SADAMOTO, Reiko

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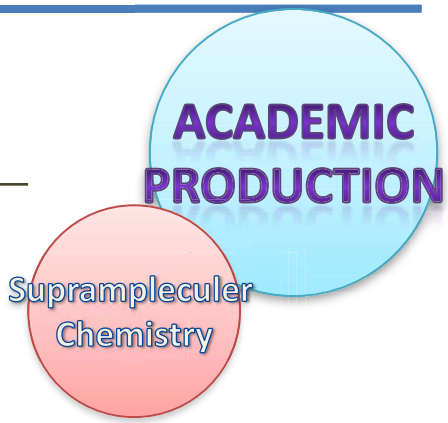


■ **Researcher information**

Contact

Email: sadamoto.reiko @ocha.ac.jp ／TEL: 03-5978-5056 ／FAX03-5978-2581

Major

Supramplecular chemistry

■ **Research topics**

Chemical Engineering of Bacteria through Cell-Wall Biosynthesis

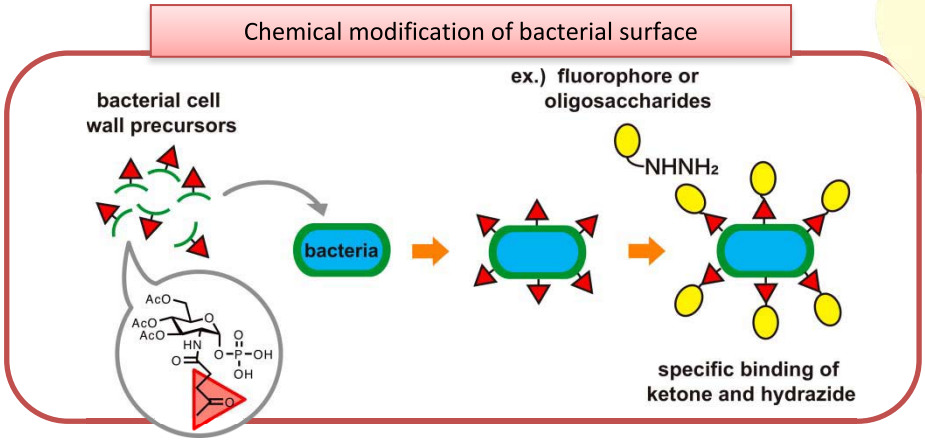
Keywords

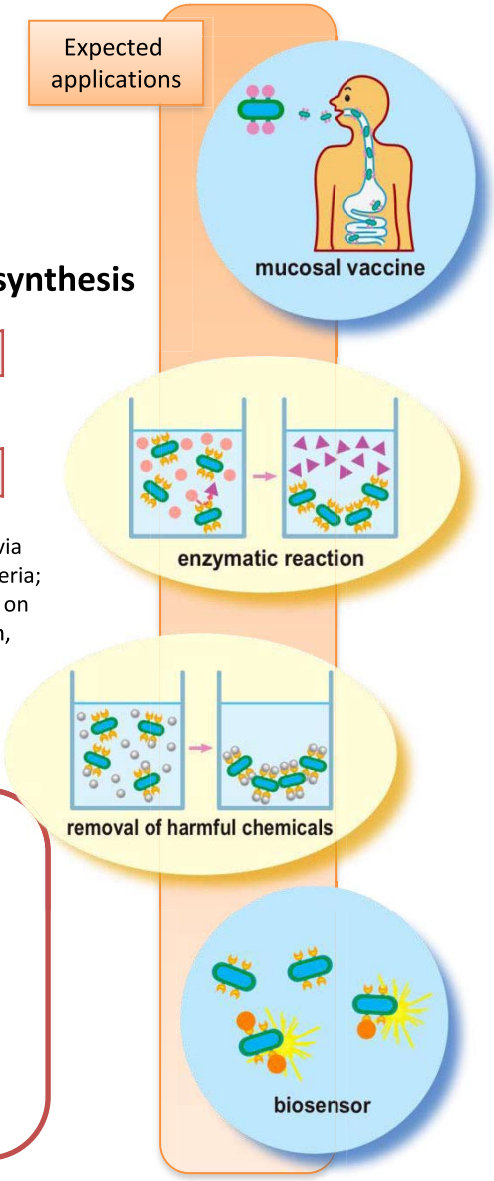
Chemical biology, Biomimetic chemistry, Cell-surface engineering

Contents

■ Overview (background, goal, detail)

Our recent research has focused on the chemical modification of the bacterial cell wall via the biosynthetic route with possible applications to the development of functional bacteria; for example, bacteria that can bemodified chemically to display artificial sugar moieties on the surface, thus affording unique adhesion properties.Based on this chemical approach, which differs from simple genetic modification, new technological innovations can be expected.





Potential of social/industrial contribution

■ Joint research/ licensing / technical consulting / knowledge sharing (open courses, workshops, publications)