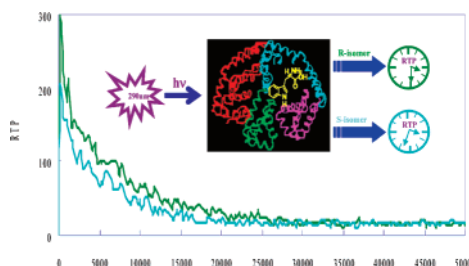


Communications

761 Enantioselective Quenching of Room-Temperature Phosphorescence Lifetimes of Proteins: Bovine and Human Serum Albumins

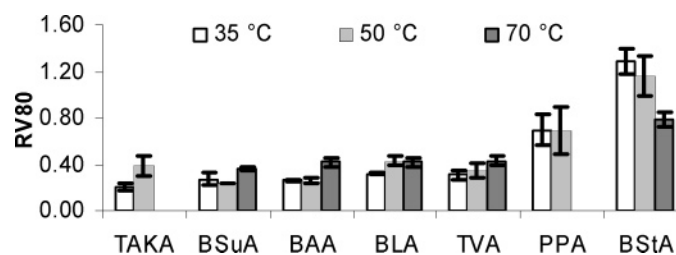
Yanli Wei, Chuan Dong,* Diansheng Liu,
Shaomin Shuang, and Carmen W. Huie



Articles

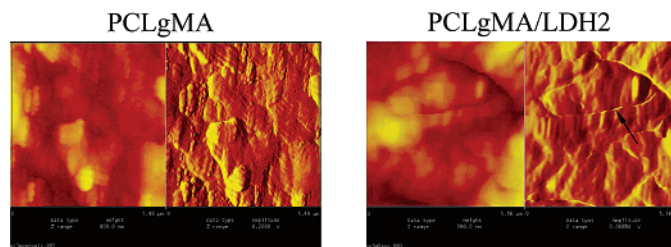
765 Temperature Impacts the Multiple Attack Action of Amylases

Annabel Bijttebier,* Hans Goesaert, and
Jan A. Delcour



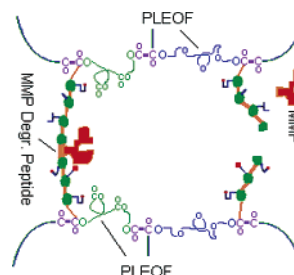
773 Nanometric Dispersion of a Mg/Al Layered Double Hydroxide into a Chemically Modified Polycaprolactone

Pasqualina Mangiacapra,
 Marialuigia Raimondo, Loredana Tammaro,
 Vittoria Vittoria,* Mario Malinconico, and
 Paola Laurienzo



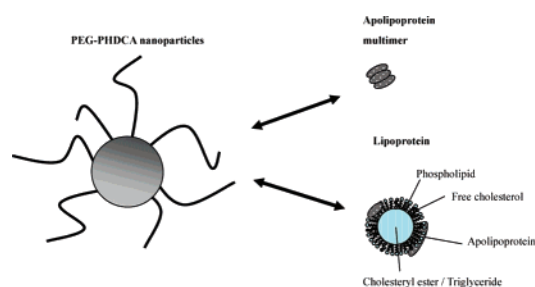
780 Material Properties and Cytocompatibility of Injectable MMP Degradable Poly(lactide ethylene oxide fumarate) Hydrogel as a Carrier for Marrow Stromal Cells

Xuezhong He and Esmail Jabbari*



793 Translocation of Poly(ethylene glycol-co-hexadecyl)cyanoacrylate Nanoparticles into Rat Brain Endothelial Cells: Role of Apolipoproteins in Receptor-Mediated Endocytosis

Hyun R Kim, Karine Andrieux,* Sophie Gil,
 Myriam Taverna, Hélène Chacun,
 Didier Desmaële, Frédéric Taran,
 Dominique Georgin, and Patrick Couvreur



