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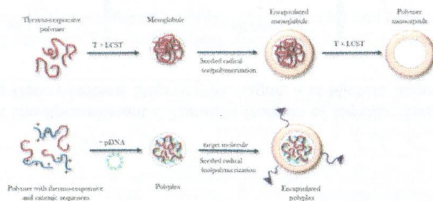
Reviews

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Polymeric Nanoparticle Engineering: From Temperature-Responsive Polymer Mesoglobules to Gene Delivery Systems

Emi Haladjova, Natalia Toncheva-Moncheva, Margarita D. Apostolova, Barbara Trzebicka, Andrzej Dworak, Petar Petrov, Ivaylo Dimitrov, Stanislav Rangelov, and Christo B. Tsvetanov*



Articles

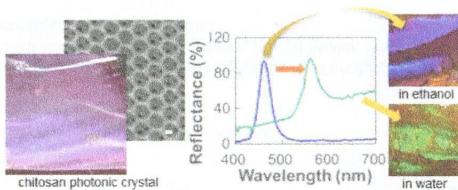
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DOI: 10.1021/bm501374t

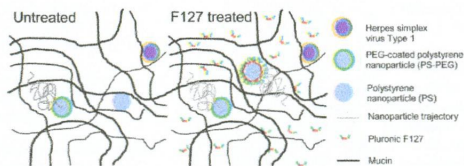
Fabrication of 3D Photonic Crystals from Chitosan That Are Responsive to Organic Solvents

Guanbo Huang, Yibing Yin, Zeng Pan, Mingxi Chen, Lei Zhang, Yu Liu,* Yongli Zhang, and Jianping Gao



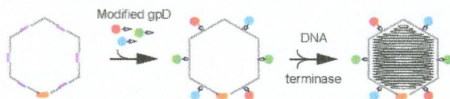
Pretreatment of Human Cervicovaginal Mucus with Pluronic F127 Enhances Nanoparticle Penetration without Compromising Mucus Barrier Properties to Herpes Simplex Virus

Laura M. Ensign,* Samuel K. Lai, Ying-Ying Wang, Ming Yang, Olcay Mert, Justin Hanes, and Richard Cone*



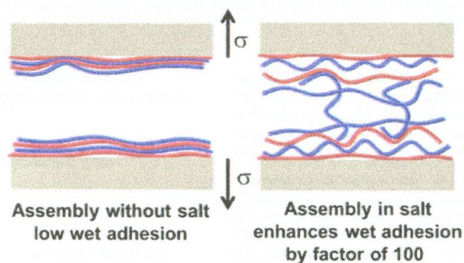
Phage Lambda Capsids as Tunable Display Nanoparticles

Jenny R. Chang, Eun-Ho Song, Eri Nakatani-Webster, Lucas Monkkonen, Daniel M. Ratner, and Carlos E. Catalano*



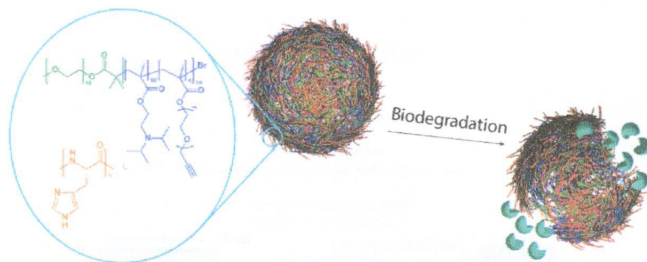
Robust and Tailored Wet Adhesion in Biopolymer Thin Films

Torbjörn Petterson,* Samuel A. Pendergraph,* Simon Utsel, Andrew Marais, Emil Gustafsson, and Lars Wågberg*



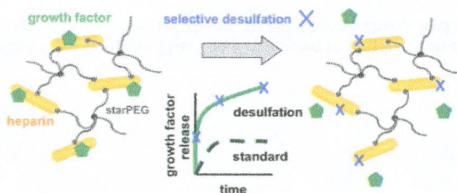
Tuning Particle Biodegradation through Polymer–Peptide Blend Composition

Sylvia T. Gunawan, Kristian Kempe, Georgina K. Such, Jiwei Cui, Kang Liang, Joseph J. Richardson, Angus P. R. Johnston, and Frank Caruso*



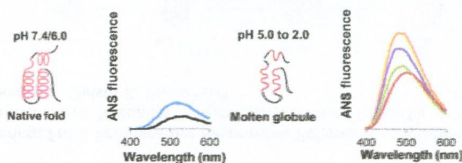
Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery

