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to me



Dear Mahbuba Mustafa,

Thank you again for recently reviewing "**Effects of broccoli (*Brassica oleracea var italic. L*) ethanolic extract on biochemical, hematological, antioxidant, inflammatory response and performance of broilers subjected to cold stress**" for *British Poultry Science*. You can receive recognition for your review on the Web of Science here:

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# Invitation to Review for British Poultry Science

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Inbox



**British Poultry Science** <onbehalf@manuscriptcentral.com>

Sat, Apr 22,  
11:57 PM

22-Apr-2023

Dear Mustafa,

Manuscript ID CBPS-2023-112 entitled "Effects of broccoli (*Brassica oleracea* var *italica* L) ethanolic extract on biochemical, hematological, antioxidant, inflammatory response and performance of broilers subjected to cold stress" with Dr Fathi as contact author has been submitted after some preliminary revising to British Poultry Science.

I should like you to review this manuscript. Please let me know as soon as possible if you will be able to do this for us.

If you can do so you will be notified via e-mail about how to access Manuscript Central, our online manuscript submission and review system. You will then have access to the manuscript and reviewer instructions in your Reviewer Centre.

Many thanks again for your assistance over this paper.

Yours sincerely,  
George Mieras  
British Poultry Science Editorial Office  
[GeorgeMieras@britishpoultryscience.onmicrosoft.com](mailto:GeorgeMieras@britishpoultryscience.onmicrosoft.com)

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## MANUSCRIPT DETAILS

TITLE: Effects of broccoli (*Brassica oleracea* var *italica* L) ethanolic extract on biochemical, hematological, antioxidant, inflammatory response and performance of broilers subjected to cold stress

AUTHORS: Fathi, Mokhtar; rezaee, vahid

ABSTRACT: 1. This study was carried out to investigate the effect of broccoli ethanolic extract (BEE) on growth performance, oxidative stress and inflammation response of broiler chickens subjected to cold stress (CS).

2. Total of 500 one -day-old male Ross 308 broilers were randomly selected into five groups (with ten replicate and 10 birds per replicate). A total of 100 birds were reared in a thermoneutral control (NT group), and the rest of the birds (400 birds in four groups) were subjected to cool environmental temperatures (CS), and were fed a control diet as positive control (CS group) and three levels of BEE at rates of 1, 2, and 3 g/kg (BEE-1, BEE-2, and BEE-3, respectively). On day 42, one birds per cage (a total of ten birds per treatment) were weighed and euthanized, and samples for blood, liver, and heart were collected.

3. Dietary BEE modulated CS-induced effects on growth performance indices, relative weight heart weight, right ventricle / total ventricle ratio, right ventricle /body weight and mortality due to CS. The activities of superoxide dismutase, and glutathione peroxidase in serum and liver were enhanced, and malondialdehyde was reduced by BEE supplementation compared to the PC group. The CS-induced effect on serum and liver levels of TNF- $\alpha$  and interleukin-1 $\beta$  were reduced, and interleukin-10 was enhanced by dietary BEE supplementation. Moreover, supplementing of diets with BEE alleviated the adverse effect of CS as reflected by a reduction in, aspartate transaminase, alkaline phosphatase, triglyceride, and cholesterol compared to the CS group. It is also, the red blood cell count, hemoglobin, hematocrit, heterophil, and heterophil/lymphocyte ratio reduced by BEE supplementation compared to the CS group.

4. In conclusion, BEE supplementation during CS may be used to alleviate PHS- related changes in broiler chickens.