800 Self-organization of Oligopeptides Obtained on Dissolution of Feather Keratins in Superheated Water

Jie Yin, Sanjay Rastogi,* Ann E. Terry, and
 Crisan Popescu



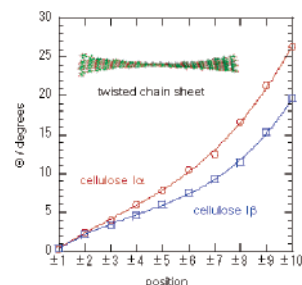
807 Processing Methods of Ultrathin Poly(ε-caprolactone) Films for Tissue Engineering Applications

Kay Siang Tiaw, Swee Hin Teoh,*
 Ran Chen, and Ming Hui Hong



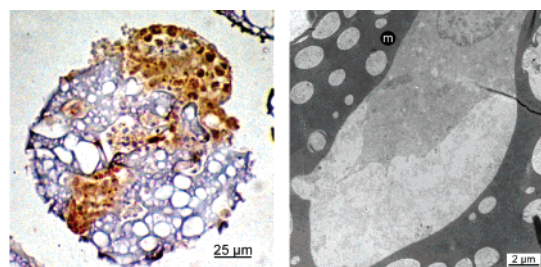
817 Molecular Dynamics Simulations of Solvated Crystal Models of Cellulose I_α and I_β

Toshifumi Yui* and Sachio Hayashi



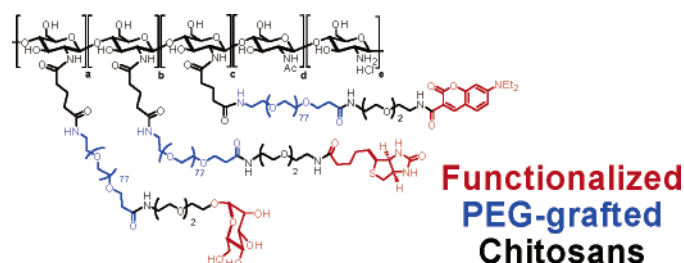
825 Gelatin-Based Microcarriers as Embryonic Stem Cell Delivery System in Bone Tissue Engineering: An in-Vitro Study

S. Tielens, H. Declercq, T. Gorski, E. Lippens, E. Schacht, and M. Cornelissen*



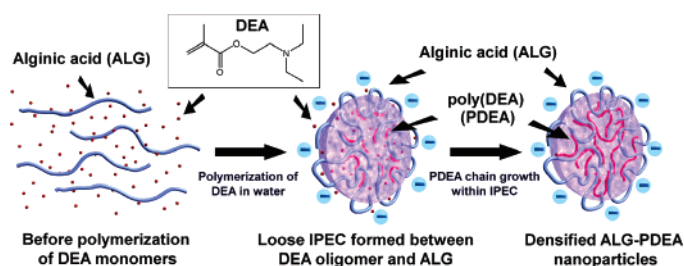
833 Conjugation of Bioactive Ligands to PEG-Grafted Chitosan at the Distal End of PEG

Eduardo Fernandez-Megia, Ramón Novoa-Carballal, Emilio Quiñoá, and Ricardo Riguera*



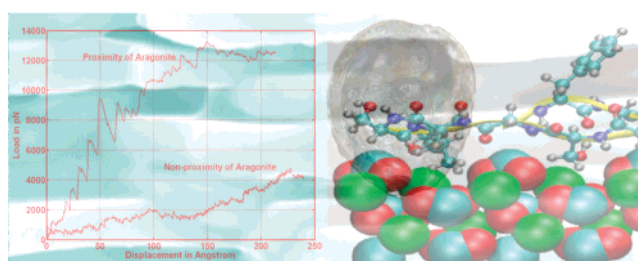
843 Synthesis of Alginate-Poly[2-(diethylamino)ethyl methacrylate] Monodispersed Nanoparticles by a Polymer-Monomer Pair Reaction System

