. Singh, Katie Martinick, Lawrence F. Drummy, Michael F. Durstock, Richard A. Vaia, Fiorenzo G. Omenetto, David L. Kaplan, and Rajesh R. Naik*



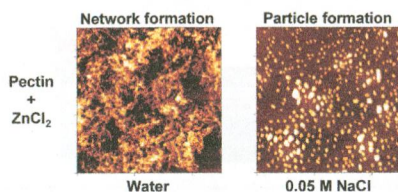
Natural Polypeptide-Based Supramolecular Nanogels for Stable Noncovalent Encapsulation

Keunsuk Kim, Boram Bae, Young Ji Kang, Jwa-Min Nam, Sebyung Kang, and Ja-Hyoung Ryu*



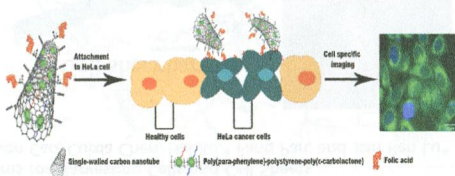
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Helene Jonassen,* Alessandro Treves, Anna-Lena Kjøniksen, Gro Smistad, and Marianne Hiorth



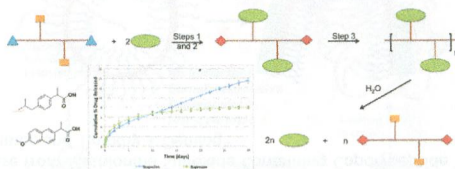
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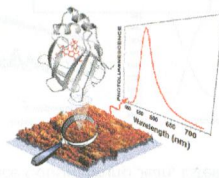
Biodegradable Polyesters Containing Ibuprofen and Naproxen As Pendant Groups

Roselin Rosario-Meléndez, Weiling Yu, and Kathryn E. Uhrich*

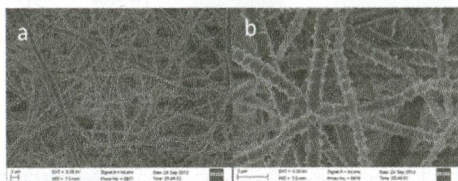


Encapsulation of a Rhodamine Dye within a Bile Acid Binding Protein: Toward Water Processable Functional Bio Host-Guest Materials

Simona Tomaselli, Umberto Giovannella, Katuscia Pagano, Giuseppe Leone, Serena Zanzoni, Michael Assfalg, Francesco Meinardi, Henriette Molinari, Chiara Botta,* and Laura Ragona*

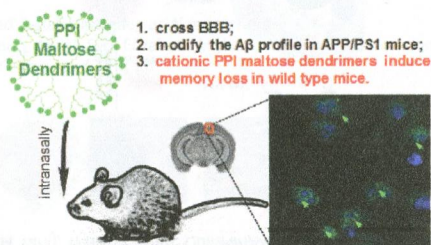


Poly(ϵ -caprolactone) Nanofibers with a Self-Induced Nanohybrid Shish-Kebab Structure Mimicking Collagen Fibrils
Xiaofeng Wang, Max R. Salick, Xiaodong Wang, Travis Cordie, Wenjuan Han, Yiyan Peng, Qian Li,* and Lih-Sheng Turng*



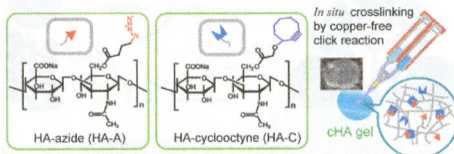
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O. Klementieva,* E. Aso, D. Filippini, N. Benseny-Cases, M. Carmona, S. Juvés, D. Appelhans, J. Cladera, and I. Ferrer*



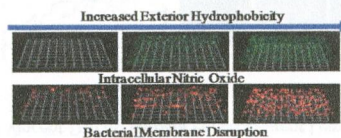
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Akira Takahashi, Yukimitsu Suzuki, Takashi Suhara, Kiyohiko Omichi, Atsushi Shimizu, Kiyoshi Hasegawa, Norihiro Kokudo, Seiichi Ohta, and Taichi Ito*



