COVER LETTER

April 14, 2016

Dear Professor Roberto Gambari
Chief Editor of the Journal Minerva Biotecnologica
Via Spallanzani 9 - 00161 ROMA - ITALY

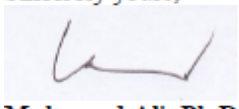
My name is, Muhamad Ali, graduated from Laboratory of Molecular Biotechnology Nagoya University Japan in 2006 and followed Postdoctoral Program at Laboratory of Cellular and Molecular Biotechnology Toyama University Japan in 2012. Now, I am researcher at Laboratory of Microbiology and Biotechnology Mataram University Indonesia with research focusses on the monoclonal antibody engineering. I would like to submit the attached research paper to the Journal Minerva Biotecnologica.

Tittle of the research paper is "**Comparison between Mammalian Cell and Bacterial Cell-free System for High-throughput Expression of Linear PCR-amplified Immunoglobulin Genes**". Cell-free expression system is the most rapid and robust method for screening of immunoglobulin gene library as shown in the most recent article entitled "Ultra-high-throughput screening of an in vitro-synthesized horseradish peroxidase displayed on microbeads using cell sorter. (Zhu B, Mizoguchi T, Kojima T, Nakano H. in PLoS One. 2015). A mammalian cell-based expression have been developed for the same purpose (Rapid production of antigen-specific monoclonal antibodies from a variety of animals. Kurosawa N, Yoshioka M, Fujimoto R, Yamagishi F, Isobe M. in BMC Biol. 2012). However, the use of both methods to express the same linear Polymerase Chain Reaction (PCR)-amplified immunoglobulin genes (Ig-genes) for generation of a functional monoclonal antibody fragment (Fab) has not been compared yet.

This manuscript is the first report describes the comparison of mammalian cell and bacterial cell-free system for high-throughput expression of linear PCR-amplified immunoglobulin genes, which strongly necessary to reduce the burden of a novel antibody discovery.

I deeply hope that this article is suitable to publish in the Journal of Minerva Biotecnologica. I looking forward your responses.

Sincerely yours,



Muhamad Ali, Ph.D
Laboratory of Microbiology and Biotechnology
Faculty of Animal Sciences, Mataram University, Indonesia
E-mail: ali.molbiotech@gmail.com

AUTHOR STATEMENT FORM

Dear editorial board of the journal Minerva Biotecnologica

I, undersigned

Name : Muhamad Ali

Position : author of manuscript entitled "Comparison between Mammalian Cell and Bacterial Cell-free System for High-throughput Expression of Linear PCR-amplified Immunoglobulin Genes"

Declare that there are no competing interests with any financial organization regarding the material discussed in the manuscript.

Mataram, March 25 2016
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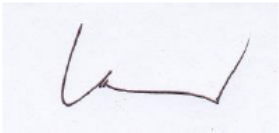

Muhamad Ali, Ph.D
Lab. Microbiology and Biotechnology
Faculty of Animal Sciences, Mataram University
Jl. Majapahit No. 62 Mataram, West Nusa Tenggara, Indonesia

AUTHORS' STATEMENT

JOURNAL TITLE: the Minerva of Biotecnologica

Manuscript title: Comparison between Mammalian Cell and Bacterial Cell-free System for High-throughput Expression of Linear PCR-amplified Immunoglobulin Genes