Rui Guo, Leyang Zhang, Zhiping Jiang, Yi Cao, Yin Ding, and Xiqun Jiang*



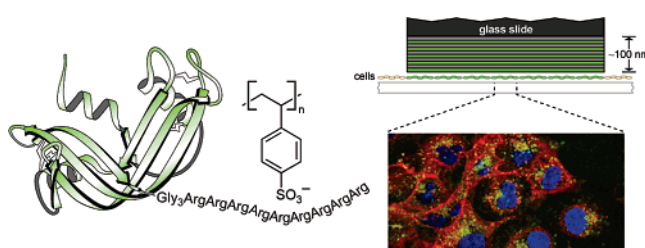
851 Mineral Proximity Influences Mechanical Response of Proteins in Biological Mineral-Protein Hybrid Systems

Pijush Ghosh, Dinesh R. Katti, and Kalpana S. Katti*



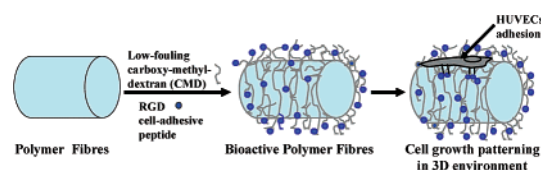
857 Multilayered Films Fabricated from an Oligoarginine-Conjugated Protein Promote Efficient Surface-Mediated Protein Transduction

Christopher M. Jewell, Stephen M. Fuchs, Ryan M. Flessner, Ronald T. Raines,* and David M. Lynn*



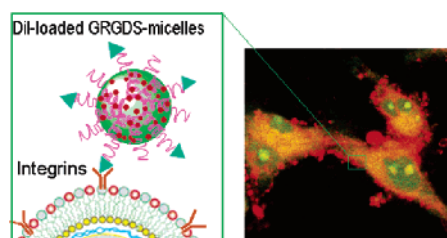
864 Bioactive Polymer Fibers to Direct Endothelial Cell Growth in a Three-Dimensional Environment

Afra Hadjizadeh, Charles J. Doillon, and Patrick Vermette*



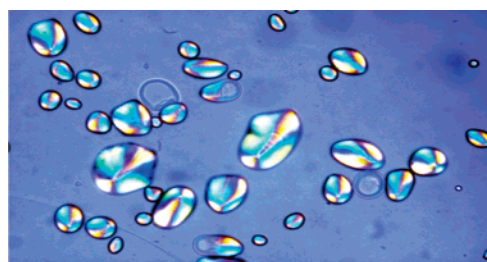
874 Conjugation of Arginine-Glycine-Aspartic Acid Peptides to Poly(ethylene oxide)-*b*-poly(ϵ -caprolactone) Micelles for Enhanced Intracellular Drug Delivery to Metastatic Tumor Cells

Xiao-Bing Xiong, Abdullah Mahmud, Hasan Uludağ, and Afsaneh Lavasanifar*



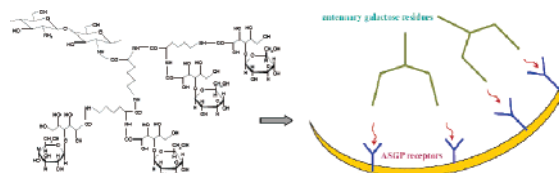
885 A Method for Estimating the Nature and Relative Proportions of Amorphous, Single, and Double-Helical Components in Starch Granules by ^{13}C CP/MAS NMR

Ihwa Tan, Bernadine M. Flanagan, Peter J. Halley, Andrew K. Whittaker, and Michael J. Gidley*