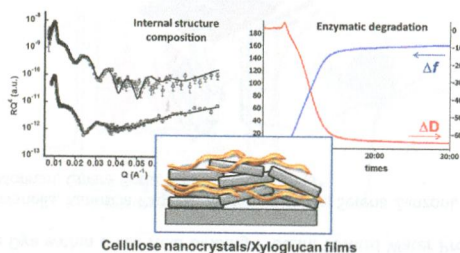
Nitric Oxide-Releasing Amphiphilic Poly(amidoamine) (PAMAM) Dendrimers as Antibacterial Agents

Yuan Lu, Danielle L. Slomberg, Anand Shah, and Mark H. Schoenfisch*



Xyloglucan–Cellulose Nanocrystal Multilayered Films: Effect of Film Architecture on Enzymatic Hydrolysis

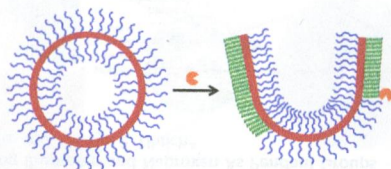
Carole V. Cerclier, Aurélie Guyomard-Lack, Fabrice Cousin, Bruno Jean, Estelle Bonnin, Bernard Cathala,* and Céline Moreau*



Cellulose nanocrystals/Xyloglucan films

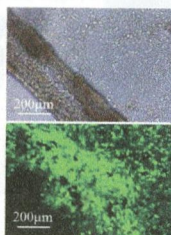
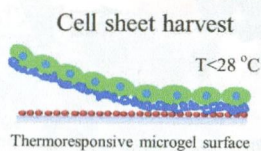
Enzyme-Triggered Cargo Release from Methionine Sulfoxide Containing Copolyptide Vesicles

April R. Rodriguez, Jessica R. Kramer, and Timothy J. Deming*



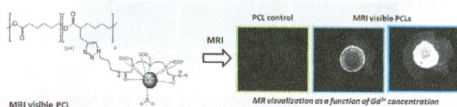
Thermoresponsive Microgel Films for Harvesting Cells and Cell Sheets

Yongqing Xia, Xinlong He, Meiwen Cao, Cuixia Chen, Hai Xu,* Fang Pan, and Jian Ren Lu*

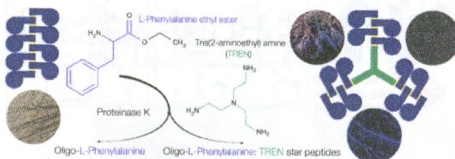


MRI-Visible Poly(ϵ -caprolactone) with Controlled Contrast Agent Ratios for Enhanced Visualization in Temporary Imaging Applications

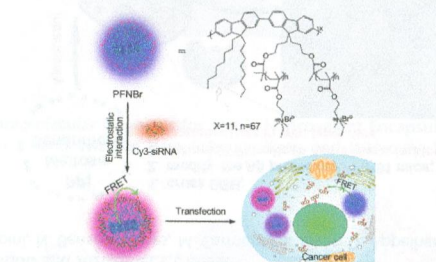
Sarah El Habnoui, Benjamin Nottelet,* Vincent Darcos, Barbara Porsio, Laurent Lemaire, Florence Franconi, Xavier Garric, and Jean Coudane

**Proteinase K-Catalyzed Synthesis of Linear and Star Oligo(L-phenylalanine) Conjugates**

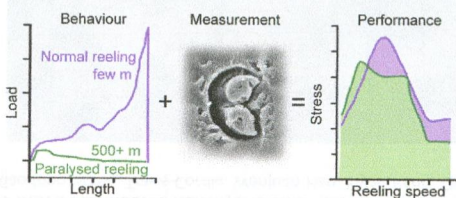
Jose M. Ageitos, Peter J. Baker, Michihiro Sugahara, and Keiji Numata*

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Rongcui Jiang, Xiaomei Lu, Minhua Yang, Weixing Deng, Quli Fan,* and Wei Huang*

**Forced Reeling of *Bombyx mori* Silk: Separating Behavior and Processing Conditions**

Beth Mortimer, Chris Holland,* and Fritz Vollrath

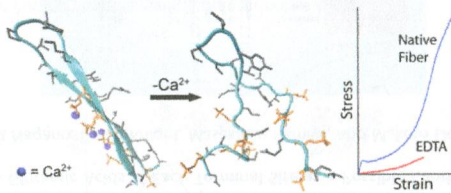


Photoprotection by Silk Cocoons

Jasjeet Kaur, Rangam Rajkhowa, Takuya Tsuzuki, Keith Millington, Jin Zhang, and Xungai Wang*

