

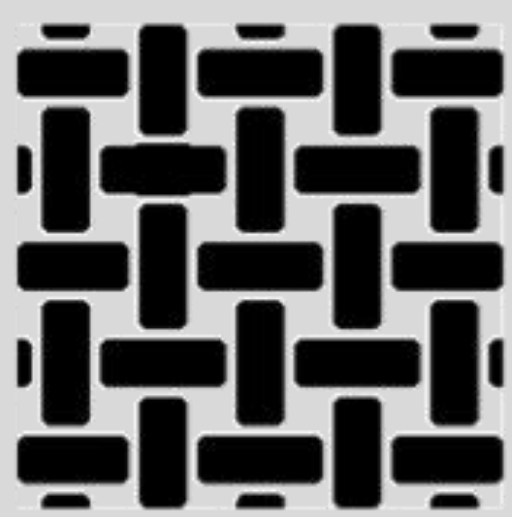
BIOCOAT: BIO-BASED TEXTILE FINISHES

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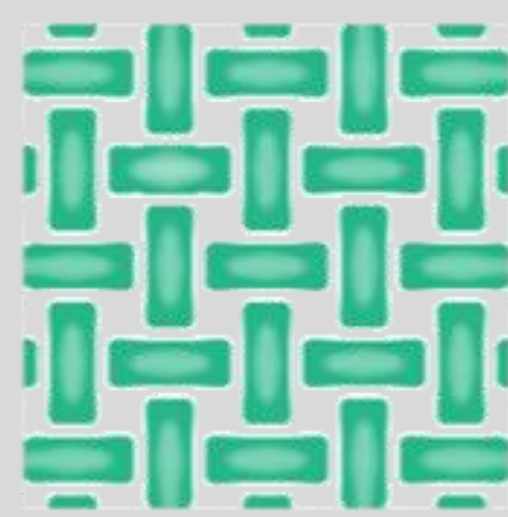
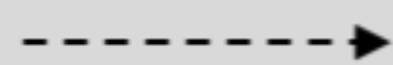
¹DWI - LEIBNIZ-INSTITUTE FOR INTERACTIVE MATERIALS, ²FROHN GMBH, ³ADIDAS AG

Objective

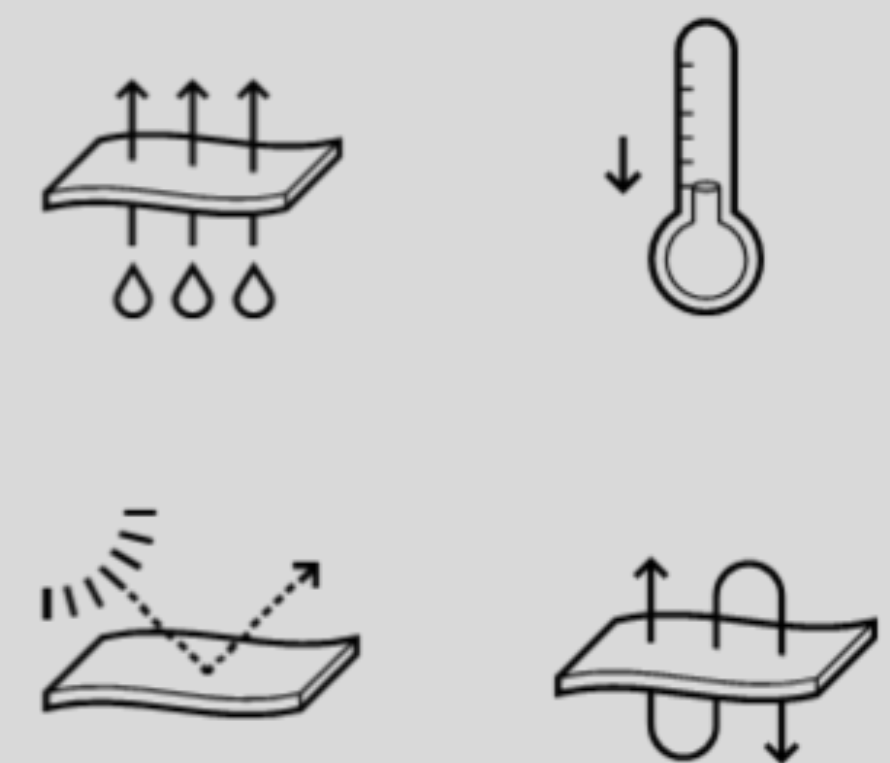
Lab scale proof of concept textile coating based on peptides.
Aiming for antimicrobial and hydrophilic functionalization.



