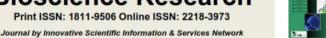


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Bioscience Research

Print ISSN: 1811-9506 Online ISSN: 2218-3973



RESEARCH ARTICLE

BIOSCIENCE RESEARCH, 2017 14(4): 1011-1018.

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Effect of assisted high voltage electricity Nannochloropsis oculata lipid extraction

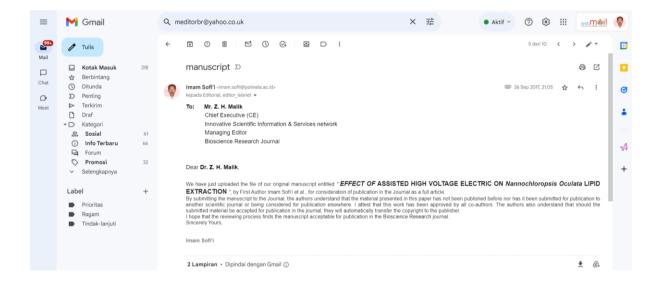
Imam Sofi'i1 and Ridwan Baharta1

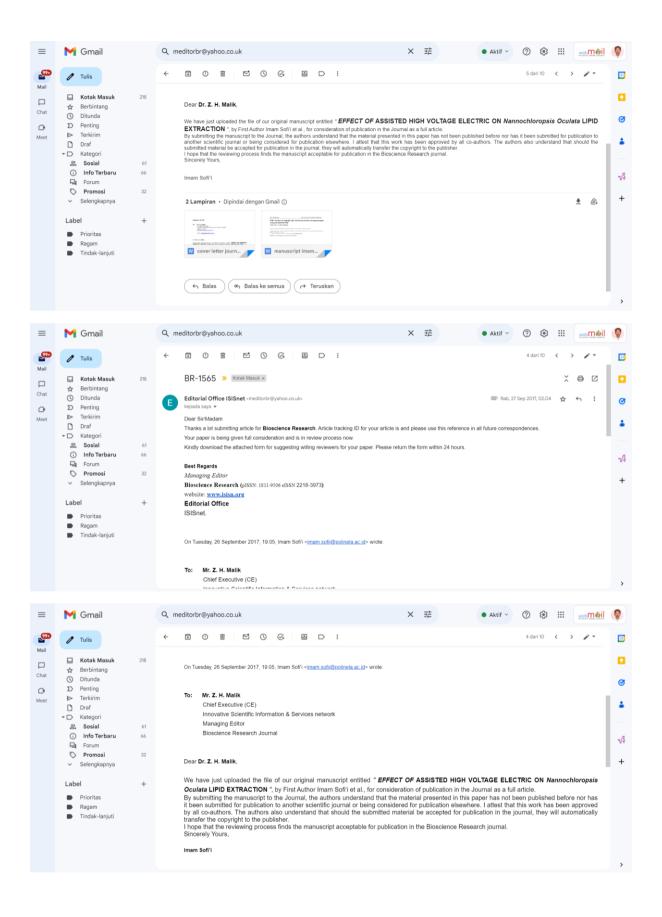
¹Department of Agricultural Technology, State Polytechnic of Lampung, 35144 Bandar Lampung, Indonesia

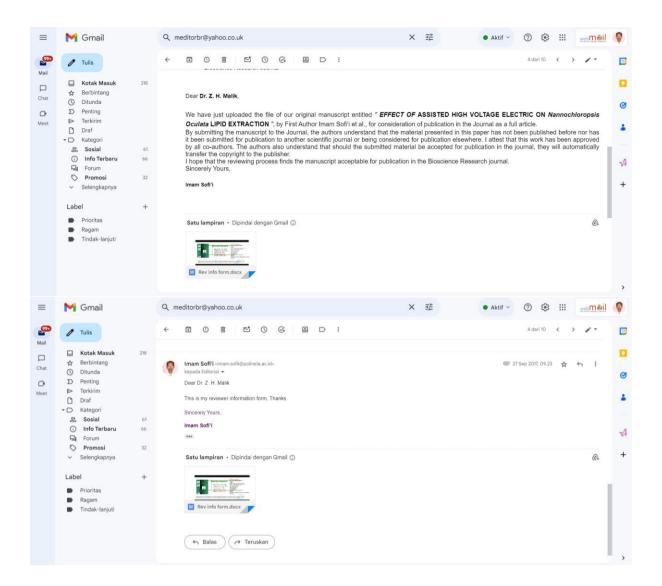
*Correspondence: imam.sofii@polinela.ac.id Accepted: 08 Oct. 2017 Published online: 11 Dec. 2017

