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TESIS

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**PENGARUH SENTRIFUGASI
SPERMATOZOA SAPI TERHADAP INTEGRITAS
MEMBRAN, RESISTENSI DAN KELAYAKAN KONDISI
PADA PROSES KAPASITASI *IN VITRO***

PENELITIAN EKSPERIMENTAL LABORATORIK



OLEH : TRILAS SARDJITO

**PROGRAM PASCASARJANA
UNIVERSITAS AIRLANGGA
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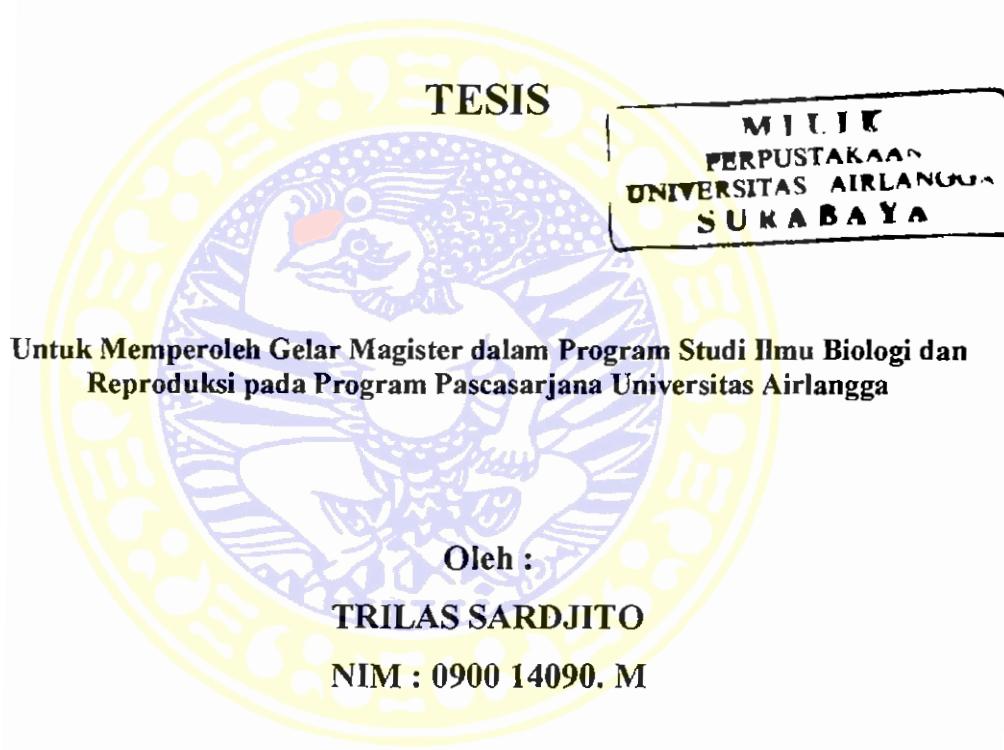


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Untuk Memperoleh Gelar Magister dalam Program Studi Ilmu Biologi dan
Reproduksi pada Program Pascasarjana Universitas Airlangga

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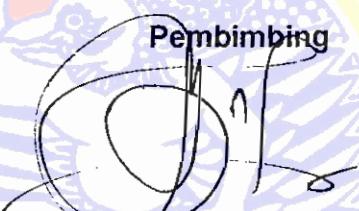
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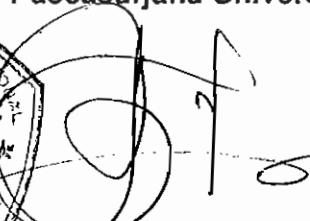

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Program Pascasarjana Universitas Airlangga




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ABSTRACT

THE INFLUENCE OF CENTRIFUGATION CATTLE SPERMATOZOA ON MEMBRAN INTEGRITY, RESISTANCE AND CONDITION FOR *IN VITRO* CAPACITATION

The study was aimed to determine the influence of centrifugation cattle spermatozoa on membrane integrity, resistancy and condition for in vitro capacitation. Seven bulls of Simental breed were used for these research and divided by four groups. P0 as the control and the three others as objective group such as P1(112 G), P2(447 G) and P3(1006 G). Each group was added medium BO Caffeine.,then all treatment groups were centrifugated for 15 minutes. This washing process was done three times. The pellet was incubated in incubator of CO₂ for 60 minutes. Membran integrity, resistance and decenty condition involving the total life and abnormalitas was examined.

The obtained data were tested statistically by Anova and if the real difference than it will be continued with the Tukey test.

The result showed that the higher centrifugated force resulting in the lower of membrane integrity, the resistancy, the progressive movement and total life declined, but the abnormalities of spermatozoa increased.

It means that centrifugation with the high force decreased the quality of spermatozoa.

Key words : Centrifugation; Spermatozoa; Membrane integrity;Resistance; and Invitro Capacitation.