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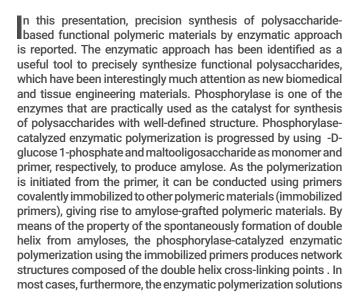
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## PRECISION ENZYMATIC SYNTHESIS OF POLYSACCHARIDE-BASED FUNCTIONAL MATERIALS

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turns into hydrogels. For example, the phosphorylase-catalyzed enzymatic polymerization using maltooligosaccharide-grafted chitin nanofibers produced amylose-grafted chitin nanofiber hydrogels. Moreover, microstructures, which were hierarchically constructed by lyophilization of the hydrogels, were changed from network to porous morphologies depending on the molecular weights of amylose graft chains.

## **Biography**

Jun Ichi Kadokawa received his PhD Degree in 1992. He then joined Yamagata University as a research associate. From 1996 to 1997, he worked as a Visiting Scientist at the Max-Planck-Institute for Polymer Research in Germany. In 1999, he became an associate professor at Yamagata University and moved to Tohoku University in 2002. He was appointed as a Professor of Kagoshima University in 2004. His research interests focuses on polysaccharide materials. He received the Award for encouragement of research in polymer science (1997) and the cellulose society of Japan award (2009). He has published more than 200 papers in academic journals.

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