

**THESIS**

**ANTIOXIDATIVE AND ANTIBACTERIAL ACTIVITY OF *Spirulina platensis*, *Moringa oleifera* AND THEIR SYNERGIES**



**BY**

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**FISHERIES AND MARINE BIOTECHNOLOGY  
MASTER PROGRAMME  
FACULTY OF FISHERIES AND MARINE  
UNIVERSITAS AIRLANGGA  
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In Partial Fulfilment for the Requirements for the Award of  
Masters of Fisheries and Marine Biotechnology

Faculty of Fisheries and Marine, Universitas Airlangga

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Thesis as one of the Requirements for Master of Science in Fisheries and Marine  
Biotechnology Programme of Faculty of Fisheries and Marine, Universitas  
Airlangga

Approved by  
Supervisory Team

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Surabaya, 01 June 2020  
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The author hereby states that to the best of his knowledge this thesis with the above topic has no been partly or fully studied for an academic degree in any programme and no other University or individual has published the same work apart from the author with exception of the cited literatures.

If proven that the author's statement herein is incorrect, the writer is available for a corresponding sanction as applied at Universitas Airlangga. Through this statement, I declare that I have written this declaration without compulsion from anyone and that this is valid under legal circumstance.

Surabaya, 22<sup>nd</sup> May, 2020  
Declarant,



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Surabaya, 22<sup>nd</sup> May, 2020  
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## **DEDICATION**

The author dedicates this thesis to God Almighty and his late parents Mr. and Mrs. Azenda Emmanuel Nege who laid a solid educational foundation for him. The thesis is equally dedicated to Mama Nengen Tarkumbur Nege who passed unto glory on the 10<sup>th</sup> of February 2019 and Baba Chief Julius Iorhemba Nege (JP.) who passed away on the 2<sup>nd</sup> of May 2020 on the same day this work was first submitted in request for examination date. The work was rounded up in such an atmosphere, but to God alone be the Glory!