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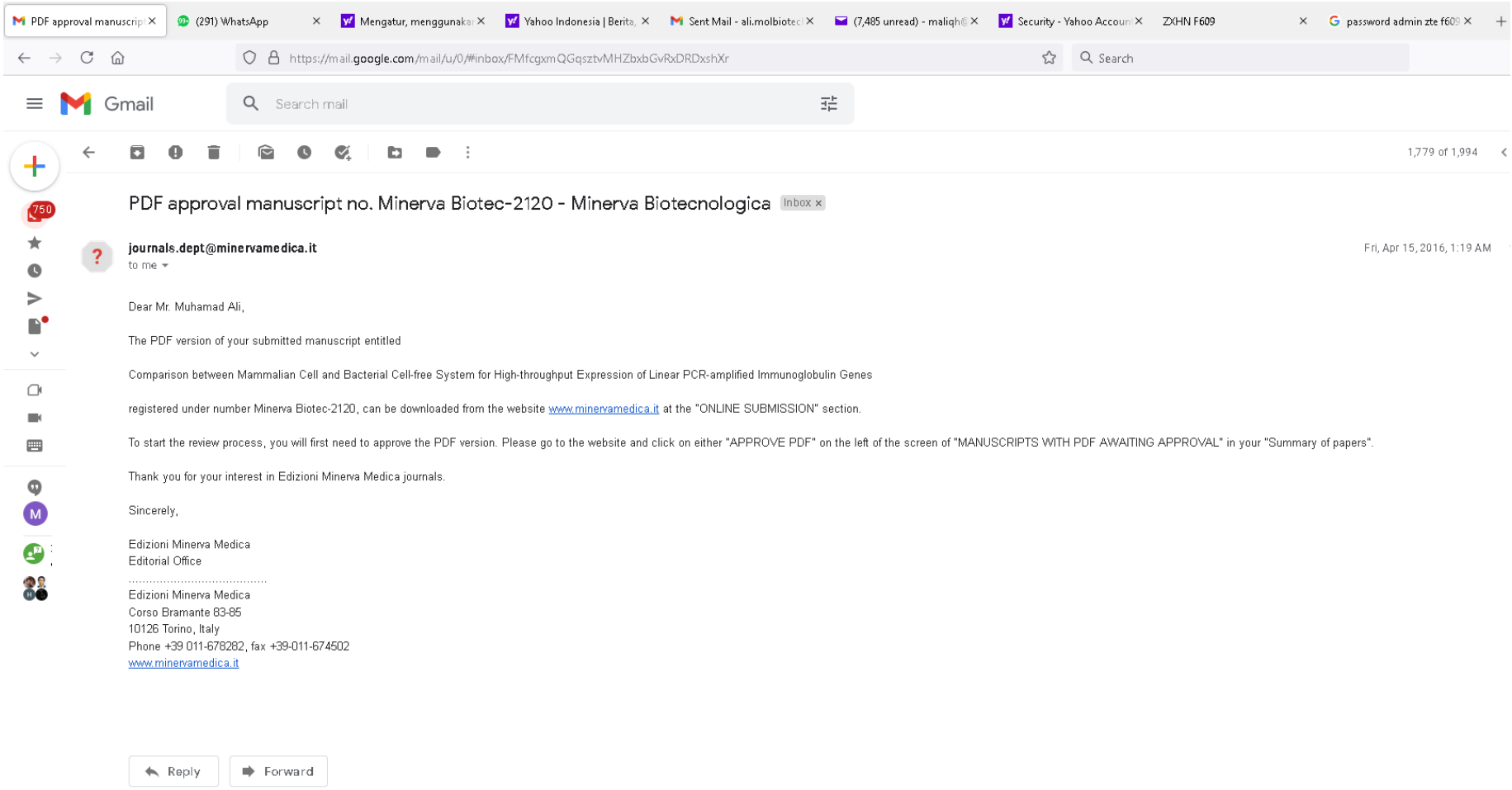