Bio-textile



Bio-textile + coating



Added functionality

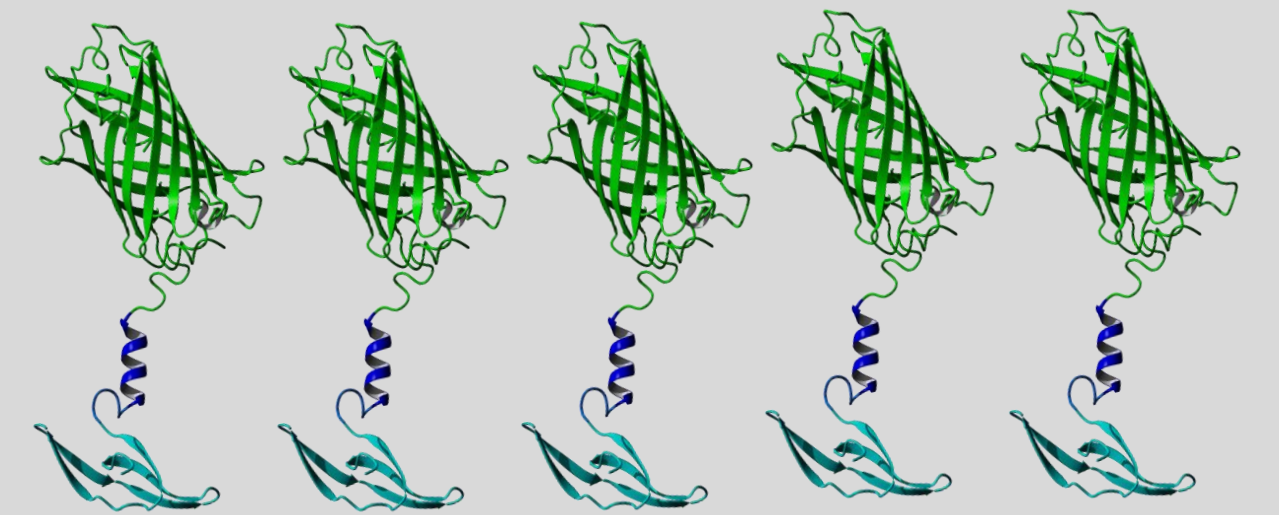
Platform Technology

Functionality

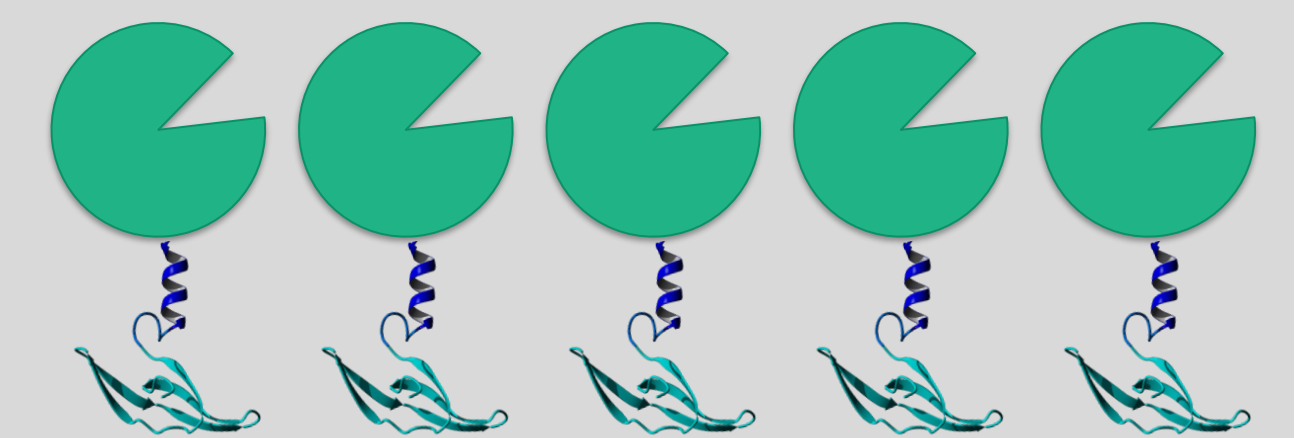
Antimicrobial enzymes

Supercharged polypeptides

Green fluorescence