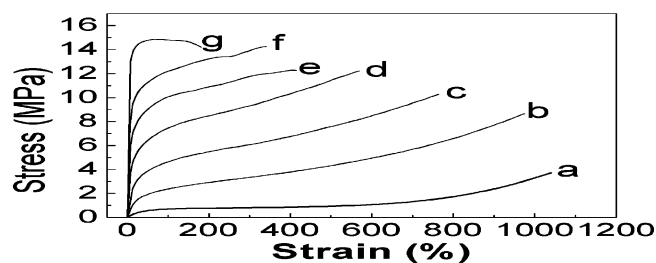
892 Synthesis of a Novel Glycoconjugated Chitosan and Preparation of Its Derived Nanoparticles for Targeting HepG2 Cells

Fwu-Long Mi,* Yong-Yi Wu, Ya-Lin Chiu, Mei-Chin Chen, Hsing-Wen Sung,* Shu-Huei Yu, Shin-Shing Shyu, and Mei-Feng Huang



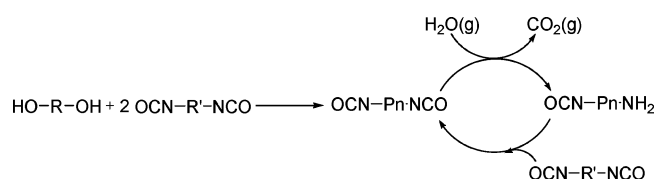
899 New Nanocomposite Materials Reinforced with Flax Cellulose Nanocrystals in Waterborne Polyurethane

Xiaodong Cao, Hua Dong, and Chang Ming Li*



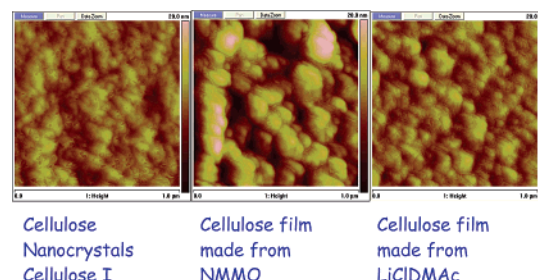
905 Synthesis of Highly Elastic Biodegradable Poly(urethane urea)

J. O. Basse Asplund, Tim Bowden, Torbjörn Mathisen, and Jöns Hilborn*



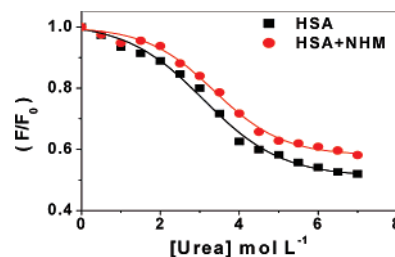
912 Cellulose Thin Films: Degree of Cellulose Ordering and Its Influence on Adhesion

Malin Eriksson, Shannon M. Notley, and Lars Wågberg*



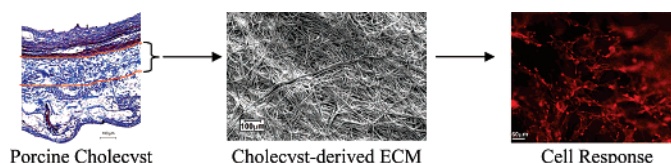
920 Binding Interaction of a Biological Photosensitizer with Serum Albumins: A Biophysical Study

Alok Chakrabarty, Arabinda Mallick, Basudeb Halder, Paramita Das, and Nitin Chattopadhyay*



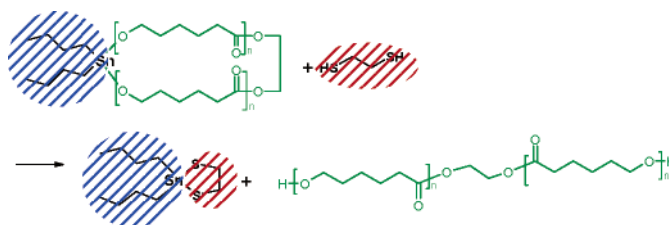
928 Scaffold with a Natural Mesh-like Architecture: Isolation, Structural, and in Vitro Characterization

Krishna Burugapalli, Anilkumar Thapasimuttu, Jeffrey C. Y. Chan, Li Yao, Sarah Brody, Jack L. Kelly, and Abhay Pandit*



