ICMJE DISCLOSURE FORM

Date:____ December 13th 2021____
Your Name:___Shuang Li__
Manuscript Title:__Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats____
Manuscript number (if known):__________________________________________________________

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. “Related” means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

The following questions apply to the author’s relationships/activities/interests as they relate to the current manuscript only.

The author’s relationships/activities/interests should be defined broadly. For example, if your manuscript pertains to the epidemiology of hypertension, you should declare all relationships with manufacturers of antihypertensive medication, even if that medication is not mentioned in the manuscript.

In item #1 below, report all support for the work reported in this manuscript without time limit. For all other items, the time frame for disclosure is the past 36 months.

|   | Name all entities with whom you have this relationship or indicate none (add rows as needed) | Specifications/Comments (e.g., if payments were made to you or to your institution) |
|---|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|   | **Time frame: Since the initial planning of the work**                                        |                                                                                 |
| 1 | All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. | __X__ None                                                                      |
| 2 | Grants or contracts from any entity (if not indicated in item #1 above).                      | __X__ None                                                                      |
| 3 | Royalties or licenses                                                                        | __X__ None                                                                      |
| 4 | Consulting fees                                                                             | __X__ None                                                                      |

|   | **Time frame: past 36 months**                                                               |                                                                                 |
| 2 | Grants or contracts from any entity (if not indicated in item #1 above).                      | __X__ None                                                                      |
| 3 | Royalties or licenses                                                                        | __X__ None                                                                      |
| 4 | Consulting fees                                                                             | __X__ None                                                                      |
|   | Description                                                                 | Answer |
|---|-----------------------------------------------------------------------------|--------|
| 5 | Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events | X None |
| 6 | Payment for expert testimony                                                | X None |
| 7 | Support for attending meetings and/or travel                                 | X None |
| 8 | Patents planned, issued or pending                                           | X None |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board            | X None |
| 10| Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | X None |
| 11| Stock or stock options                                                       | X None |
| 12| Receipt of equipment, materials, drugs, medical writing, gifts or other services | X None |
| 13| Other financial or non-financial interests                                   | X None |

Please summarize the above conflict of interest in the following box:

None.

Please place an “X” next to the following statement to indicate your agreement:

___X___ I certify that I have answered every question and have not altered the wording of any of the questions on this form.
**ICMJE DISCLOSURE FORM**

Date:____ December 13th 2021____
Your Name:___Xiaofan Gao___
Manuscript Title:____Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats____
Manuscript number (if known):___________________________________________

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| 3 | Royalties or licenses                                                                       | __X__ None                                                                      |
| 4 | Consulting fees                                                                           | __X__ None                                                                      |
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| 10 | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | __X__ None |
| 11 | Stock or stock options | __X__ None |
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ICMJE DISCLOSURE FORM

Date: _____ December 13th 2021 _____
Your Name: ___Qiushuang Zhang___
Manuscript Title: ____ Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats____
Manuscript number (if known): ________________________________

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|   | **No time limit for this item.**                                                                |                                                                                   |

|   | **Time frame: past 36 months**                                                                  |                                                                                   |
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| 3 | Royalties or licenses                                                                           | _X_ None                                                                         |
| 4 | Consulting fees                                                                                 | _X_ None                                                                         |
|   | Description                                                                 | X | None |
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|11 | Stock or stock options                                                      | X | None |
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|13 | Other financial or non-financial interests                                  | X | None |

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Please place an “X” next to the following statement to indicate your agreement:

___X___ I certify that I have answered every question and have not altered the wording of any of the questions on this form.
Date: _____ December 13th 2021____
Your Name: _____Xin Zhang____
Manuscript Title: _____Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats_____ 
Manuscript number (if known): ________________________________

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| 3 | Royalties or licenses                                                                         | __X__ None                                                                         |
| 4 | Consulting fees                                                                               | __X__ None                                                                         |
| **Time frame: past 36 months**                                                                 |                                                                                   |
|   | Conflict of Interest | Response |
|---|---------------------|----------|
| 5 | Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events | _X_ None |
| 6 | Payment for expert testimony | _X_ None |
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Date:____ December 13th 2021____
Your Name:___Wei Lin___
Manuscript Title:____ Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats____
Manuscript number (if known):__________________________________________________________________

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|   | **No time limit for this item.**                                                               |                                                                                   |

**Time frame: Since the initial planning of the work**

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**Time frame: past 36 months**

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ICMJE DISCLOSURE FORM

Date: _____ Nov. 29th, 2021____
Your Name: ___ Wei Ding ___
Manuscript Title: ____ Astaxanthin protects spinal cord tissues from apoptosis after spinal cord injury in rats ____
Manuscript number (if known): ___________________________________________________________

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| 3 | Royalties or licenses | __X__ None                                                                         |
| 4 | Consulting fees | __X__ None                                                                         |

Time frame: past 36 months
|   | Description                                                                 | X | None |
|---|----------------------------------------------------------------------------|----|------|
| 5 | Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events | X  | None |
| 6 | Payment for expert testimony                                                | X  | None |
| 7 | Support for attending meetings and/or travel                                | X  | None |
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