Andrea Zieris, Ron Dockhorn, Anika Röhrich, Ralf Zimmermann, Martin Müller, Petra B. Welzel, Mikhail V. Tsurkan, Jens-Uwe Sommer, Uwe Freudenberg, and Carsten Werner*



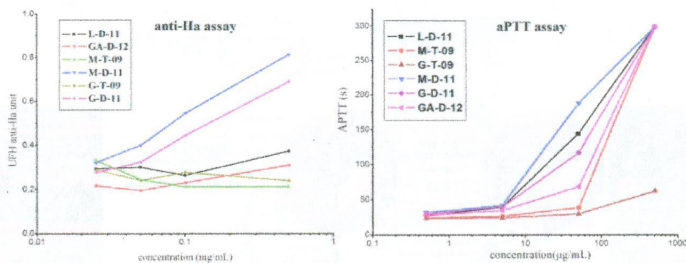
Effect of pH on the Structure of the Recombinant C-Terminal Domain of *Nephila clavipes* Dragline Silk Protein

Martin Gauthier, Jérémie Leclerc, Thierry Lefèvre, Stéphane M. Gagné, and Michèle Auger*



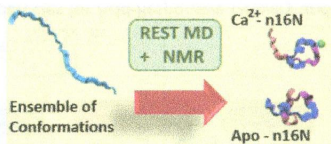
Synthesis and Anticoagulant Activity of Polyureas Containing Sulfated Carbohydrates

Yongshun Huang, Maureen A. Shaw, Eric S. Mullins, Terence L. Kirley, and Neil Ayres*



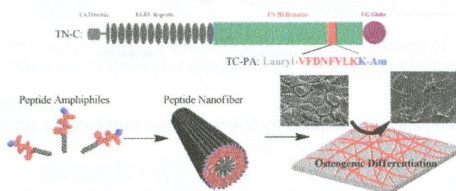
Equilibrium Conformational Ensemble of the Intrinsically Disordered Peptide n16N: Linking Subdomain Structures and Function in Nacre

Aaron H. Brown, P. Mark Rodger, John Spencer Evans, and Tiffany R. Walsh*



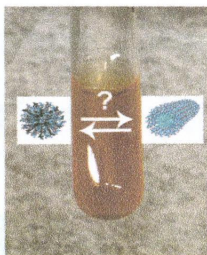
Tenascin-C Mimetic Peptide Nanofibers Direct Stem Cell Differentiation to Osteogenic Lineage

Melihe Sever, Busra Mammadov, Mustafa O. Guler,* and Ayshe B. Tekinay*



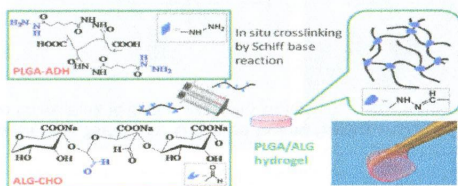
Probing Peptide Amphiphile Self-Assembly in Blood Serum

Arijit Ghosh, Christian J. Buettner, Aaron A. Manos, Ashley J. Wallace, Michael F. Tweedle, and Joshua E. Goldberger*



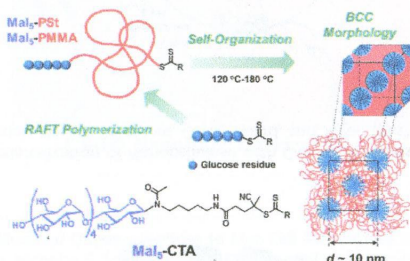
Injectable In Situ Self-Cross-Linking Hydrogels Based on Poly(L-glutamic acid) and Alginate for Cartilage Tissue Engineering

Shifeng Yan,* Taotao Wang, Long Feng, Jie Zhu, Kunxi Zhang, Xuesi Chen,* Lei Cui,* and Jingbo Yin*



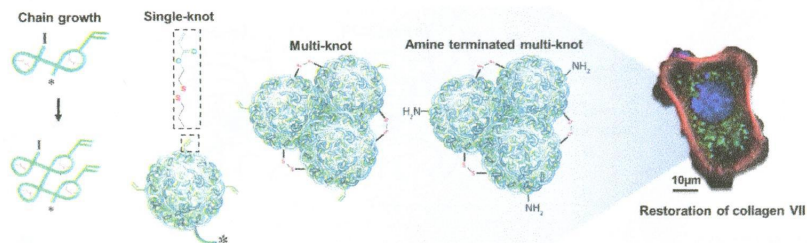
Maltopentaose-Conjugated CTA for RAFT Polymerization Generating Nanostructured Bioresource-Block Copolymer

