| Date:08/08/2021  |
|--|
| Your Name:Shaobin Feng   |
| Manuscript Title: Long non-coding RNA AC122108.1 promotes lung adenocarcinoma brain metastasis and progression |
| through the Wnt/β-catenin pathway by directly binding to aldolase A  |
| 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 <u>current manuscript only</u>.

The author's relationships/activities/interests should be <u>defined broadly</u>. 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.

|   |                               | Name all entities with        | Specifications/Comments                        |
|---|-------------------------------|-------------------------------|--|
|   |                               | whom you have this            | (e.g., if payments were made to you or to your |
|   |                               | relationship or indicate      | institution)                                   |
|   |                               | none (add rows as             |  |
|   |                               | needed)                       |  |
|   |                               | Time frame: Since the initial | planning of the work                           |
| 1 | All support for the present   | Jinan Science and             |  |
|   | manuscript (e.g., funding,    | Technology Plan (Grant        |  |
|   | provision of study materials, | No. 201907049)                |  |
|   | medical writing, article      | China National Natural        |  |
|   | processing charges, etc.)     | Science Foundation (Grant     |  |
|   | No time limit for this item.  | No. 81771270)                 |  |
|   |                               | Shandong Provincial           |  |
|   |                               | Natural Science               |  |
|   |                               | Foundation (Grant No.         |  |
|   |                               | 202019088)                    |  |
|   |                               | Natural Science               |  |
|   |                               | Foundation of Shandong        |  |
|   |                               | Province (Grant No.           |  |
|   |                               | ZR2014HM010)                  |  |
|   |                               | Shandong Province             |  |
|   |                               | Science and Technology        |  |
|   |                               | Development Program           |  |
|   |                               | (Grant No.                    |  |

|    |                              | 2015GSF118164) |   |
|----|------------------------------|----------------|---|
| 2  | Grants or contracts from     | None           | X |
|    | any entity (if not indicated |                |   |
|    | in item #1 above).           |                |   |
| 3  | Royalties or licenses        | None           | X |
|    | ,                            |                |   |
|    |                              |                |   |
| 4  | Consulting fees              | None           | X |
|    |                              |                |   |
|    |                              |                |   |
| 5  | Payment or honoraria for     | None           | X |
|    | lectures, presentations,     |                |   |
|    | speakers bureaus,            |                |   |
|    | manuscript writing or        |                |   |
|    | educational events           |                |   |
| 6  | Payment for expert           | None           | X |
|    | testimony                    |                |   |
|    |                              |                |   |
| 7  | Support for attending        | None           | X |
|    | meetings and/or travel       |                |   |
|    |                              |                |   |
|    |                              |                |   |
|    |                              |                |   |
| 8  | Patents planned, issued or   | None           | X |
|    | pending                      |                |   |
|    |                              |                |   |
| 9  | Participation on a Data      | None           | X |
|    | Safety Monitoring Board or   |                |   |
|    | Advisory Board               |                |   |
| 10 | Leadership or fiduciary role | None           | X |
|    | in other board, society,     |                |   |
|    | committee or advocacy        |                |   |
|    | group, paid or unpaid        |                |   |
| 11 | Stock or stock options       | None           | X |
|    |                              |                |   |
|    |                              |                |   |
| 12 | Receipt of equipment,        | None           | X |
|    | materials, drugs, medical    |                |   |
|    | writing, gifts or other      |                |   |
|    | services                     |                |   |
| 13 | Other financial or non-      | None           | X |
|    | financial interests          |                |   |
|    |                              |                |   |

This work was supported by Jinan Science and Technology Plan (Grant No. 201907049), China National Natural Science Foundation (Grant No. 81771270), Shandong Provincial Natural Science Foundation (Grant No. 202019088), the Natural Science Foundation of Shandong Province (Grant No. ZR2014HM010) and Shandong Province Science and Technology Development Program (Grant No. 2015GSF118164).

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\_ X\_ I certify that I have answered every question and have not altered the wording of any of the questions on this form.

Χ

| Date: <u>08/08/2021</u>  |    |
|--|----|
| Your Name: Huiling Liu   | _  |
| Manuscript Title: Long non-coding RNA AC122108.1 promotes lung adenocarcinoma brain metastasis and progression | on |
| through the Wnt/β-catenin pathway by directly binding to aldolase A  |    |
| Manuscript number (if known):  |    |