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Fri, Apr 15, 2016, 1:19 AM

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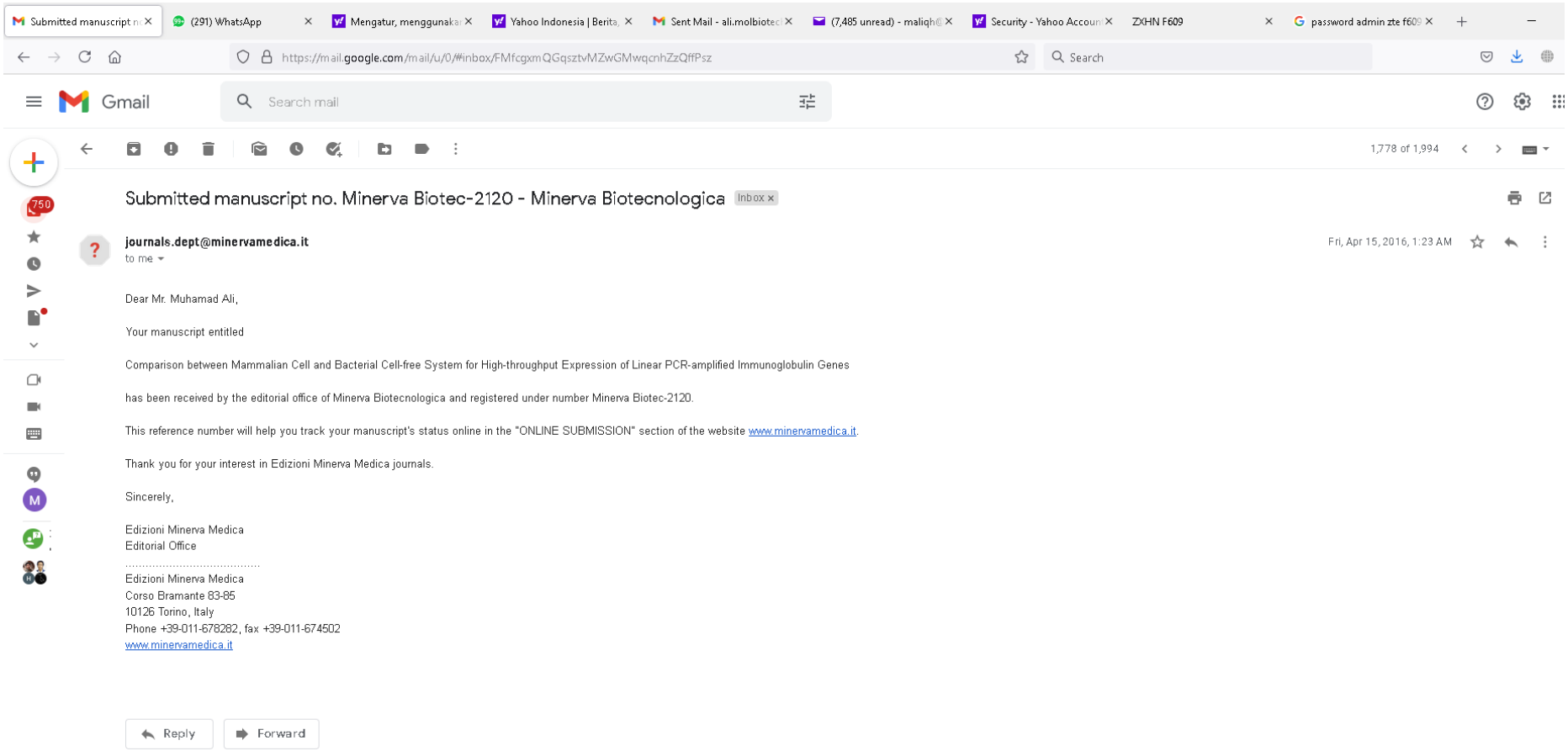

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ORIGINAL ARTICLE

Comparison between mammalian cell and bacterial cell-free system for high-throughput expression of linear PCR-amplified immunoglobulin genes

SHORT TITLE: LINEAR PCR-AMPLIFIED IMMUNOGLOBULIN GENES

Muhamad ALI

Laboratory of Microbiology and Biotechnology, Faculty of Animal Sciences, Mataram University

Mataram, Indonesia

Corresponding author: Muhamad Ali, Laboratory of Microbiology and Biotechnology, Faculty of Animal Sciences, Mataram University, Jl. Majapahit No. 62 Mataram, 83125, Indonesia, 83125. E-mail: ali.molbiotech@gmail.comali.molbiotech@gmail.com