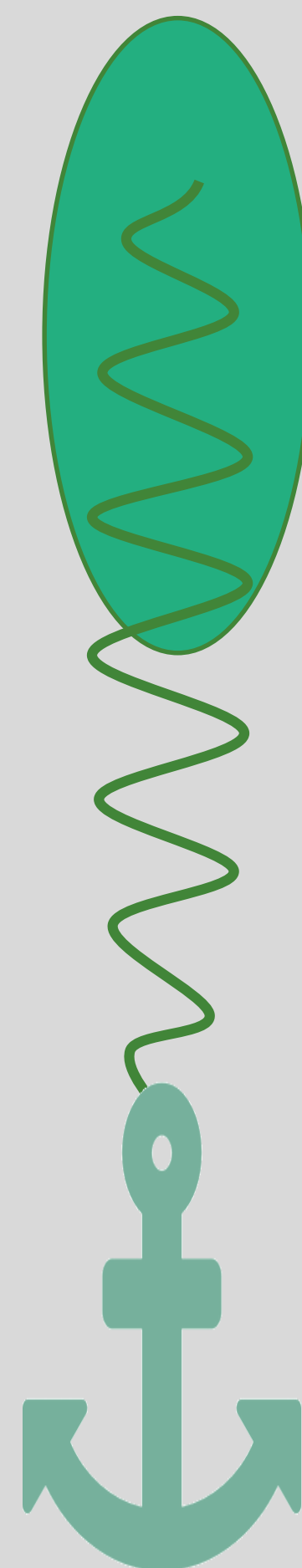
Antimicrobial



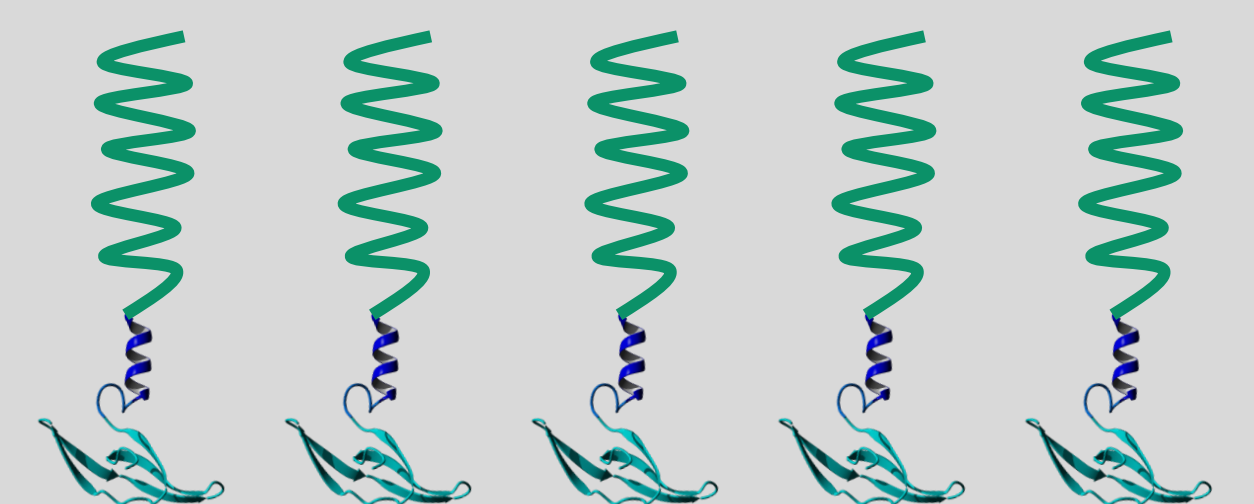
Adhesion promoter

Anchor peptides

Material binding peptides



Hydrophilic



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