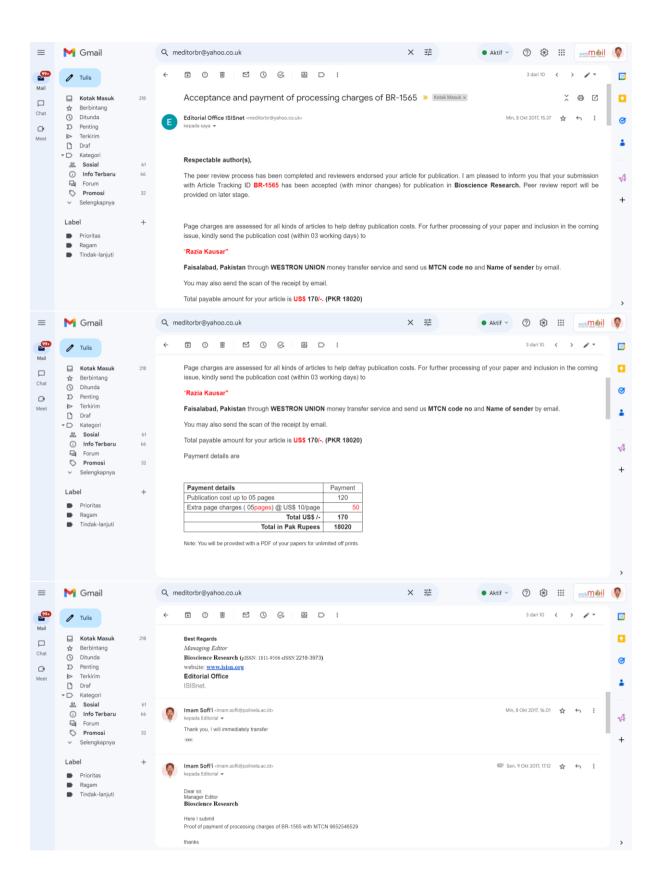
Microalgae oil extraction method for biodiesel production has been developed in order to get extraction efficiency. Generally, damaging the cells can be used to increase extraction results. One of the methods to damage cells is using high voltage electricity. The purpose of this study is to determine the effect of electric field strength and exposure duration to the lipid yield of Nannochlorpsis Oculata. The method used was to treat the Nannochloropsis suspension using high voltage electricity with field strength of 4.3 kV.cm⁻¹ - 34.8 kV.cm⁻¹ for 10 seconds - 30 seconds and continued chemical extraction. The results showed that giving electric field exposure to microalgae suspension can increase the yield of microalgae oil. The use of high voltage electrical exposure on microalgae suspension and continued by chemical extraction can raise the yield of oil obviously

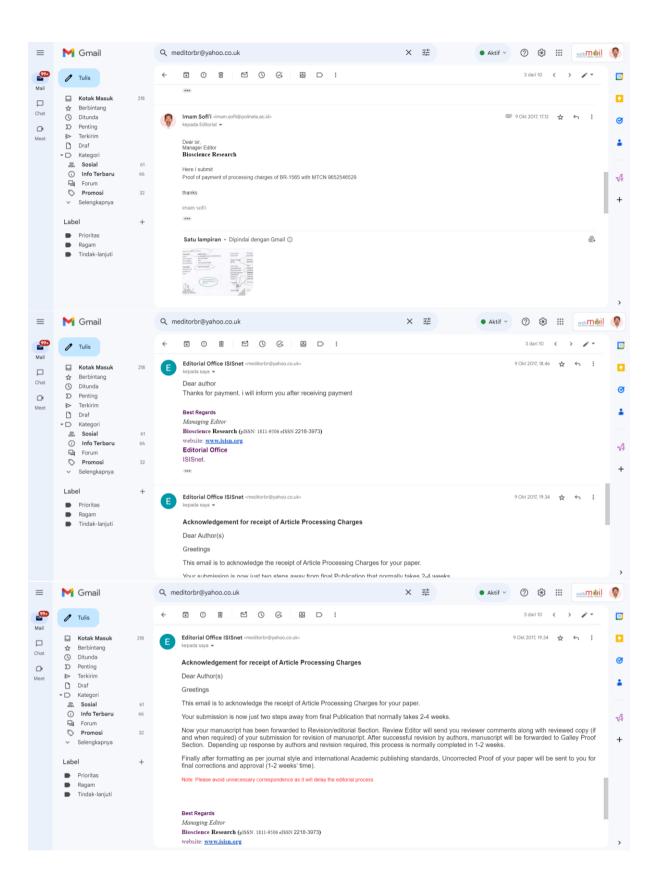
Keywords: microalgae, high voltage electricity, extraction