ABSTRACT

BACKGROUND: Monoclonal antibodies have become the most crucial and fastest growing group of protein therapeutics dedicated by modern biotechnology. These molecules represent a powerful reagent not only as a weapon to fight against lethal pathogens, but also as tools for many molecular immunology investigations. Therefore, the development of a high-throughput procedure to generate the antibodies in quite an amount is highly required. Two rapid methods, mammalian cells-based expression and bacterial cell-free transcription/translation system, have been developed for the rapid generation of a functional monoclonal antibody. However, the use of both methods to express the same linear polymerase chain reaction (PCR)-amplified immunoglobulin genes (Ig-genes) for generation of a functional monoclonal antibody fragment (Fab) has not been compared yet

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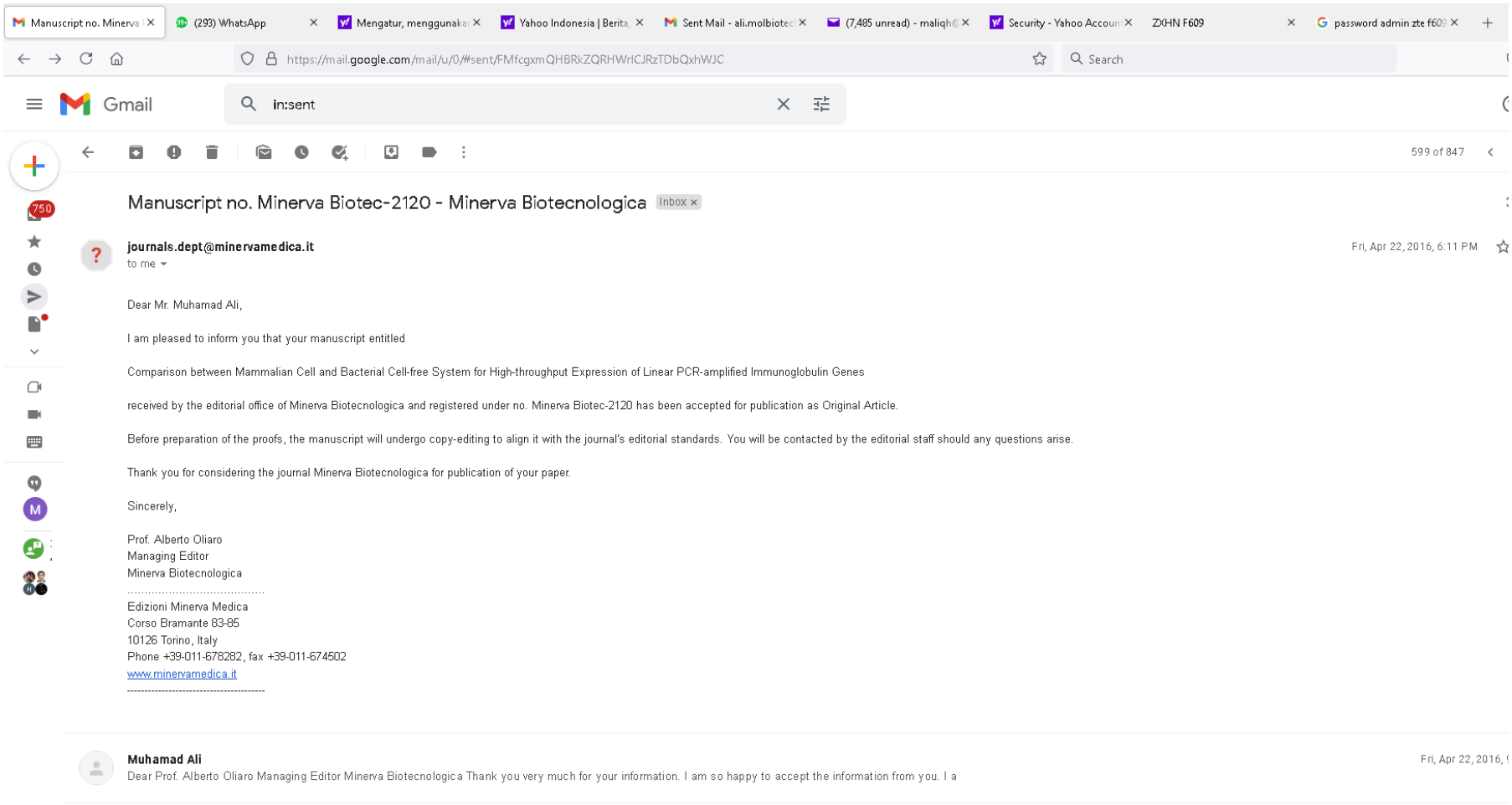