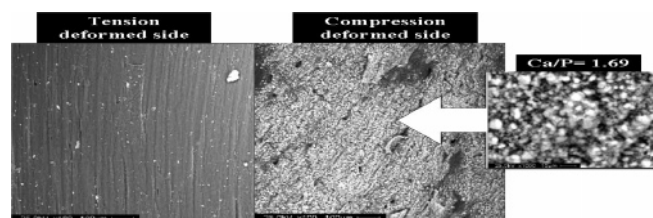
937 Industrial Utilization of Tin-Initiated Resorbable Polymers: Synthesis on a Large Scale with a Low Amount of Initiator Residue

Anna Stjern Dahl, Anna Finne Wistrand, and Ann-Christine Albertsson*



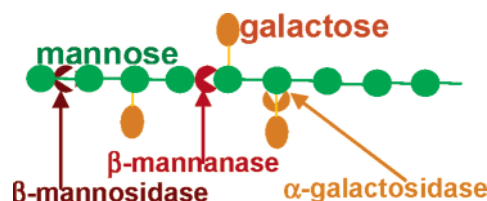
941 In Vitro Deposition of Hydroxyapatite on Cortical Bone Collagen Stimulated by Deformation-Induced Piezoelectricity

Karem Noris-Suárez,* Joaquín Lira-Olivares, Ana Marina Ferreira, José Luis Feijoo, Nery Suárez, María C. Hernández, and Esteban Barrios



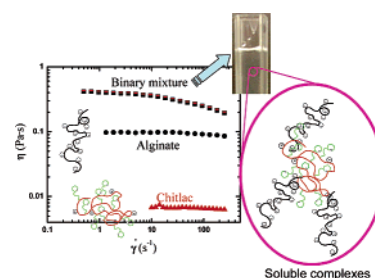
949 Rheological Properties of Guar Galactomannan Solutions during Hydrolysis with Galactomannanase and α -Galactosidase Enzyme Mixtures

Shamsheer Mohammad, Donald A. Comfort, Robert M. Kelly, and Saad A. Khan*



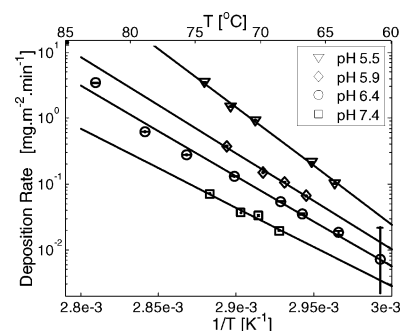
957 Synergistic Effects in Semidilute Mixed Solutions of Alginate and Lactose-Modified Chitosan (Chitlac)

Ivan Donati,* Ingvild J. Haug, Tommaso Scarpa, Massimiliano Borgogna, Kurt I. Draet, Gudmund Skjåk-Bræk, and Sergio Paoletti



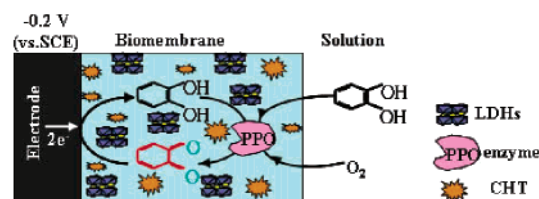
963 Effects of Temperature, pH, and Salt Concentration on β -Lactoglobulin Deposition Kinetics Studied by Optical Waveguide Lightmode Spectroscopy

Marek Krosiak, Jan Sefcik,* and Massimo Morbidelli*



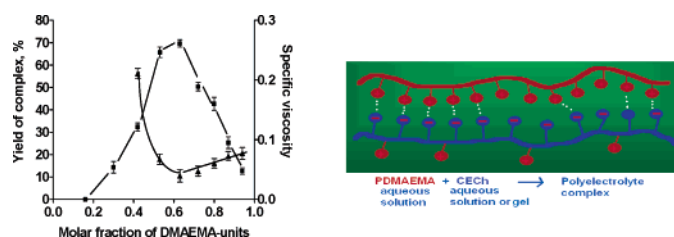
971 Hybrid Material Based on Chitosan and Layered Double Hydroxides: Characterization and Application to the Design of Amperometric Phenol Biosensor