Daichi Togashi, Issei Otsuka, Redouane Borsali, Koichi Takeda, Kazushi Enomoto, Seigou Kawaguchi, and Atsushi Narumi*

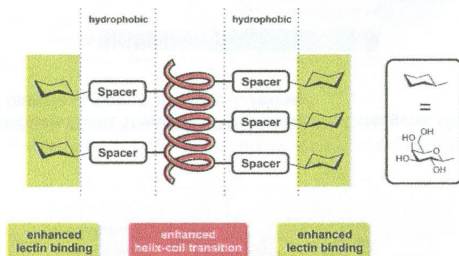


Beyond Branching: Multiknot Structured Polymer for Gene Delivery

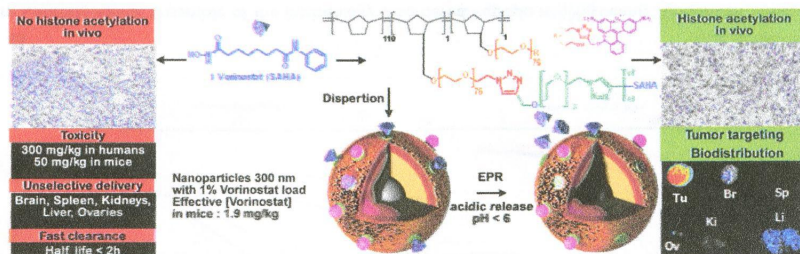
Ahmed Aied, Yu Zheng, Ben Newland, and Wenxin Wang*

**Hydrophobic Spacers Enhance the Helicity and Lectin Binding of Synthetic, pH-Responsive Glycopolypeptides**

Robert Mildner and Henning Menzel*

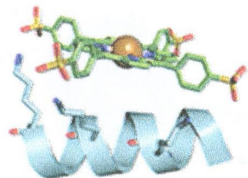
**Vorinostat–Polymer Conjugate Nanoparticles for Acid-Responsive Delivery and Passive Tumor Targeting**

Iza Denis, Fatima el Bahhaj, Floraine Collette, Régis Delatouche, Fabien Gueugnon, Daniel Pouliquen, Loïc Pichavant, Valérie Héroguez, Marc Grégoire, Philippe Bertrand,* and Christophe Blanquart*



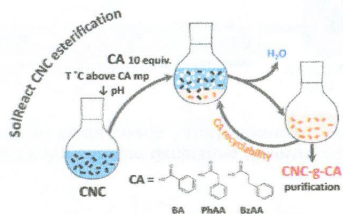
Testing the Role of Charge and Structure on the Stability of Peptide–Porphyrin Complexes

James C. Taggart, Elizabeth Z. Welch, Mary F. Mulqueen, Vincent B. Dioguardi, Alexandra G. Cauer, Bashkim Kokona, and Robert Fairman*



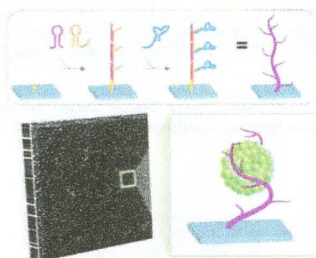
Green Process for Chemical Functionalization of Nanocellulose with Carboxylic Acids

Etzael Espino-Pérez, Sandra Domenek, Naceur Belgacem, Cécile Sillard, and Julien Bras*



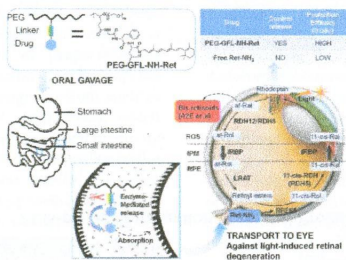
Polymerization of Affinity Ligands on a Surface for Enhanced Ligand Display and Cell Binding

Erin Richards, Shihui Li, Niancao Chen, Mark R. Battig, and Yong Wang*



Multifunctional PEG Retinylamine Conjugate Provides Prolonged Protection against Retinal Degeneration in Mice

Guanping Yu, Xueming Wu, Nadia Ayat, Akiko Maeda, Song-Qi Gao, Marcin Golczak, Krzysztof Palczewski, and Zheng-Rong Lu*