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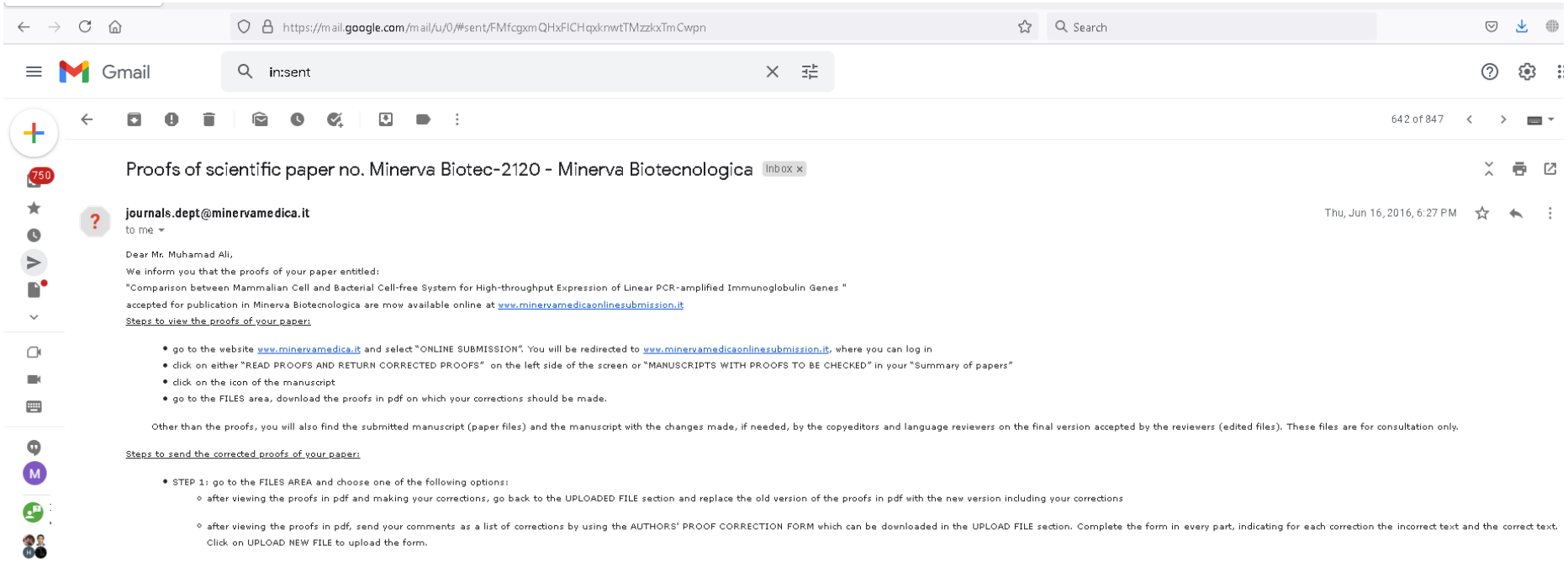