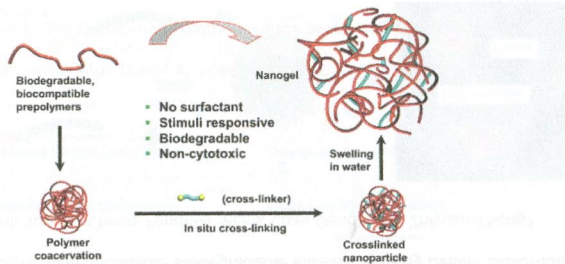
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Nicholas N. Ashton, Daniel R. Roe, Robert B. Weiss, Thomas E. Cheatham III, and Russell J. Stewart*



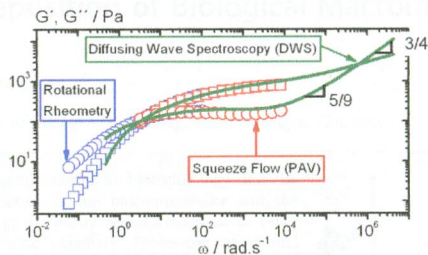
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Hiromitsu Urakami, Jens Hentschel, Kellie Seetho, Hanxiang Zeng, Kanika Chawla, and Zhibin Guan*



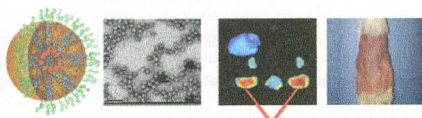
Chain Flexibility and Dynamics of Polysaccharide Hyaluronan in Entangled Solutions: A High Frequency Rheology and Diffusing Wave Spectroscopy Study

C. Oelschlaeger,* M. Cota Pinto Coelho, and N. Willenbacher



Evaluation of Doxorubicin-Loaded 3-Helix Micelles as Nanocarriers

Nikhil Dube, Jessica Y. Shu, He Dong, Jai W. Seo, Elizabeth Ingham, Azadeh Kheiriloomoo, Pin-Yuan Chen, John Forsayeth, Krystof Bankiewicz, Katherine W. Ferrara, and Ting Xu*



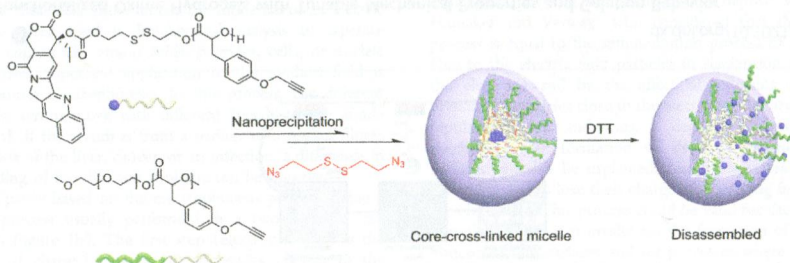
DOX-loaded 3-helix micelles

Selective tumor accumulation with minimal off-target toxicity



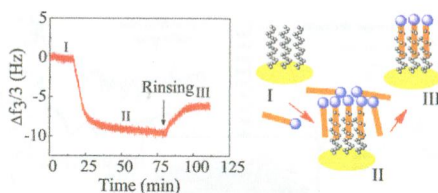
Redox-Responsive, Core-Cross-Linked Micelles Capable of On-Demand, Concurrent Drug Release and Structure Disassembly

Hua Wang, Li Tang, Chunlai Tu, Ziyuan Song, Qian Yin, Lichen Yin, Zhonghai Zhang, and Jianjun Cheng*



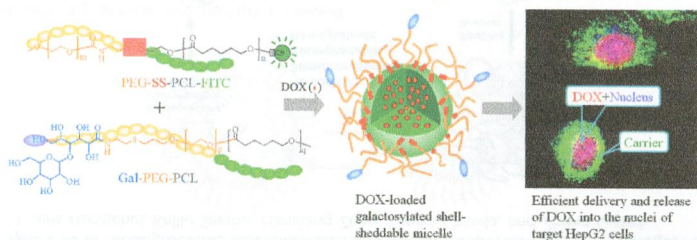
The Dynamics of Complex Formation between Amylose Brushes on Gold and Fatty Acids by QCM-D

