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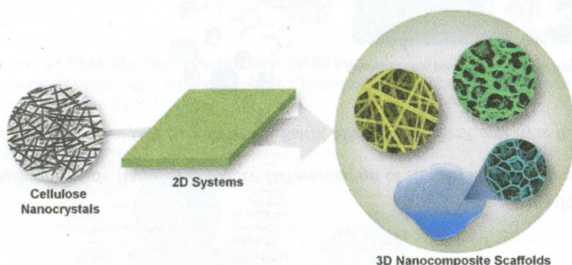
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The Potential of Cellulose Nanocrystals in Tissue Engineering Strategies

Rui M. A. Domingues, Manuela E. Gomes,* and Rui L. Reis

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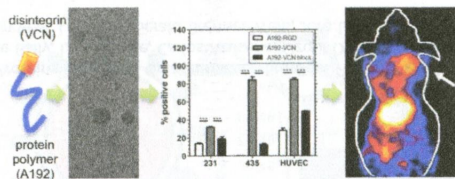
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Multimeric Disintegrin Protein Polymer Fusions That Target Tumor Vasculature

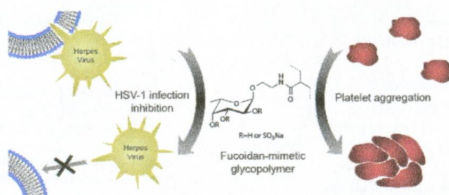
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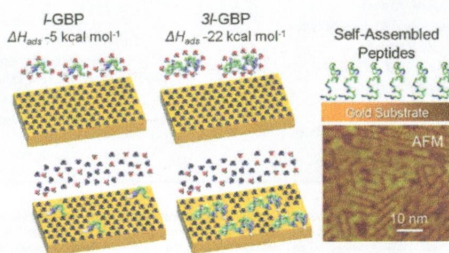
Synthesis and Biological Evaluation of Fucoidan-Mimetic Glycopolymers through Cyanoxy-Mediated Free-Radical Polymerization

Mattias Tengdelius, Chyan-Jang Lee, Magnus Grenegård, May Griffith, Peter Pålsson, and Peter Konradsson*



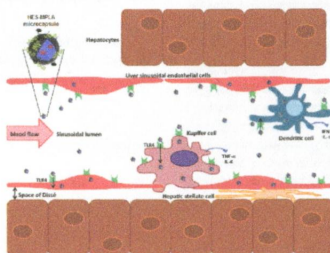
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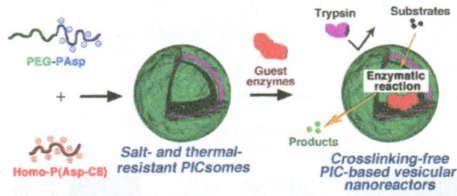
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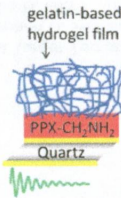
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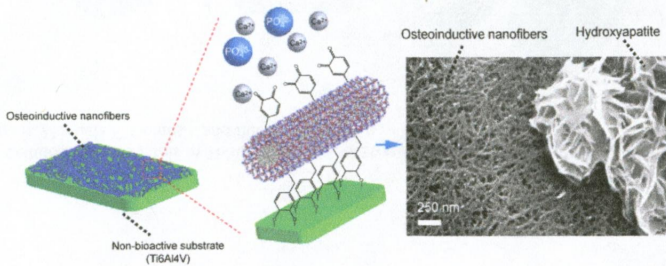
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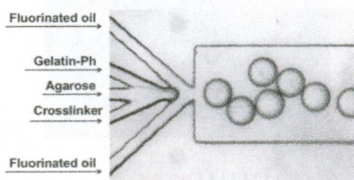
Bone-Like Mineral Nucleating Peptide Nanofibers Induce Differentiation of Human Mesenchymal Stem Cells into Mature Osteoblasts

Hakan Ceylan, Samet Kocabay, Hilal Unal Gulsuner, Ozlem S. Balcik, Mustafa O. Guler,* and Ayse B. Tekinay*



