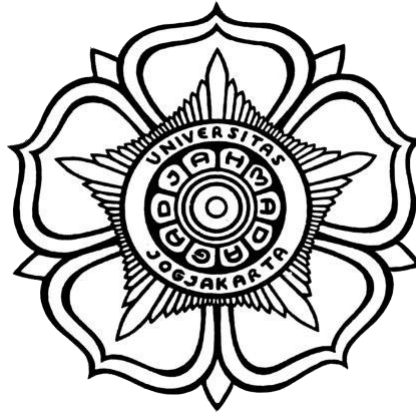


**MICROSENSING TECHNOLOGY: APPLICATION OF JANUS
PARTICLES FOR ORAL CANCER BIOMARKER
DETECTION IN EXOSOMES**

Thesis

Presented as Partial Fulfilment for the Requirement to obtain a Master Degree

in Master of Biomedical Engineering Study Program



Submitted by

Fitri Nur Laily

23/515770/PMU/11507

**THE GRADUATE SCHOOL
UNIVERSITAS GADJAH MADA
YOGYAKARTA
2025**



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Microsensing Technology: Application of Janus Particles for Oral Cancer Biomarker Detection in Exosomes

Fitri Nur Laily, drg. Aryan Morita, M.Sc., Ph.D.; Professor Han-Sheng Chuang, Ph.D.

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THESIS

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