

## Scientists identify potential vaccine target for increasingly concerning bacterial strain



Graphical abstract. Credit: *Angewandte Chemie International Edition* (2022). DOI: 10.1002/anie.202209556



Acinetobacter baumannii is a bacterial pathogen responsible for serious hospital-related infections that is becoming increasingly resistant against antibiotics. In research published in *Angewandte Chemie*, investigators conducted screening tests and identified a promising bacterial target for the development of a vaccine.

"Capsular polysaccharides [or carbohydrates] that cover A. baumannii are a major virulence factor that play an important role in pathogenesis, are used to assign serotypes and provide the basis for vaccine development," the authors wrote. The team created and screened synthetic carbohydrates resembling the capsular polysaccharides of A. baumannii and identified a likely candidate.

The work will now advance to A. baumannii challenge studies in a mouse model.

**More information:** Julinton Sianturi et al, Semi-Synthetic Glycoconjugate Vaccine Lead Against Acinetobacter baumannii 17978, *Angewandte Chemie International Edition* (2022). DOI: 10.1002/anie.202209556

Provided by Wiley

Citation: Scientists identify potential vaccine target for increasingly concerning bacterial strain (2022, September 19) retrieved 27 April 2024 from <u>https://phys.org/news/2022-09-scientists-potential-vaccine-increasingly-bacterial.html</u>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.