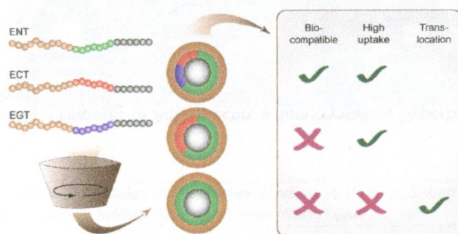
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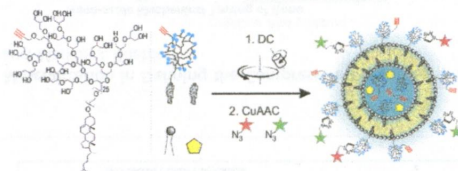
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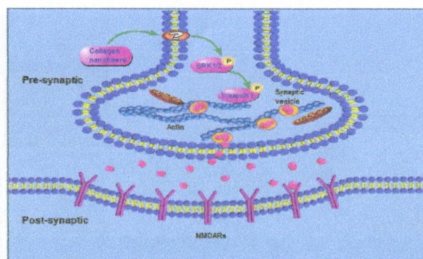
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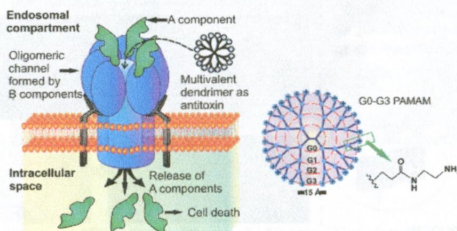
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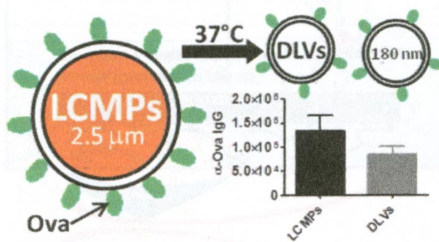
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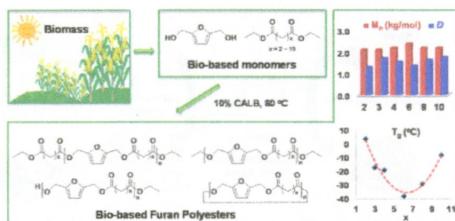
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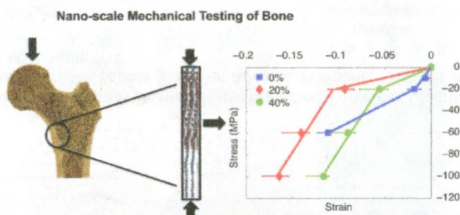
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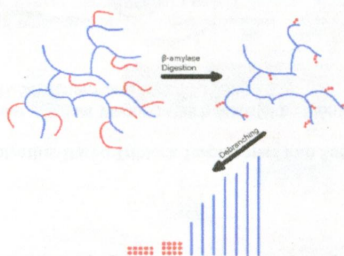
Role of Intrafibrillar Collagen Mineralization in Defining the Compressive Properties of Nascent Bone

Arun K. Nair, Alfonso Gautieri, and Markus J. Buehler*



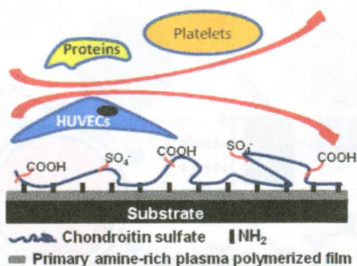
Causal Relations between Structural Features of Amylopectin, a Semicrystalline Hyperbranched Polymer

