平成２２年度大学間協定校交流事業
［グローバル COE 物質科学イノベーション講演会］

演 題：**Chiral Teleinduction in Radical Polymerization of Bulky Styrenic Monomers**

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場 所：工学部材料・化学棟　MC208 講義室

共 催：高分子学会北海道支部

要旨：

Synthetic helical polymers have been the topic of intense study in recent years due to not only their wide practical and potential applications, but also being favorable models to mimic the elegance and complexity of biomacromolecules. Optically active helical vinyl polymers distinguish their counterparts by outstanding chemical and physical stability of carbon-carbon main chain. Most synthetic helical polymers are obtained via ionic or coordination polymerization. Our research focuses on preparation of optically active helical vinyl polymers, especially those of styrene derivatives, through radical polymerization. In this presentation, I'll introduce the synthesis and chiroptical properties of helical vinyl polymers bearing *p*-terphenyl- or biphenyl-based pendants. Delicate molecular design has been made to understand the long range chirality transfer during radical polymerization and stereomutation of polymers.

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