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- Jumlah Penulis : 2 orang
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 - c. Volume, nomor, bulan tahun: Vol. 43(4):405-411, Desember 2018
 - d. Penerbit : Fak. Peternakan dan Pertanian Undip
 - e. DOI artikel (jika ada) : <https://doi.org/10.14710/jitaa.43.4.405-411>
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Semarang, November 2019

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NIP 19590813 198603 1 002

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Abstract

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The aim of this study was to determine the influence of pre-freezing different procedures to the quality of Ettawa Grade goat frozen semen-sexing. The research material was semen sexing consisted of 2 layers those were top layer and bottom layer. The quality of frozen semen sexing was observed by comparing the pre-freezing technique (factory standard operating procedure: FSOP) according to the Artificial Insemination Center operating procedure (pre-freezing by placing the straw of semen for about 4 cm above liquid nitrogen for 9 minutes) with the modification procedure (MP), pre-freezing by placing the straw of semen 16 cm above liquid nitrogen for 9 minutes and then it was lowered to 4 cm above liquid nitrogen for 9 minutes during the pre-freezing phase. The parameters observed were motility, progressive motility, hyperactivation, and sperm linearity. Data were analyzed using Student's t-test. The results of this study indicated that the quality of sexed-semen in the standard operating procedures of frozen semen compared to the treatment of modifications to the top and bottom layers were motility at the top layer ($46.06 \pm 7.52\%$ vs $55.6 \pm 7.78\%$) and bottom layer ($36.82 \pm 6.49\%$ vs. $41.47 \pm 6.57\%$); progressive top layer (16.34 ± 4.27 vs. $32.83 \pm 5.9\%$) and bottom layer ($15.97 \pm 2.72\%$ vs. $19.79 \pm 3.97\%$); hyperactivity in the top layer ($0.81 \pm 0.6\%$ vs $4.09 \pm 1.98\%$) and the bottom layer ($0.71 \pm 0.68\%$ vs. $1.50 \pm 1.05\%$); linearity consisted of linear and non-linear, the top layer (12.19 ± 2.94 vs. $20.52 \pm 3.97\%$) and bottom layer (12.32 ± 2.63 vs 14.70 ± 2.6); while non-linear in top layer (0.14 ± 0.2 vs $0.68 \pm 0.85\%$) and bottom layer ($0.4 \pm 0.13\%$ vs $0.34 \pm 0.4\%$). The conclusions in this study indicated that the quality of the frozen sexed-semen that has processed by pre-freezing modification technique was better than the frozen sexed-semen obtained from the Artificial Insemination Center Standard Operating procedure. © 2018 Diponegoro University. All Rights Reserved.

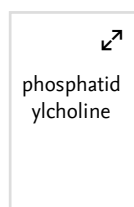
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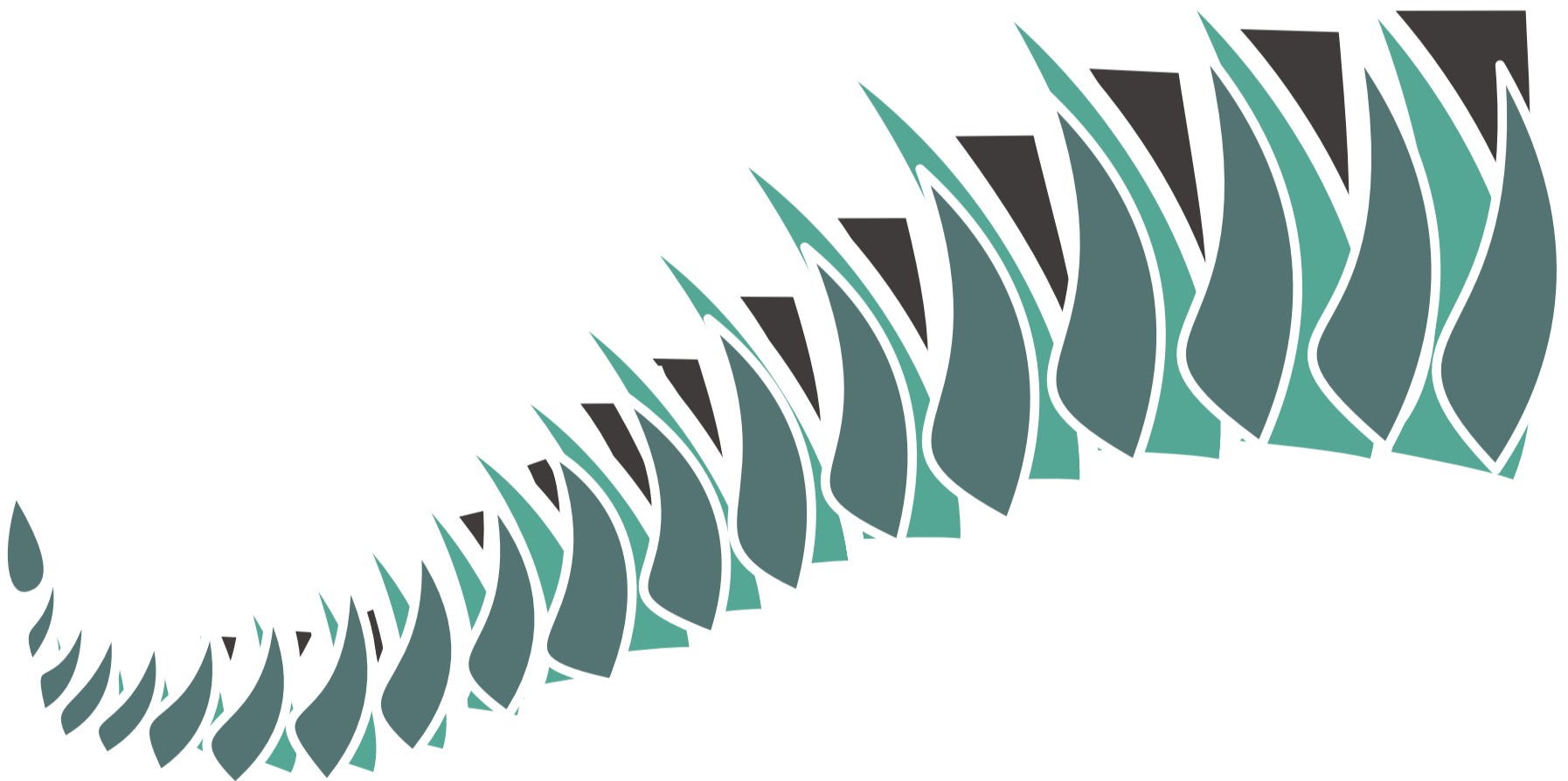
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The front cover illustrates the sketch of leaves and seeds of legume and grass forming a buffalo's horn (designed by Agung Purnomoadi)

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