Zheng Cao, Theodoros Tsoufis, Tiziana Svaldo-Lanero, Anne-Sophie Duwez, Petra Rudolf, and Katja Loos*



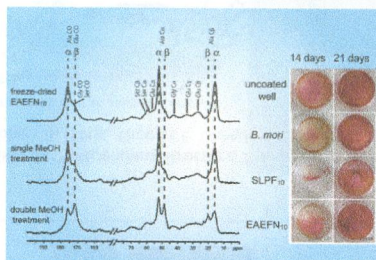
Ligand-Directed Reduction-Sensitive Shell-Sheddable Biodegradable Micelles Actively Deliver Doxorubicin into the Nuclei of Target Cancer Cells

Yinan Zhong, Weijing Yang, Huanli Sun, Ru Cheng, Fenghua Meng, Chao Deng,* and Zhiyuan Zhong*



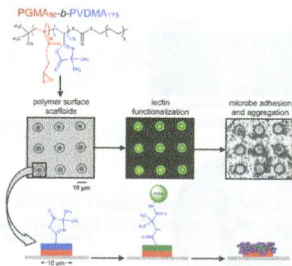
Synthesis and Characterization of Water-Soluble Silk Peptides and Recombinant Silk Protein Containing Polyalanine, the Integrin Binding Site, and Two Glutamic Acids at Each Terminal Site as a Possible Candidate for Use in Bone Repair Materials

Tetsuo Asakura,* Yu Suzuki, Aya Nagano, David Knight, Masakatsu Kamiya, and Makoto Demura



Lectin-Functionalized Poly(glycidyl methacrylate)-*block*-poly(vinylidimethyl azlactone) Surface Scaffolds for High Avidity Microbial Capture

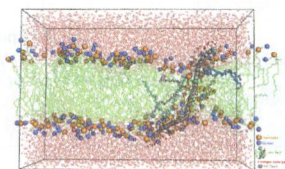
Ryan R. Hansen, Juan Pablo Hineostroa, Katherine R. Shubert, Jennifer L. Morrell-Falvey, Dale A. Pelletier, Jamie M. Messman, S. Michael Kilbey II, Bradley S. Lokitz, and Scott T. Retterer*

**Peptide-Functionalized Oxime Hydrogels with Tunable Mechanical Properties and Gelation Behavior**

Fei Lin, Jiayi Yu, Wen Tang, Jukuan Zheng, Adrian Defante, Kai Guo, Chrys Wesdemiotis, and Matthew L. Becker*

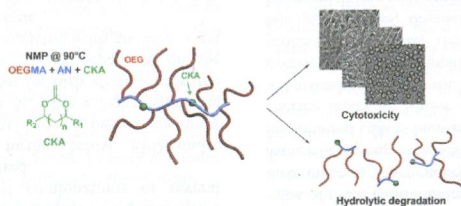
**Characterization of Conformation and Interaction of Gene Delivery Vector Polyethylenimine with Phospholipid Bilayer at Different Protonation State**

Chandan Kumar Choudhury,* Abhinav Kumar, and Sudip Roy

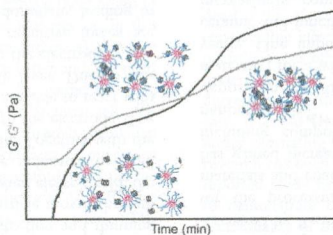


Degradable and Comb-Like PEG-Based Copolymers by Nitroxide-Mediated Radical Ring-Opening Polymerization

Vianney Delplace, Antoine Tardy, Simon Harrison, Simona Mura, Didier Gigmes, Yohann Guillauneuf, and Julien Nicolas*

**Gelation Kinetics and Viscoelastic Properties of Pluronic and α -Cyclodextrin-Based Pseudopolyrotaxane Hydrogels**

Clementine Pradal, Kevin S. Jack, Lisbeth Grøndahl, and Justin J. Cooper-White.*

**Endolytic, pH-Responsive HPMA-*b*-(L-Glu) Copolymers Synthesized via Sequential Aqueous RAFT and Ring-Opening Polymerizations**

Andrew C. Holley, Jacob G. Ray, Wenming Wan, Daniel A. Savin, and Charles L. McCormick*

