Reviewer's User Manual

Reviewing Steps:

The following email will be sent to the reviewer in order to decide whether to accept reviewing or not (**The reviewing answer should be sent till deadline**).



Dear Dr. Zahra Rostamizadeh.

We would be grateful to review Original Article(s) entitled,"Astaxanthin Reduces Demyelination and Apoptosis of Oligodendrocytes in Rat Model of MS"submitted to Cell Journal (Yakhteh). Please indicate whether you are interested to review this manuscript or not.

I accept to review this manuscript

I reject to review this manuscript

It is highly appreciated if you review till "11 July 2019".

The abstract of the manuscript is in the following section.

Title: Astaxanthin Reduces Demyelination and Apoptosis of Oligodendrocytes in Rat Model of MS

Objective

Astaxanthin is a carotenoid with anti-oxidative, anti-inflammatory and anti-apoptotic effects. It has also been reported that astaxanthin represents protective properties in neurodegenerative diseases and CNS oxidative stress. We aimed this study to evaluate protective effects of astaxanthin on demyelination and oligodendrocyte death in rat model of Multiple Sclerosis (MS).

Materials and Methods

Forty Wistar rats were randomly assigned into four experimental groups: Control group (with normal feeding), Cuprizone group received (0.6%) cuprizone daily for 4 weeks, Sham group received 0.6% cuprizone plus DMSO daily for 4 weeks, and Astaxanthin group received cuprizone (0.6%) and after 12 hours treated with astaxanthin (3mg/kg), daily for 4 weeks. Muscle strength evaluated by a behavioral basket test before and 4 weeks after surgery. Luxol Fast Blue staining was utilized for identification of myelinated neurons. Myelin Density was evaluated by image J software. The expression of A2B5 (oligodendrocyte precursor protein) and MOG (Myelin Oligodendrocyte Protein) assessed by IHC (Immunohistochemistry) and the expression of MBP (Myelin Binding Protein), MOG and PDGFR- α (Platelet-Derived Growth Factor alpha) genes tested by real-time PCR (RT-PCR) technique.

Results

Administration of astaxanthin reduced damage to oligodendrocytes and myelin sheath in rat model of MS. Basket behavioral test showed improvement of muscle strength in Astaxanthin group compared to Cuprizone and Sham groups. Besides, result of Real-Time PCR and IHC indicating the beneficial effects of astaxanthin in declining demyelination and oligodendrocytic death in rat model of MS.

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Dear Dr. zahra rostamizadeh

Thanks for accepting our invitation to be as a reviewer for Cell Journal (yekhteh). Please login to the following link and complete all the information.

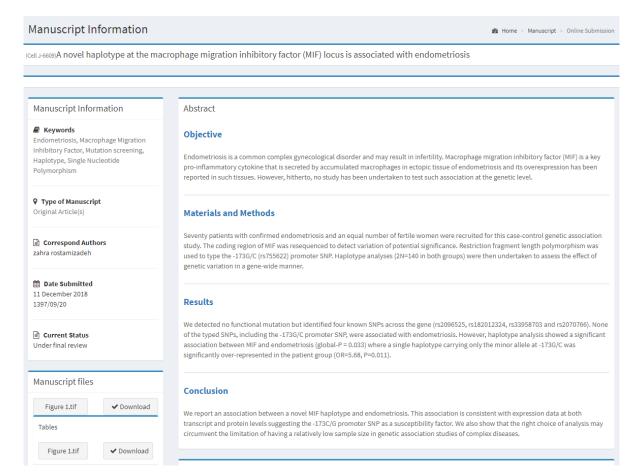
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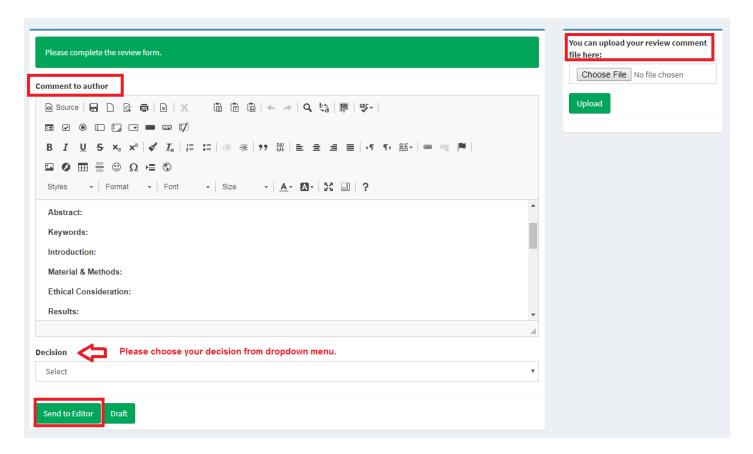
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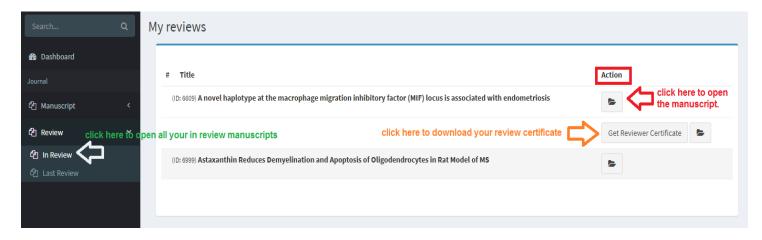
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Note: If the time of review is over please informing us to extend the time.



Dear Dr.Zahra Rostamizadeh,

We would inform you that the time of reviewing the manuscript entitled,"A novel haplotype at the macrophage migration inhibitory factor (MIF) locus is associated with endometriosis" is over.

We extended the time of reviewing till "06 August 2019".

Sincerely Yours, Ahmad Hosseini, (Ph.D) Editor-in-Chief Cell J

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