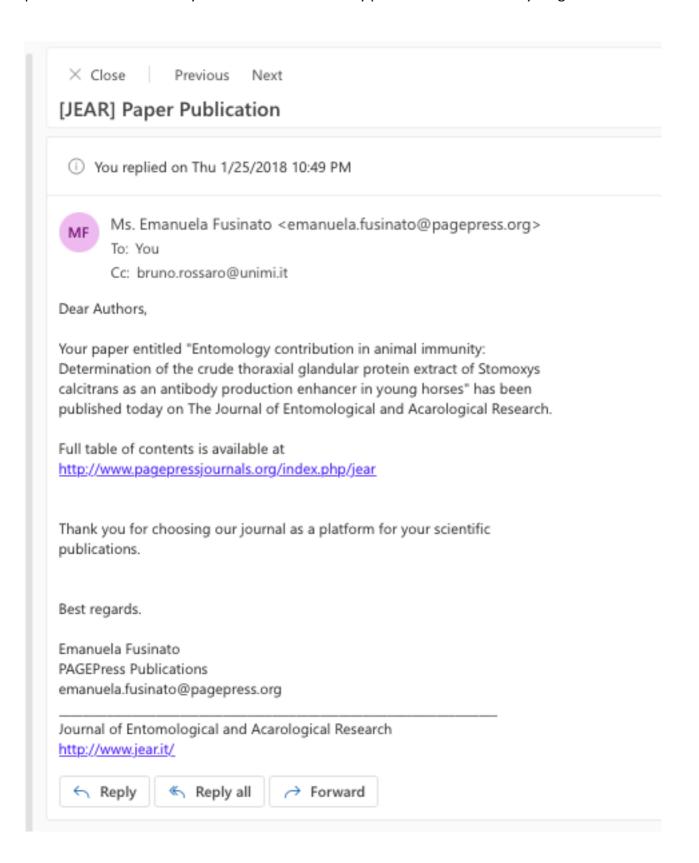
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Judul: Entomology contribution in animal immunity: Determination of the crude thoraxial glandular protein extract of Stomoxys calcitrans as an antibody production enhancer in young horses





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ENTOMOLOGY

Entomology contribution in animal immunity: Determination of the crude thoraxial glandular protein extract of Stomoxys calcitrans as an antibody production enhancer in young horses

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Abstract

This experiment was conducted to evaluate the level of antigens protein contained in the crude thoraxial glandular protein (TGP) extract of Stomoxys calcitrans which function as immunity enhancer in young horses. The detection of protein content of the thoraxial glandular samples was performed by using a spectrophotometer Nano Drop-1000. This result showed that the lowest level of antigen protein was 0.54 mg/mL, the highest was 72 mg/mL, and the average was 0.675 mg/mL. Six foals were used and divided into two groups. The first group was treated with a solution of $100~\mu g$ of TGP by subcutaneous injection, the other group acted as control. The TGP extract was injected on the first day of the exper-

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iment. Three ml of blood were sampled from the jugular vein on the 14th day after TGP injection. The blood sampled was centrifuged and its serum placed in micro-tubes to observe the IgG level. The injection of TGP had a significant effect on the IgG level of the experiment animals (P<0.05). This experiment emphasized an important relation between entomology and animal hus-bandry; health improvement in the young animals was observed after the injection of the insect antigen, so it can be concluded that crude thoraxia glandular proteins of S. calcitrans can be used to improve the immunoglobulin-G circulation in foals.

Introduction

The flies, especially the ones belonging to the family Muscidae, are often considered as bio-transmitters of pathogen microbes both in animals (Brits et al., 2016; Iqbal et al., 2014) and experiment plants (Kalaikesar et al., 2016; Wasala et al., 2013; [JEAR] Journal of Entomological and Acarological Research [paper #7074] - Proofreading Request (Author)