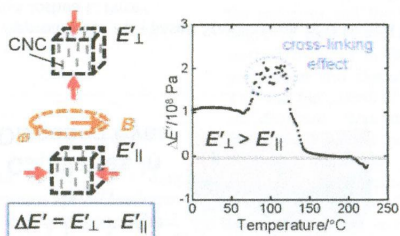


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Anisotropic Polymer Composites Synthesized by Immobilizing Cellulose Nanocrystal Suspensions Specifically Oriented under Magnetic Fields

Mio Tatsumi, Fumiko Kimura, Tsunehisa Kimura, Yoshikuni Teramoto, and Yoshiyuki Nishio*

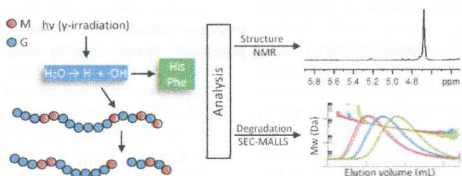


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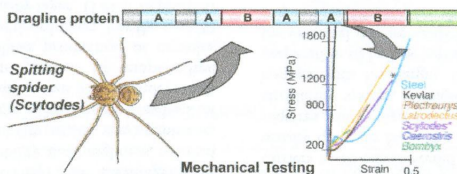
Influence of Amino Acids, Buffers, and pH on the γ -Irradiation-Induced Degradation of Alginates

Ann-Sissel T. Ulset, Hideki Mori, Marianne Ø. Dalheim, Masayuki Hara, and Bjørn E. Christensen*



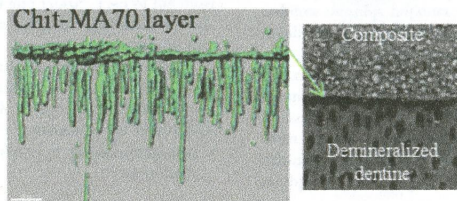
Diverse Formulas for Spider Dragline Fibers Demonstrated by Molecular and Mechanical Characterization of Spitting Spider Silk

Sandra M. Correa-Garwal* and Jessica E. Garb*



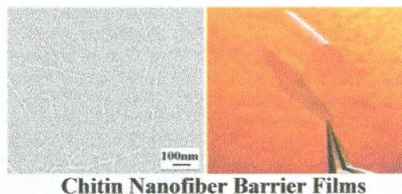
Use of Methacrylate-Modified Chitosan to Increase the Durability of Dentine Bonding Systems

Marina Diolosa, Ivan Donati,* Gianluca Turco, Milena Cadenaro, Roberto Di Lenarda, Lorenzo Breschi, and Sergio Paoletti



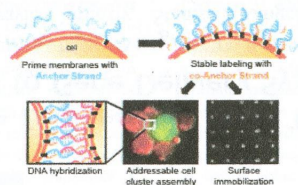
Facile Route to Produce Chitin Nanofibers as Precursors for Flexible and Transparent Gas Barrier Materials

Jie Wu, Kuang Zhang, Natalie Girouard, and J. Carson Meredith*



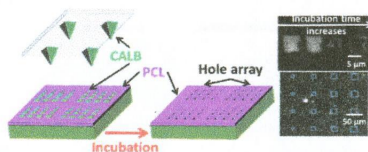
Efficient Targeting of Fatty-Acid Modified Oligonucleotides to Live Cell Membranes through Stepwise Assembly

Robert J. Weber, Samantha I. Liang, Nicholas S. Selden, Tejal A. Desai, and Zev J. Gartner*



High Throughput, High Resolution Enzymatic Lithography Process: Effect of Crystallite Size, Moisture, and Enzyme Concentration

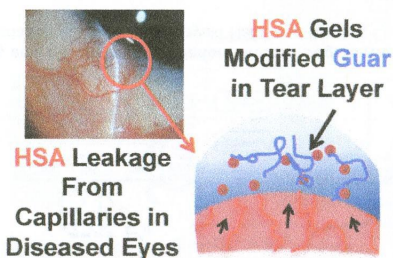
Zhantong Mao, Manoj Ganesh, Michael Bucaro, Igor Smolianski, Richard A. Gross, and Alan M. Lyons*



Notes

Weak Gelation of Hydrophobic Guar by Albumin in Simulated Human Tear Solutions

Roozbeh Mafi, Robert Pelton,* Yuguo Cui, and Howard Ketelson



Cys₇-Lys₁₊₃-Lys₁₊₄ Triad: A General Approach for PEG-Based Stabilization of α -Helical Proteins

Brijesh K. Pandey, Mason S. Smith, and Joshua L. Price*