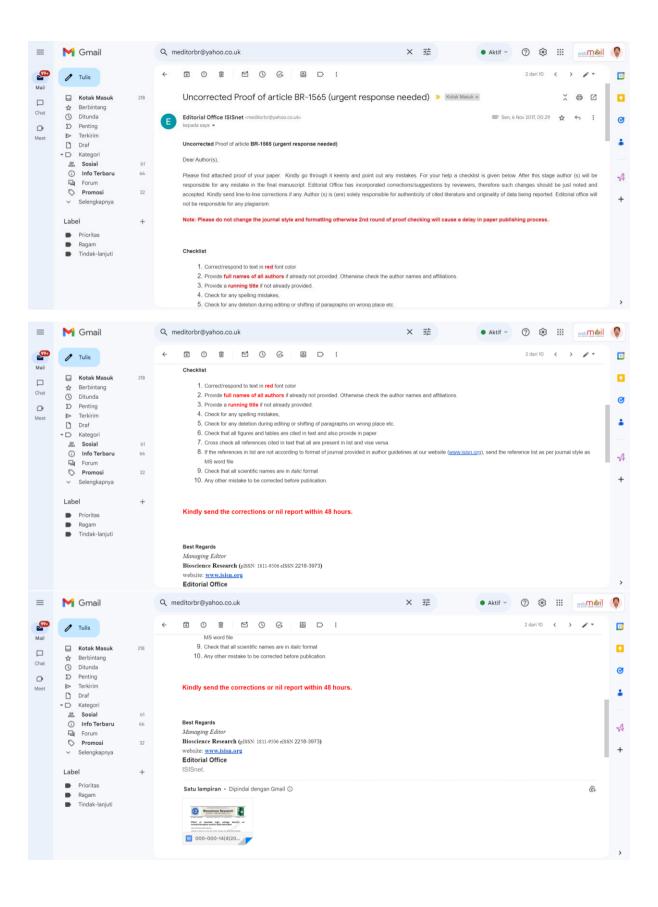


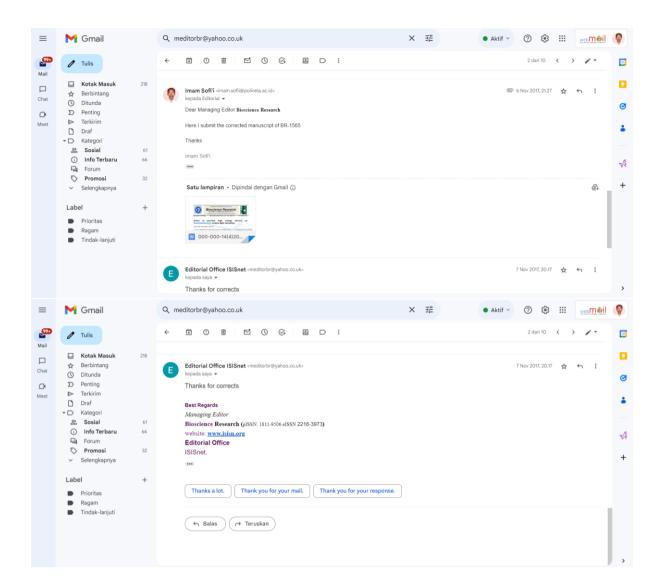


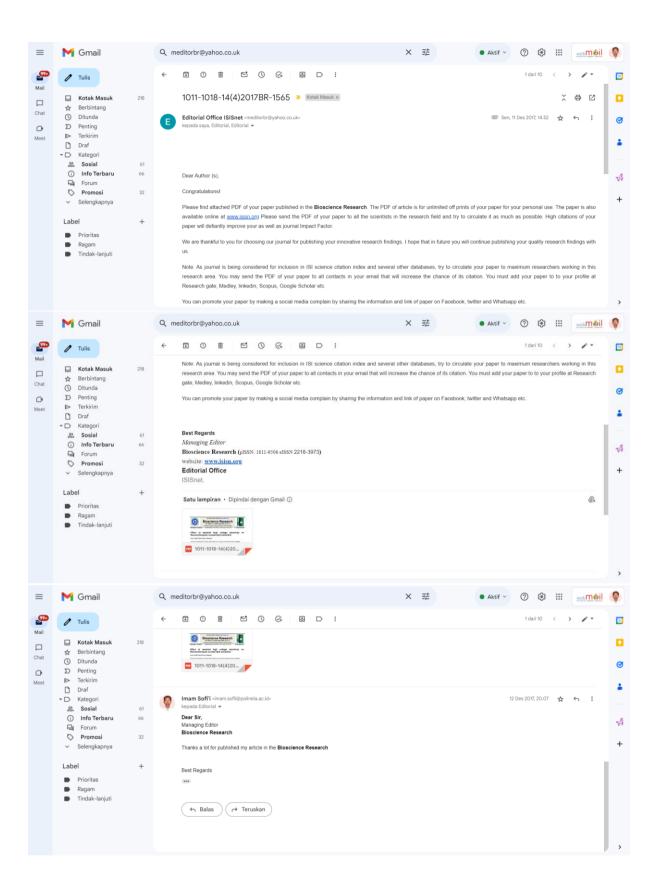












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On Tuesday, 26 September 2017, 19:05, Imam Sofi'i <imam.sofii@polinela.ac.id> wrote:

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Chief Executive (CE)
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Dear Dr. Z. H. Malik.

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8 Okt 2017, 16.01

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