

Bacterial adhesion on a newly designed soap film

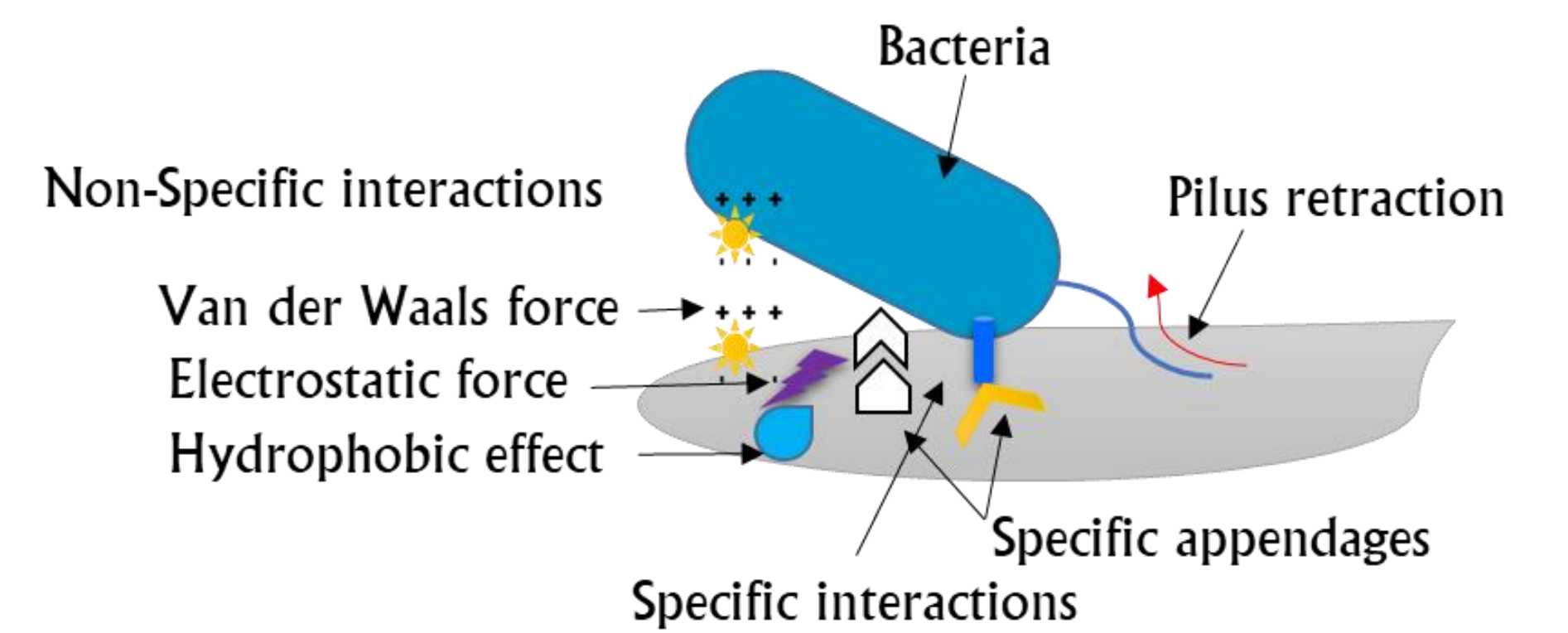
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Introduction

Bacteria are versatile and dynamic beings that adjust instantly to surrounding environmental signals. The search for understanding the mechanisms of bacteria adhesion to different materials can bring new perspective of research, especially in developing new protonic devices targeting biomimetic solution. It is known that bacteria promote adhesion through its very complex membrane structure made by a diversity of proteins, carbohydrates, lipids which could bind on various surfaces and be involved in intercellular interactions as well as in signal transduction from outside cells to inside cells.

Thus, we target to test bacterial adhesion to newly designed and synthesized surfactant compounds by exploiting unique properties of soap films.



Bacteria proposed adhesion mechanisms (adapted from Kreve & Reis, 2021)

Materials and Methods

