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## [Pathogens] Manuscript ID: pathogens-1088803 - Submission Received

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**Editorial Office** <pathogens@mdpi.com>

Reply-To: pathogens@mdpi.com

To: Firzan Nainu <firzannainu@unhas.ac.id>

Cc: Sartini Sartini <sardj@farmasi.unhas.ac.id>, Andi Dian Permana <andi.dian.permana@farmasi.unhas.ac.id>, Saikat Mitra <saikatmitradu@gmail.com>, Abu Montakim Tareq <montakim0.abu@gmail.com>, Emil Salim <emilsalim@usu.ac.id>, Islamudin Ahmad <islamudinahmad@farmasi.unmul.ac.id>, Harapan Harapan <harapan@unsyiah.ac.id>, Talha Bin Emran <talhabmb@bgctub.ac.bd>

Sun, Jan 10, 2021 at 10:58 AM

Dear Dr. Nainu,

Thank you very much for uploading the following manuscript to the MDPI submission system. One of our editors will be in touch with you soon.

Journal name: Pathogens

Manuscript ID: pathogens-1088803

Type of manuscript: Review

Title: Current State and Promising Opportunities on Pharmaceutical Approaches in the Treatment of Polymicrobial Diseases

Authors: Sartini Sartini, Andi Dian Permana, Saikat Mitra, Abu Montakim Tareq, Emil Salim, Islamudin Ahmad, Harapan Harapan, Talha Bin Emran, Firzan Nainu \*

Received: 10 January 2021

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Submitted to section: Human Pathogens,

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Microbial Interactions during Infection

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## [Pathogens] Manuscript ID: pathogens-1088803 - Major Revisions

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Pathogens Editorial Office <pathogens@mdpi.com>

Mon, Jan 25, 2021 at 10:09 PM

Reply-To: Amy Luo <amy.luo@mdpi.com>, Pathogens Editorial Office <pathogens@mdpi.com>

To: Firzan Nainu <firzannainu@unhas.ac.id>

Cc: Sartini Sartini <sardj@farmasi.unhas.ac.id>, Andi Dian Permana <andi.dian.permana@farmasi.unhas.ac.id>, Saikat Mitra <saikat-2018926336@pharmacy.du.ac.bd>, Abu Montakim Tareq <abu.muntakim@dbl.org>, Emil Salim <emilsalim@usu.ac.id>, Islamudin Ahmad <islamudinahmad@farmasi.unmul.ac.id>, Harapan Harapan <harapan@unsyiah.ac.id>, Talha Bin Emran <talhabmb@bgctub.ac.bd>, Pathogens Editorial Office <pathogens@mdpi.com>, Amy Luo <amy.luo@mdpi.com>

Dear Dr. Nainu,

Thank you for submitting the following manuscript to Pathogens:

Manuscript ID: pathogens-1088803

Type of manuscript: Review

Title: Current State and Promising Opportunities on Pharmaceutical Approaches in the Treatment of Polymicrobial Diseases

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Received: 10 January 2021

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Microbial Interactions during Infection

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It has been reviewed by experts in the field and we request that you make major revisions before it is processed further. Please find your manuscript and the review reports at the following link:

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Please kindly note that the third review report might be provided in the next few days. You may prepare the revision according to the current two reports firstly. We will keep you well informed.

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**Important Re: [Pathogens] Manuscript ID: pathogens-1088803 - APC Invoice**

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**Amy.Luo** <amy.luo@mdpi.com>  
To: Firzan Nainu <firzannainu@unhas.ac.id>  
Cc: Pathogens Editorial Office <pathogens@mdpi.com>

Thu, Feb 18, 2021 at 11:34 AM

Dear Dr. Nainu,

Congratulations on the acceptance for publication. We will now make the final preparations for the publication and return it to you for your approval soon. At the same time, an invoice will be sent to you. As for the payment, we want to know your payment plan. If possible, would you please let us know if you need a long time to complete the payment? Thanks for your cooperation.

If you have any questions or comments, please do not hesitate to contact us. We are looking forward to hearing from you.

Kind regards,  
Amy Luo  
Assistant Editor

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On 2021/2/18 11:24, MDPI Billing wrote:

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## Article Information Overview

Manuscript ID	<b>pathogens-1088803</b>
Status	Website online
DOI	10.3390/pathogens10020245
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Article type	Review
Title	Current State and Promising Opportunities on Pharmaceutical Approaches in the Treatment of Polymicrobial Diseases
Journal	<i>Pathogens</i>
Volume	10
Issue	2
Special Issue	<a href="#">Microbial Interactions during Infection</a>
Abstract	<p>In recent years, the emergence of newly identified acute and chronic infectious disorders caused by diverse combinations of pathogens, termed polymicrobial diseases, has had catastrophic consequences for humans. Antimicrobial agents have been clinically proven to be effective in the pharmacological treatment of polymicrobial diseases. Unfortunately, an increasing trend in the emergence of multi-drug-resistant pathogens and limited options for delivery of antimicrobial drugs might seriously impact humans' efforts to combat polymicrobial diseases in the coming decades. New antimicrobial agents with novel mechanism(s) of action and new pharmaceutical formulations or delivery systems to target infected sites are urgently required. In this review, we discuss the prospective use of novel antimicrobial compounds isolated from natural products to treat polymicrobial infections, mainly via mechanisms related to inhibition of biofilm formation. Drug-delivery systems developed to deliver antimicrobial compounds to both intracellular and extracellular pathogens are discussed. We further discuss the effectiveness of several biofilm-targeted delivery strategies to eliminate polymicrobial biofilms. At the end, we review the applications and promising opportunities for various drug-delivery systems, when compared to conventional antimicrobial therapy, as a pharmacological means to treat polymicrobial diseases.</p>
Keywords	polymicrobial diseases; biofilms; antimicrobials; natural products; pharmacological approach; drug delivery system

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