

## Investigation And Development Of Anti Polymicrobial Biofilm From Several Essential Oils: A Review

<b>Publons ID</b>	(not set)
<b>Wos ID</b>	WOS:000828471200043
<b>Doi</b>	10.33263/BRIAC132.103
<b>Title</b>	Investigation And Development Of Anti Polymicrobial Biofilm From Several Essential Oils: A Review
<b>First Author</b>	
<b>Last Author</b>	
<b>Authors</b>	Hamzah, H; Nabilah, TU; Yudhawan, I; Siregar, KAA; Sammulia, SF; Fitriani;
<b>Publish Date</b>	APR 15 2023
<b>Journal Name</b>	BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY
<b>Citation</b>	1
<b>Abstract</b>	<p>A biofilm is a group of microbes covered with extracellular polymeric substances (EPS) matrix and attached irreversibly to any surface. Biofilm can protect microbe, so microbe could resist the antimicrobial agent and spare from the host immune system. The development of biofilm could be spurred with the occurrence of serum and saliva. Biofilm developed along with increasing clinical infection, so that biofilm also acts as virulence and resistance factors. Furthermore, there are changes in phenotype such as growth rate and gene transcription change in free cell and planktonic cells. Biofilm is involved in many contagious diseases and resistance to various drugs, so it is essential to search and discover a new antibiofilm agent that could inhibit and eradicate biofilm formation. Some discovery a few years ago found that compound from the natural product has chemopreventive and antimicrobial activity in the modulation of biofilm formation. This review summarizes several current research studies related to infection of polymicrobial biofilm and searches for natural polymicrobial antibiofilm with a precise mechanism. The current antibiofilm agents listed here are promising candidates and could give a new approach to managing the infectious disease with polymicrobial biofilm.</p>
<b>Publish Type</b>	Journal
<b>Publish Year</b>	2023
<b>Page Begin</b>	(not set)
<b>Page End</b>	(not set)
<b>Issn</b>	2069-5837
<b>Eissn</b>	
<b>Url</b>	<a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000828471200043">https://www.webofscience.com/wos/woscc/full-record/WOS:000828471200043</a>
<b>Author</b>	apt. INDRA YUDHAWAN, S.Farm, M.Pharm.Sci.