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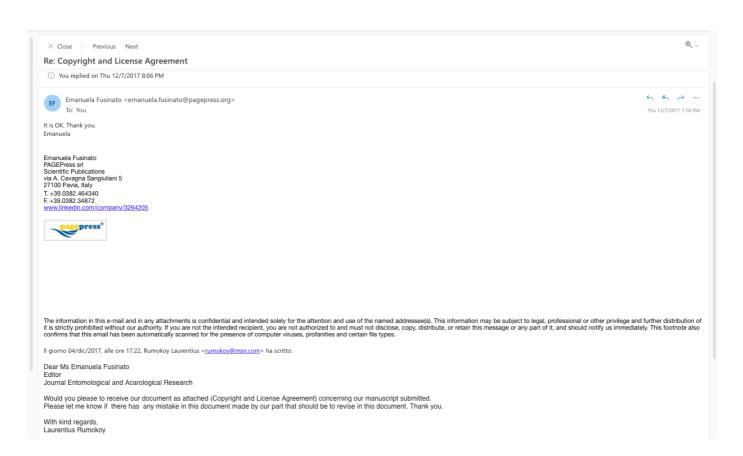
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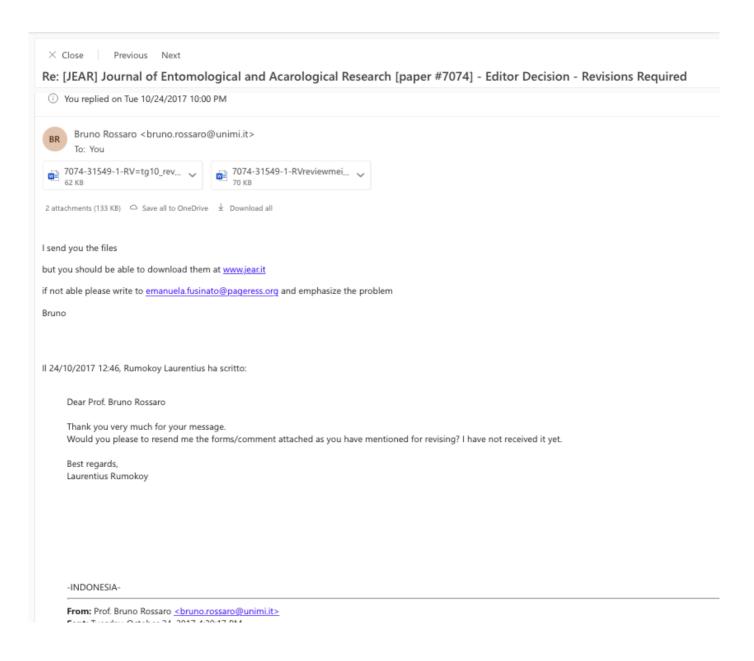
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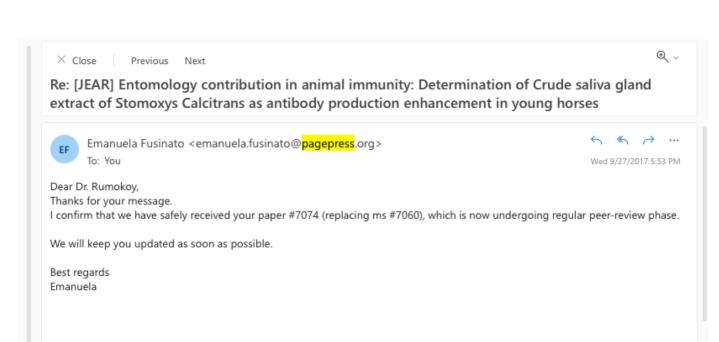
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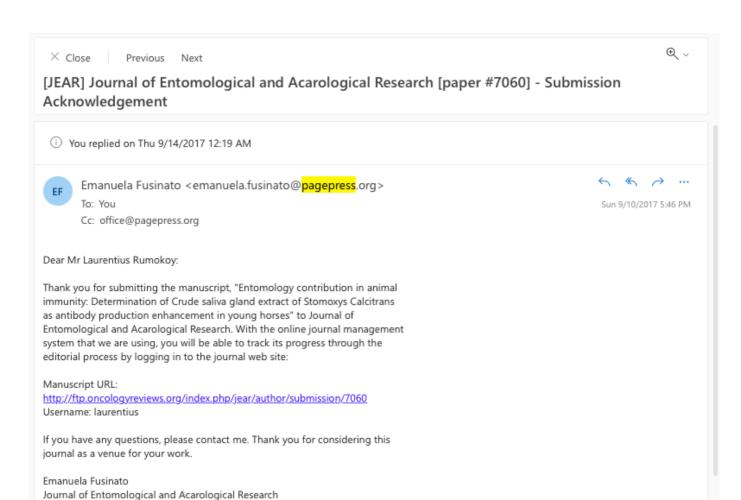




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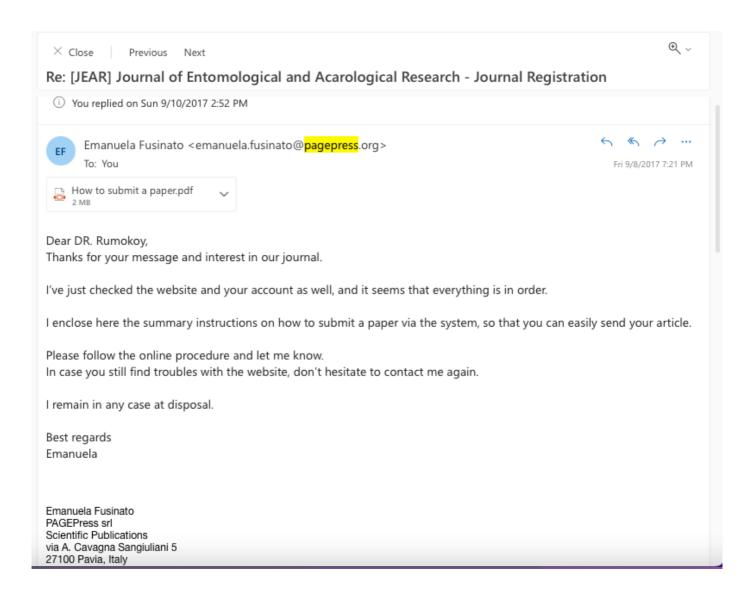
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