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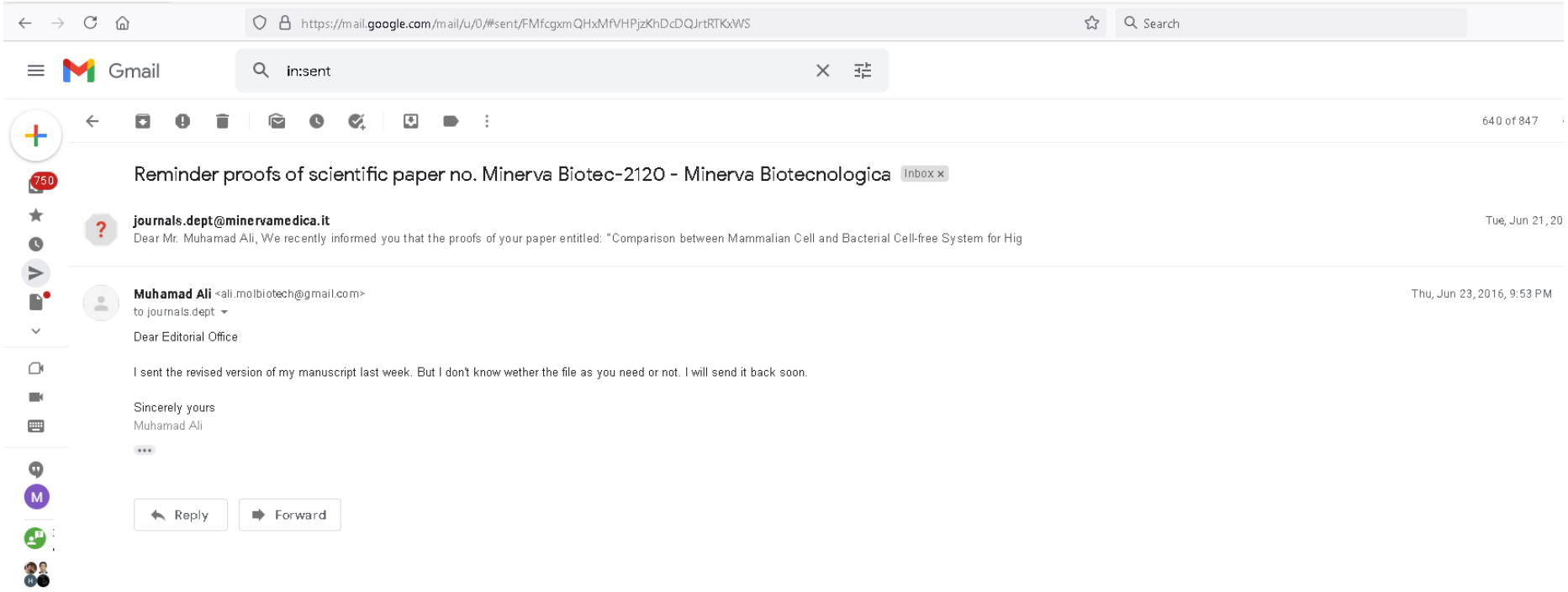
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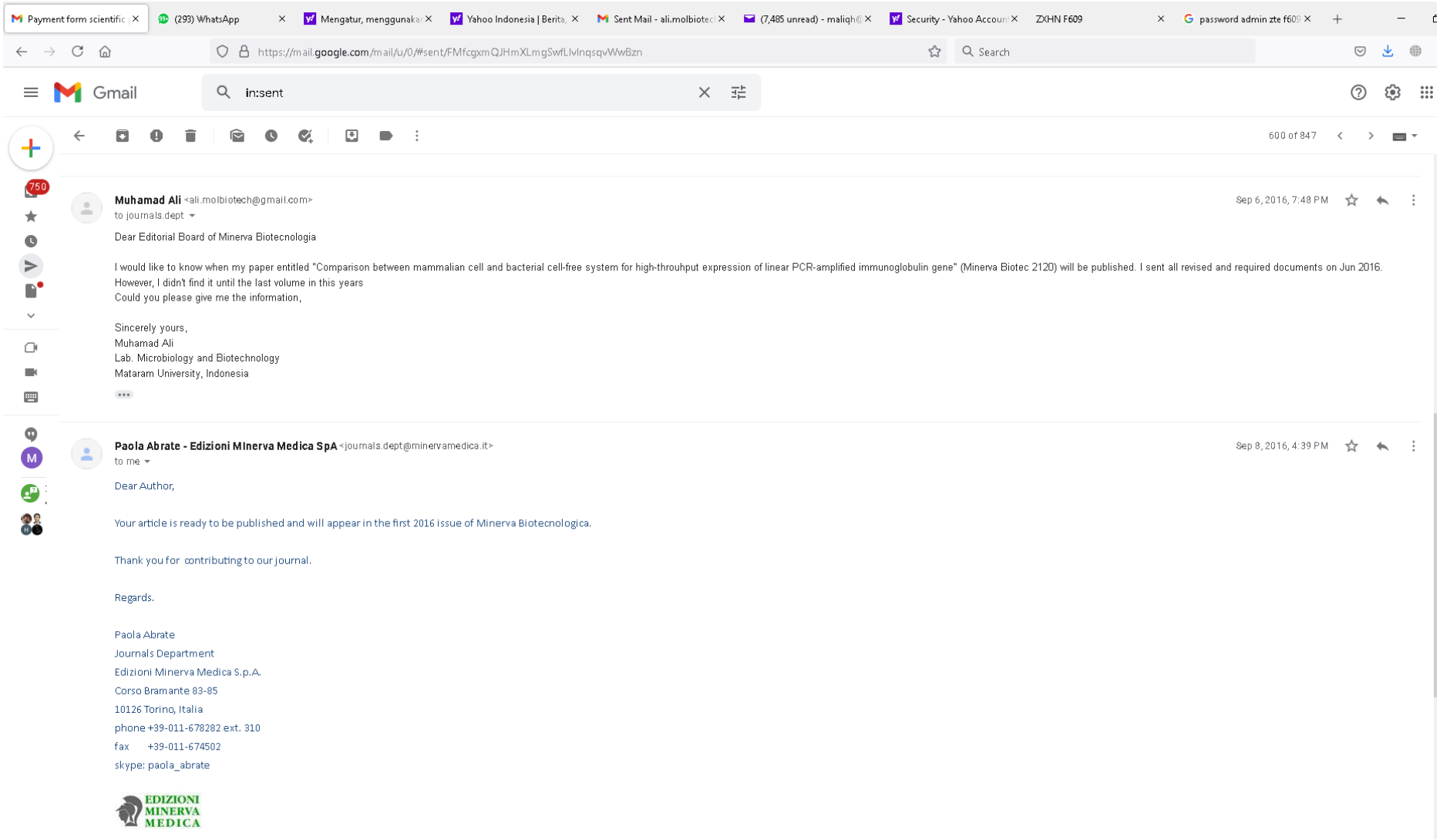

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Muhamad Ali <ali.molbiotech@gmail.com>
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Sep 6, 2016, 7:48 PM

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I would like to know when my paper entitled "Comparison between mammalian cell and bacterial cell-free system for high-throuhput expression of linear PCR-amplified immunoglobulin gene" (Minerva Biotec 2120) will be published. I sent all revised and required documents on Jun 2016.
However, I didn't find it until the last volume in this years
Could you please give me the information,

Sincerely yours,
Muhamad Ali
Lab. Microbiology and Biotechnology
Mataram University, Indonesia

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Sep 8, 2016, 4:39 PM

Dear Author,

Your article is ready to be published and will appear in the first 2016 issue of Minerva Biotecnologica.

Thank you for contributing to our journal.

Regards.

Paola Abrate
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