

# Interaction of Phytocompounds from Garlic Peel with Foodborne Pathogens: An *In-silico* Approach <sup>†</sup>

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**Abstract:** The food industries are one of the leading sectors in India. The food industries include agriculture, manufacturing, food processing, marketing, etc. The presence of food-borne pathogens even after complete sterilization is a major threat. Nanotechnology is one of the emerging fields which provide an alternative solution to the current problems faced by the food industries. The incrementing scope of pathogenic resistance to antibiotics has encouraged the search for nanoparticles with antimicrobial activity. The main objective of the current work is to analyze the antimicrobial activity of *Allium sativum* (Garlic) against food-borne pathogenic bacteria using the Molecular Docking Approach. This is an *in-silico* way of determining the antimicrobial mechanism of *Allium sativum* against common food-borne bacteria, which had a promising impact on food safety, security, and control.

**Keywords:** *Allium sativum*; antimicrobial mechanism; food-borne pathogens.

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## Conflicts of Interest

The authors declare no conflict of interest.