Torsten Witt and Robert G. Gilbert*



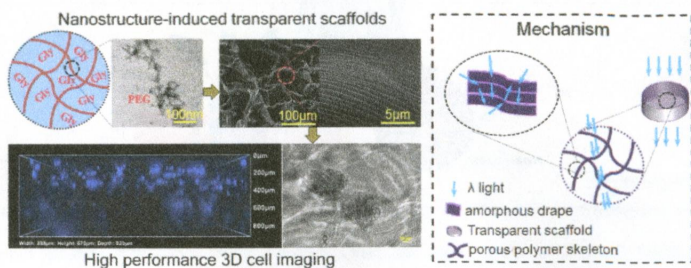
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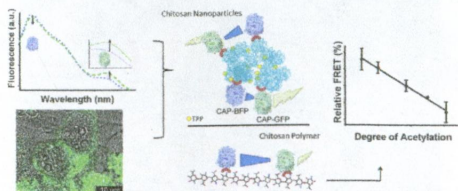
Glycerol-Mediated Nanostructure Modification Leading to Improved Transparency of Porous Polymeric Scaffolds for High Performance 3D Cell Imaging

Shan Zhao, Zhiyuan Shen, Jingyu Wang, Xiaokang Li, Yang Zeng, Bingjie Wang, Yonghong He, and Yanan Du*



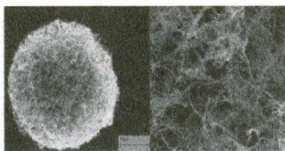
Affinity Protein-Based FRET Tools for Cellular Tracking of Chitosan Nanoparticles and Determination of the Polymer Degree of Acetylation

J. P. Fuenzalida, T. Weikert, S. Hoffmann, C. Vila-Sanjurjo, B. M. Moerschbacher, F. M. Goycoolea,* and S. Kolkenbrock*

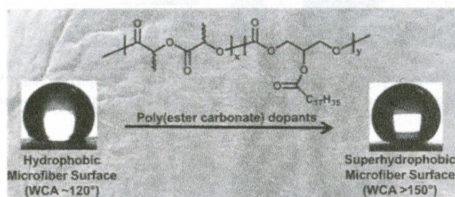


Aerogel Microspheres from Natural Cellulose Nanofibrils and Their Application as Cell Culture Scaffold

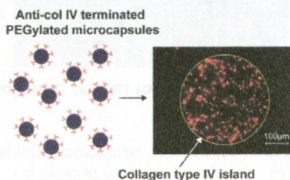
Hongli Cai, Sudhir Sharma, Wenying Liu, Wei Mu, Wei Liu, Xiaodan Zhang, and Yulin Deng*

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Jonah A. Kaplan, Hongyi Lei, Rong Liu, Robert Padera, Yolonda L. Colson, and Mark W. Grinstaff*

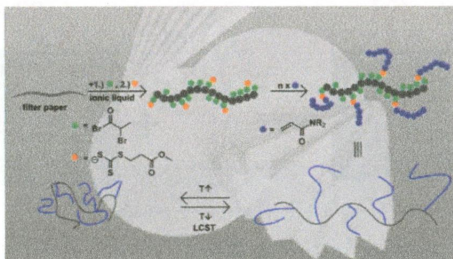
**Biofunctionalization of PEGylated Microcapsules for Exclusive Binding to Protein Substrates**

Devendra I. Deo, Julien E. Gautrot, Gleb B. Sukhorukov,* and Wen Wang*



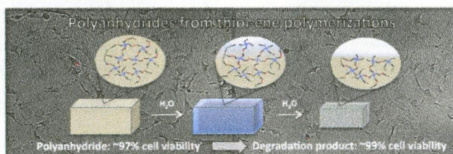
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Andrea Hufendiek, Vanessa Trouillet, Michael A. R. Meier,* and Christopher Barner-Kowollik*



