

# Realization of a low carbon society through game changing technologies

## Selective production of aromatic compounds from lignin

**Project Leader :** Tomonori SONOKI

Associate Professor, Faculty of Agriculture and Life Science, Hirosaki University



**R&D Team :** Nagaoka University of Technology, Hokkaido University, Tokyo University of Agriculture and Technology

### Summary :

The purpose of this R&D project is to develop a game changing technology to produce aromatic platform chemicals available for polymer syntheses from the natural and heterogeneous aromatic polymer, Lignin. Lignin has been attracted to be a renewable source of aromatic compounds that substitute for the petroleum-based aromatic materials, however, its heterogeneous structure generates variety of aromatic compounds via the current depolymerization methods and such heterogeneous mixture of aromatics is a major obstacle to developing lignin application in industry. In this project, we aim at developing a method for the selective aromatics production corresponding the heterogeneity of lignin through the cooperation of chemical decomposition and biological funneling approaches.

