



Microbes With Reduced Adhesion Characteristics

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The Invention

This invention from UW Madison researchers presents recombinant microorganisms and methods of using same. The recombinant microorganisms include one or more modifications that reduce the expression and/or activity of a sortase, a sortase-dependent protein, a fibronectin-binding protein, an autolysin, a surface-layer protein, an aggregation-promoting factor, and/or a collagen-binding protein. The modifications can reduce the adhesion characteristics with respect to the non-modified microbes. The recombinant microorganisms can further include a recombinant gene configured to express a biologic. The recombinant microorganisms can be used as delivery vehicles to deliver the biologics to sites such as the gastrointestinal tract.

Key Benefits

- Novel microbial delivery system
- Prevents any potential colonization of GI
- Allows for tuning of biocontainment

Additional Information

For More Information About the Inventors

- [Jan Peter Van Pijkeren](#)

Tech Fields

- [Drug Delivery : Other drug delivery technologies](#)

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847