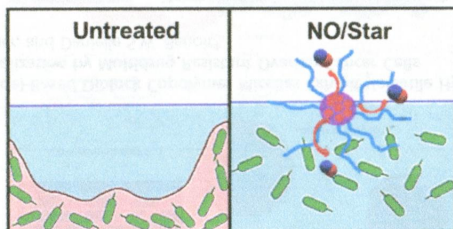
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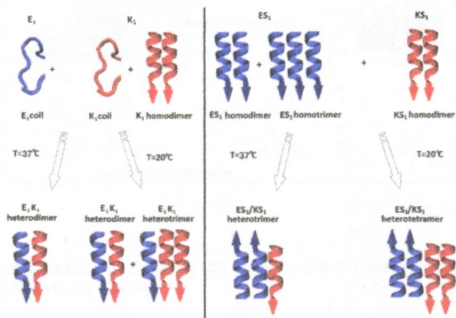
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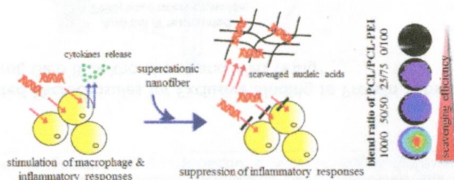
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Michal Pechar,* Robert Pola, Richard Laga, Alena Braunová, Sergey K. Filippov, Anna Bogomolova, Lucie Bednářová, Ondřej Vaněk, and Karel Ulbrich



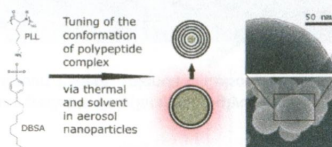
Nucleic Acid-Scavenging Electrospun Nanofibrous Meshes for Suppressing Inflammatory Responses

Jihyun Kang and Hyuk Sang Yoo*



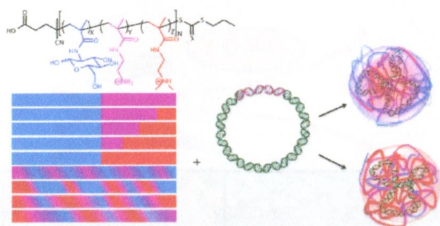
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Antti Rahikkala, Susanna Junnila, Ville Vartiainen, Janne Ruokolainen, Olli Ikkala, Esko Kauppinen, and Janne Raula*



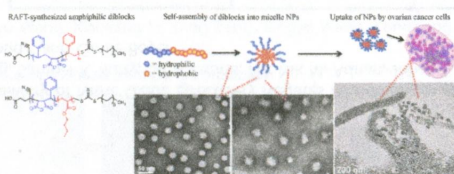
Investigating the Effects of Block versus Statistical Glycopolycations Containing Primary and Tertiary Amines for Plasmid DNA Delivery

Dustin Sprouse and Theresa M. Reineke*



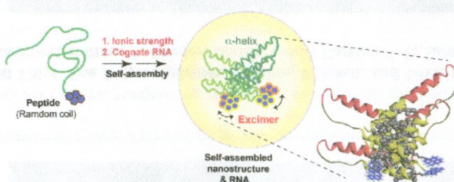
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Michael P. Baranello, Louisa Bauer, and Danielle S.W. Benoit*



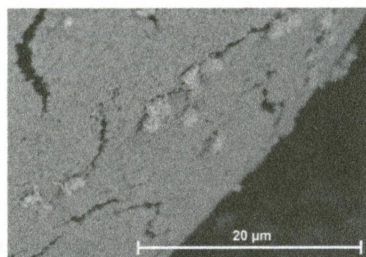
Macromolecular Sensing of RNAs by Exploiting Conformational Changes in Supramolecular Nanostructures

So-hee Han, Hee-won Kim, Woo-jin Jeong, and Yong-beom Lim*



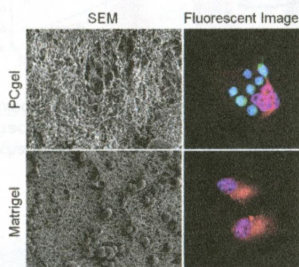
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René Weiss, Andreas Spittler, Gerd Schmitz, Michael B. Fischer, and Viktoria Weber*



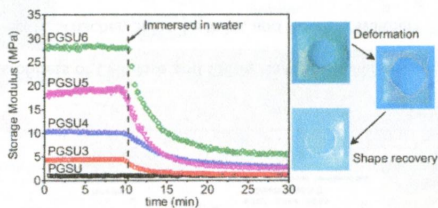
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Ching-Ting Tsao, Forrest M. Kievit, Ali Ravanpay, Ariane E. Erickson, Michael C. Jensen, Richard G. Ellenbogen, and Miqin Zhang*



