



演題：**Dynamic light scattering from polymer solutions and colloidal suspensions**

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要旨：

To date, numerous studies have been focused on the self-assembly of petroleum-based block copolymers (BCPs) for potential applications in multidisciplinary fields, such as nanoparticles for drug delivery, etc. Such materials are derived from fossil resources that are being rapidly depleted and have negative environmental impacts. In contrast, carbohydrates constitute a sustainable source of materials that have attracted a growing interest due to their “green” aspects, biocompatibility, biodegradability, and bio-recognition properties. This is currently attracting much interest in various sectors and their industrial applications at the nanoscale level will have to expand quickly in response to the transition to a bio-based economy. This talk will focus on the design and the nanofabrication of functional materials based on novel oligosaccharide-based block copolymers (glycopolymers) leading to new functionalized glyco-nanoparticles for encapsulation and energy devices. These new biomaterials, produced with environmentally friendly techniques, develop economically valuable uses for biomass and, at the same time, address important socio-economic problems. This is a real challenge, strongly motivated by the potentials offered by mimicking Nature and by exploiting, at the nanoscale level, the potential of carbohydrate-based materials towards the developments of novel nanoparticles not expected in shape and applications.

出席確認方法：

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主催：北海道大学大学院総合化学院，フロンティア化学教育研究センター

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