En Han, Dan Shan,* Huaiguo Xue,* and Serge Cosnier



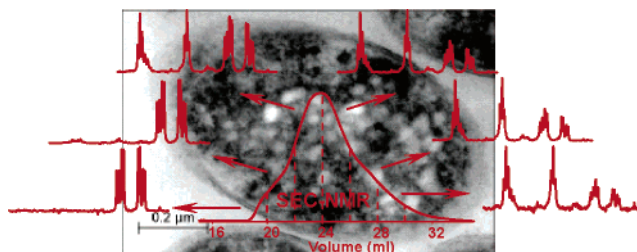
976 Polyelectrolyte Complexes between (Cross-linked) *N*-Carboxyethylchitosan and (Quaternized) Poly[2-(dimethylamino)ethyl methacrylate]: Preparation, Characterization, and Antibacterial Properties

Elena Yancheva, Dilyana Paneva, Vera Maximova, Laetitia Mespouille, Philippe Dubois, Nevena Manolova, and Iliya Rashkov*



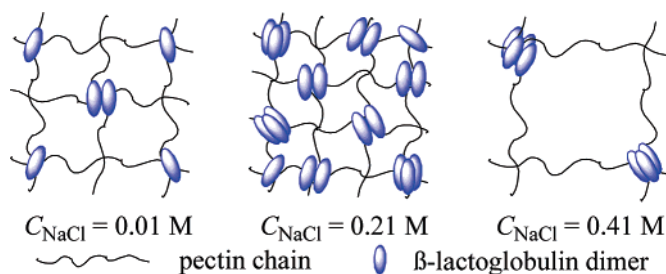
985 Sequencing Microbial Copolymers of 3-Hydroxybutyric and 3-Mercaptoalkanoic Acids by NMR, Electrospray Ionization Mass Spectrometry, and Size Exclusion Chromatography NMR

Giuseppe Impallomeni, Alexander Steinbüchel,* Tina Lütke-Eversloh, Tony Barbuizi, and Alberto Ballistreri*



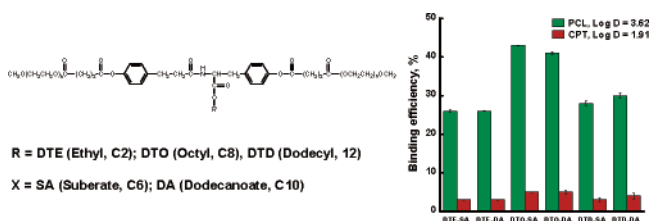
992 Composition and Rheological Properties of β -Lactoglobulin/Pectin Coacervates: Effects of Salt Concentration and Initial Protein/Polysaccharide Ratio

Xiaoyong Wang, Jooyoung Lee, Yu-Wen Wang, and Qingrong Huang*



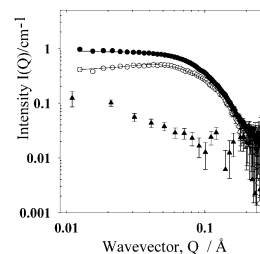
998 Effect of Tyrosine-Derived Triblock Copolymer Compositions on Nanosphere Self-Assembly and Drug Delivery

Larisa Sheihet, Karolina Piotrowska, Robert A. Dubin, Joachim Kohn, and David Devore*

