

INVITATION TO LECTURES

## **Biocolour**

and

## **Studies on Functional Dyeing and Finishing by Using Biobased Materials**

We cordially invite you to attend two lectures given by Professor Hidekazu Yasunaga from Kyoto Institute of Technology, Japan. The topic of these lectures is issues related to the production and use of biobased dyes and biological materials for advanced textile finishing. Biobased dyes or bio-based dyes are dyes that are derived from biological sources. These dyes can be divided into three main classes: natural dyes, brown dyes and additives. There are various microbial sources of biolouring agents, such as the production of carotene by a pigmented strain of *Bacillus* sp., or the carotenoid astaxanthin produced by the yeast *Phaffia rhodoxyma*, which are considered to be important sources of natural colouring agents for food colouring. Biolourants as additives can be used in various industries, e.g. pharmaceutical industry, textile industry, dairy industry, etc. Various technological constraints are known to be a major obstacle to the commercial use of microbes for the production of biolourants, as well as generally lower stability compared to conventional synthetic dyes. Therefore, these problems and pathways towards greener options for dye production will be addressed in both lectures.

WHEN: Monday, March 18, 2024 at 10:40 a.m. and 12:30 p.m.

WHERE: Classroom ZU5 (ground floor of building D)

