

DISSERTATION

**SYNTHESIS OF GRAPHENE-BASED MATERIALS MODIFIED WITH
GOLD NANOPARTICLES, ZINC OXIDE, AND NICLOSAMIDE:
SYNTHESIS AND EVALUATION OF ANTIOXIDANT,
ANTIBACTERIAL, CYTOTOXIC, AND ANTIVIRAL ACTIVITIES
AGAINST DENGUE VIRUS SEROTYPE 3 (DENV-3)**



**Dissertation to obtain
the degree of Doctor in Chemistry
at Universitas Gadjah Mada**

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**DOCTORAL PROGRAM IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
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UNIVERSITAS GADJAH MADA
YOGYAKARTA
2025**

DISSERTATION MANUSCRIPT


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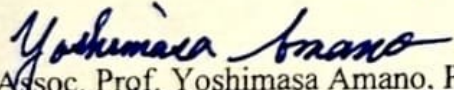
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Aproved by Board of Examiners Doctoral Program in Chemistry
Faculty of Mathematics and Natural Sciences
Universitas Gadjah Mada
On November 24th 2025

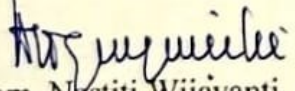
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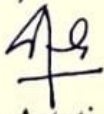

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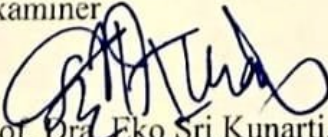

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