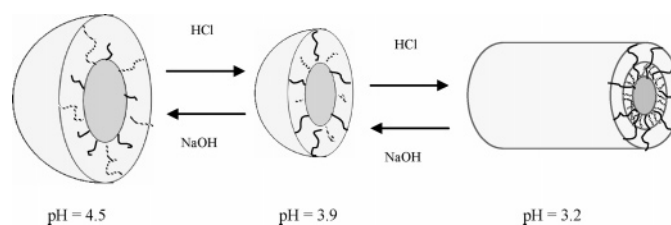


1004 Studies on the Mechanism of Interaction of a Bioresponsive Endosomolytic Polyamidoamine with Interfaces. 1. Micelles as Model Surfaces

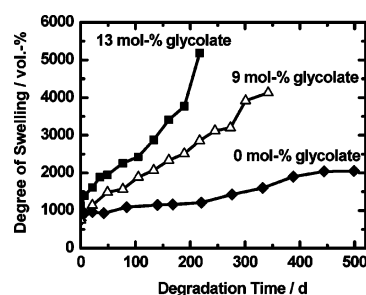
Peter C. Griffiths,* Zeena Khayat, Stephanie Tse, Richard K. Heenan, Stephen M. King, and Ruth Duncan


1013 Self-Assembly of Polypeptide-Containing ABC-Type Triblock Copolymers in Aqueous Solution and Its pH Dependence

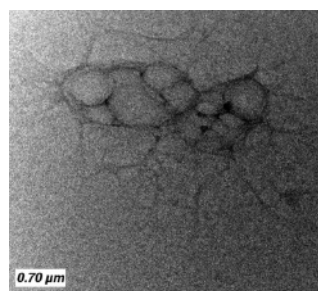
Jing Sun, Chao Deng, Xuesi Chen, Haijun Yu, Huayu Tian, Jingru Sun, and Xiabin Jing*


1018 Shape-Memory Polymer Networks from Oligo[(ϵ -hydroxycaproate)-*co*-glycolate]-dimethacrylates and Butyl Acrylate with Adjustable Hydrolytic Degradation Rate

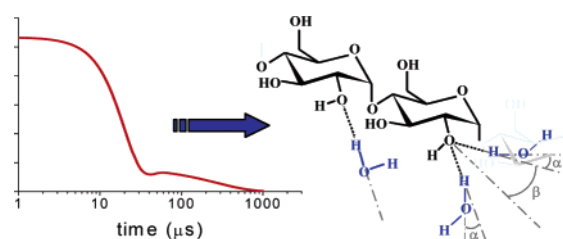
Steffen Kelch, Susi Steuer, Annette M. Schmidt, and Andreas Lendlein*


1028 Synthesis and Characterization of Cationic Micelles Self-Assembled from a Biodegradable Copolymer for Gene Delivery

Yong Wang, Li-Shan Wang, Suat-Hong Goh, and Yi-Yan Yang*

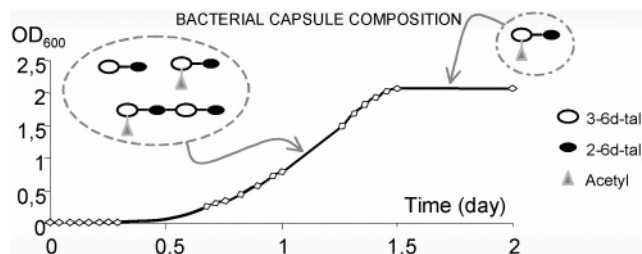

1038 Using Low-Field NMR To Infer the Physical Properties of Glassy Oligosaccharide/Water Mixtures

Kasia Aeberhardt, Quang D. Bui, and Valéry Normand*



1047 *Agrobacterium rubi*^T DSM 6772 Produces a Lipophilic Polysaccharide Capsule whose Degree of Acetylation is Growth Modulated

Cristina De Castro,* Valentina Gargiulo,
Rosa Lanzetta, and Michelangelo Parrilli



Additions & Corrections

1052 Designer Protein-Based Performance Materials

Manoj Kumar,* Karl J. Sanford, William A. Cuevas, Mai Du, Katharine D. Collier, and Nicole Chow

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