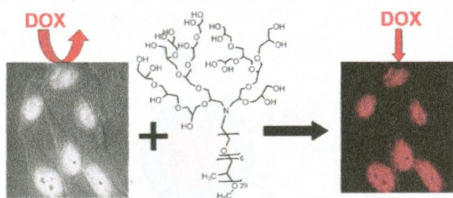
Poly(glycerol sebacate urethane)–Cellulose Nanocomposites with Water-Active Shape-Memory Effects

Tongfei Wu, Martin Frydrych, Kevin O'Kelly, and Biqiong Chen*

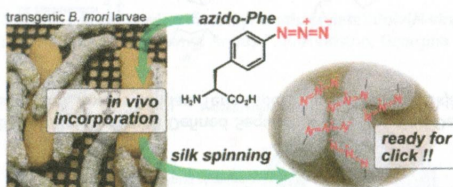


Cytotoxicity and Chemosensitizing Activity of Amphiphilic Poly(glycerol)–Poly(alkylene oxide) Block Copolymers

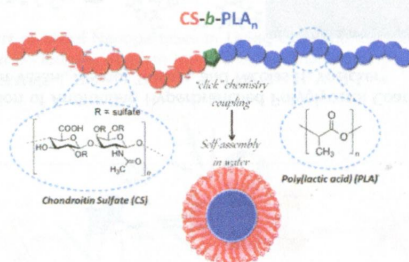
Tatiana V. Demina, Olga A. Budkina, Gennadii A. Badun, Nickolay S. Melik-Nubarov, Holger Frey, Sophie S. Müller, Jörg Nieberle, and Irina D. Grozdova*

Production of *Bombyx mori* Silk Fibroin Incorporated with Unnatural Amino Acids

Hidetoshi Teramoto* and Katsura Kojima

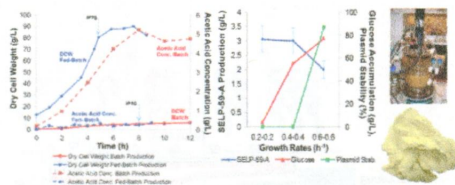
Sulfated Glycosaminoglycan-Based Block Copolymer: Preparation of Biocompatible Chondroitin Sulfate-*b*-poly(lactic acid) Micelles

André R. Fajardo, Alexandre Guerry, Elizandra A. Britta, Celso V. Nakamura, Edvani C. Muniz, Redouane Borsali, and Sami Halila*



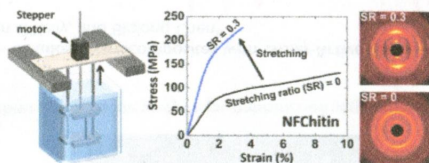
High Level Biosynthesis of a Silk-Elastin-like Protein in *E. coli*

Tony Collins,* Mário Barroca, Fernando Branca, Jorge Padrão, Raul Machado, and Margarida Casal*



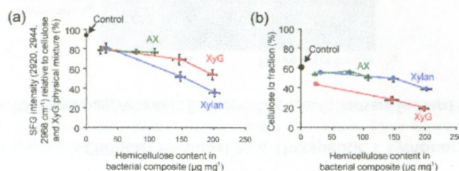
Mechanical Performance of Macrofibers of Cellulose and Chitin Nanofibrils Aligned by Wet-Stretching: A Critical Comparison

Jose Guillermo Torres-Rendon, Felix H. Schacher, Shinsuke Ifuku, and Andreas Walther*



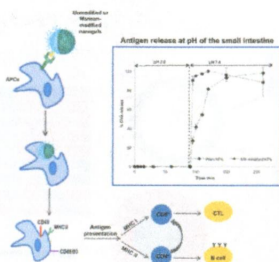
Effects of Plant Cell Wall Matrix Polysaccharides on Bacterial Cellulose Structure Studied with Vibrational Sum Frequency Generation Spectroscopy and X-ray Diffraction

