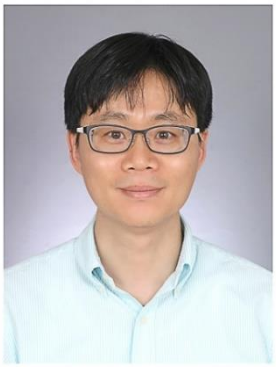
Frontier Chemistry Center
フロンティア化学教育研究センター

講演会

演 題：**Empowering Inert Polyethers: Synthesis and Biological Applications of Stimuli-Responsive Polyglycerols**



講 師：**Assoc. Prof. Byeong-Su Kim**
Department of Chemistry,
Ulsan National Institute of Science and Technology (UNIST),
Korea

日 時：2017 年 1 月 20 日（金）16:30~17:30

場 所：工学部材料・化学棟大会議室（MC526）

主 催：高分子化学研究室

共 催：高分子学会北海道支部

要 旨：

Poly(ethylene glycol) (PEG) is by far the most well-known synthetic biocompatible polymer for its widespread use in the food, cosmetics, and biomedical applications. However, its limited functionality combined with its challenging synthetic nature often poses challenges for advanced material design and synthesis. Recently, polyglycerols and their derivatives are emerging as alternatives for next-generation biocompatible polymers with controlled functionalities and architectures. The present talk will cover the design and the synthesis of well-defined stimuli-responsive polyglycerols such as pH-, light-, and redox-stimuli for biocompatible and biodegradable smart drug delivery systems. Furthermore, our recent effort in the development of novel functional epoxide monomers with multifunctionality will be highlighted.

本講演は、大学院総合化学院『化学研究先端講義（修士課程選択科目）／総合化学特別研究第二（博士後期課程選択科目）』の一部として認定されています。

連絡先：工学研究院応用化学部門　佐藤　敏文（内線：6602）

フロンティア化学教育研究センター