Yong Bum Park,* Christopher M. Lee, Kabindra Kafle, Sunkyu Park, Daniel J. Cosgrove, and Seong H. Kim*



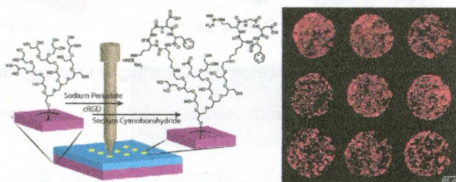
Surface-Modified P(HEMA-co-MAA) Nanogel Carriers for Oral Vaccine Delivery: Design, Characterization, and In Vitro Targeting Evaluation

Matilde Durán-Lobato, Brenda Carrillo-Conde, Yasmine Khairandish, and Nicholas A. Peppas*



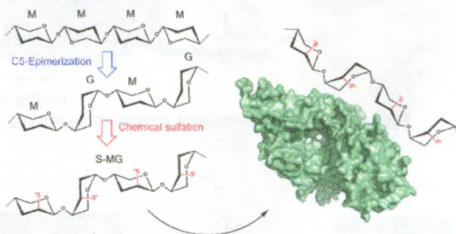
Patterning and Biofunctionalization of Antifouling Hyperbranched Polyglycerol Coatings

Eli Moore, Bahman Delalat, Roshan Vasani, Helmut Thissen, and Nicolas H. Voelcker*



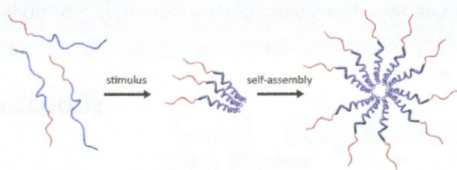
Heparin-Like Properties of Sulfated Alginates with Defined Sequences and Sulfation Degrees

Øystein Arlov, Finn Lillelund Aachmann, Anders Sundan, Terje Espevik, and Gudmund Skjåk-Bræk*



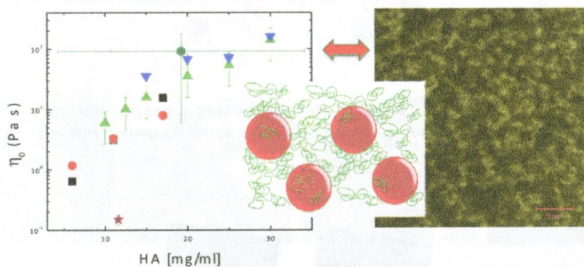
Synthesis and Self-Assembly of Well-Defined Elastin-Like Polypeptide–Poly(ethylene glycol) Conjugates

Mark B. van Eldijk, Ferdinanda C. M. Smits, Niek Vermue, Marjoke F. Debets, Sanne Schoffelen, and Jan C. M. van Hest*



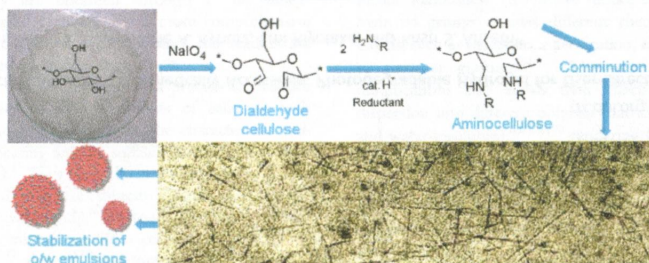
Control Hydrogel-Hyaluronic Acid Aggregation toward the Design of Biomimetic Superlubricants

Raymond P. Seekell III, Rachel Dever, and Yingxi Zhu*



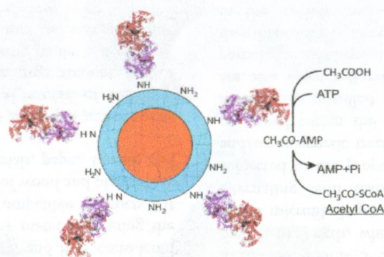
Amphiphilic Cellulose Nanocrystals from Acid-Free Oxidative Treatment: Physicochemical Characteristics and Use as an Oil–Water Stabilizer

Miikka Visanko, Henriikki Liimatainen,* Juho Antti Sirviö, Juha Pentti Heiskanen, Jouko Niinimäki, and Osmo Horni



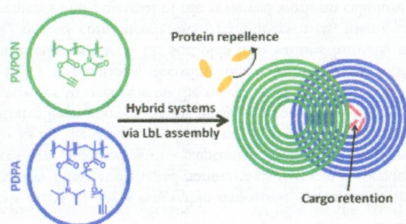
Smart Core–Shell Microgel Support for Acetyl Coenzyme A Synthetase: A Step Toward Efficient Synthesis of Polyketide-Based Drugs

Nidhi C. Dubey, Bijay P. Tripathi, Manfred Stamm, and Leonid Ionov*



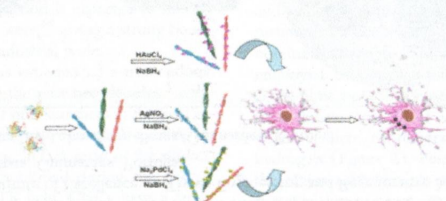
Fundamental Studies of Hybrid Poly(2-(diisopropylamino)ethyl methacrylate)/Poly(*N*-vinylpyrrolidone) Films and Capsules

Sher Leen Ng, James P. Best, Kristian Kempe, Kang Liang, Angus P. R. Johnston, Georgina K. Such, and Frank Caruso*



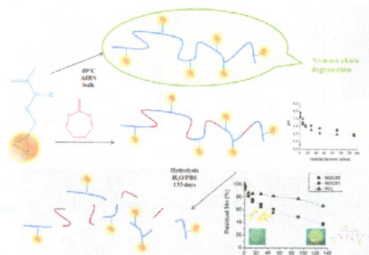
Amyloid Fibrils Enhance Transport of Metal Nanoparticles in Living Cells and Induced Cytotoxicity

Sreenath Bolisetty, Chandra Sekhar Boddupalli, Stephan Handschin, Krishna Chaitanya, Jozef Adamcik, Yasuyuki Saito, Markus G. Manz, and Raffaele Mezzenga*



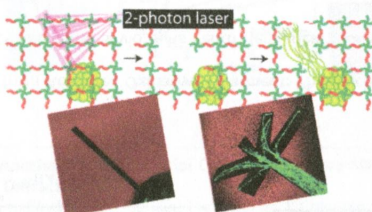
Adjustable Degradation Properties and Biocompatibility of Amorphous and Functional Poly(ester-acrylate)-Based Materials

Jenny Undin, Anna Finne-Wistrand, and Ann-Christine Albertsson*



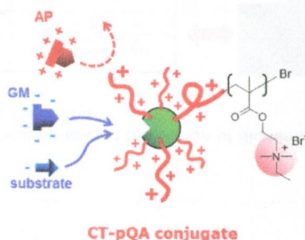
Design and Characterization of a Synthetically Accessible, Photodegradable Hydrogel for User-Directed Formation of Neural Networks

Daniel D. McKinnon, Tobin E. Brown, Kyle A. Kyburz, Emi Kiyotake, and Kristi S. Anseth*



Rational Tailoring of Substrate and Inhibitor Affinity via ATRP Polymer-Based Protein Engineering

Hironobu Murata, Chad S. Cummings, Richard R. Koepsel, and Alan J. Russell*



Additions and Corrections



Correction to Drug-Initiated Ring-Opening Polymerization of *O*-Carboxyanhydrides for the Preparation of Anticancer Drug–Poly(*O*-Carboxyanhydride) Nanoconjugates

Qian Yin, Rong Tong, Yunxiang Xu, Kwanghyun Baek, Lawrence W. Dobrucki, Timothy M. Fan,* and Jianjun Cheng*