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|   |                               | Natural Science               |  |
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|   |                               | Foundation of Shandong        |  |
|   |                               | Province (Grant No.           |  |
|   |                               | ZR2014HM010)                  |  |
|   |                               | Shandong Province             |  |
|   |                               | Science and Technology        |  |
|   |                               | Development Program           |  |
|   |                               | (Grant No.                    |  |

|    |                              | 2015GSF118164) |   |  |
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| 2  | Grants or contracts from     | None           | X |  |
|    | any entity (if not indicated |                |   |  |
|    | in item #1 above).           |                |   |  |
| 3  | Royalties or licenses        | None           | X |  |
|    | ·                            |                |   |  |
|    |                              |                |   |  |
| 4  | Consulting fees              | None           | Х |  |
|    |                              |                |   |  |
|    |                              |                |   |  |
| 5  | Payment or honoraria for     | None           | X |  |
|    | lectures, presentations,     |                |   |  |
|    | speakers bureaus,            |                |   |  |
|    | manuscript writing or        |                |   |  |
|    | educational events           |                |   |  |
| 6  | Payment for expert           | None           | X |  |
|    | testimony                    |                |   |  |
|    |                              |                |   |  |
| 7  | Support for attending        | None           | X |  |
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|    |                              |                |   |  |
|    |                              |                |   |  |
|    |                              |                |   |  |
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|    | pending                      |                |   |  |
|    |                              |                |   |  |
| 9  | Participation on a Data      | None           | X |  |
|    | Safety Monitoring Board or   |                |   |  |
|    | Advisory Board               |                |   |  |
| 10 | Leadership or fiduciary role | None           | X |  |
|    | in other board, society,     |                |   |  |
|    | committee or advocacy        |                |   |  |
|    | group, paid or unpaid        |                |   |  |
| 11 | Stock or stock options       | None           | X |  |
|    |                              |                |   |  |
|    |                              |                |   |  |
| 12 | Receipt of equipment,        | None           | X |  |
|    | materials, drugs, medical    |                |   |  |
|    | writing, gifts or other      |                |   |  |
|    | services                     |                |   |  |
| 13 | Other financial or non-      | None           | X |  |
|    | financial interests          |                |   |  |
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Χ

| Date: 08/08/2021   |
|--|
| Your Name: Peng Du   |
| Manuscript Title: Long non-coding RNA AC122108.1 promotes lung adenocarcinoma brain metastasis and progression |
| through the Wnt/β-catenin pathway by directly binding to aldolase A  |
| Manuscript number (if known):  |

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|   |                               | Shandong Provincial           |  |
|   |                               | Natural Science               |  |
|   |                               | Foundation (Grant No.         |  |
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|   |                               | Foundation of Shandong        |  |
|   |                               | Province (Grant No.           |  |
|   |                               | ZR2014HM010)                  |  |
|   |                               | Shandong Province             |  |
|   |                               | Science and Technology        |  |
|   |                               | Development Program           |  |
|   |                               | (Grant No.                    |  |

|    |   | 2015GSF118164) |   |  |
|----|---|----------------|---|--|
| 2  | Grants or contracts from                          | None           | X |  |
|    | any entity (if not indicated                      |                |   |  |
|    | in item #1 above).                                |                |   |  |
| 3  | Royalties or licenses                             | None           | X |  |
|    |   |                |   |  |
|    |   |                |   |  |
| 4  | Consulting fees                                   | None           | X |  |
|    |   |                |   |  |
| 5  | Decimant or handwarin for                         | Nana           | X |  |
| 5  | Payment or honoraria for lectures, presentations, | None           | ^ |  |
|    | speakers bureaus,                                 |                |   |  |
|    | manuscript writing or                             |                |   |  |
|    | educational events                                |                |   |  |
| 6  | Payment for expert                                | None           | X |  |
|    | testimony   |                |   |  |
|    |   |                |   |  |
| 7  | Support for attending                             | None           | X |  |
|    | meetings and/or travel                            |                |   |  |
|    |   |                |   |  |
|    |   |                |   |  |
|    |   |                |   |  |
| 8  | Patents planned, issued or                        | None           | X |  |
|    | pending   |                |   |  |
| _  | 5   | A.             |   |  |
| 9  | Participation on a Data                           | None           | X |  |
|    | Safety Monitoring Board or Advisory Board         |                |   |  |
| 10 | Leadership or fiduciary role                      | None           | X |  |
| 10 | in other board, society,                          | None           | ^ |  |
|    | committee or advocacy                             |                |   |  |
|    | group, paid or unpaid                             |                |   |  |
| 11 | Stock or stock options                            | None           | X |  |
|    |   |                |   |  |
|    |   |                |   |  |
| 12 | Receipt of equipment,                             | None           | X |  |
|    | materials, drugs, medical                         |                |   |  |
|    | writing, gifts or other                           |                |   |  |
| 12 | services  | News           | X |  |
| 13 | Other financial or non-<br>financial interests    | None           | ^ |  |
|    | imancial interests                                |                |   |  |
|    |   |                |   |  |

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Χ

| Date: <u>08/08/2021</u>   |   |
|---|---|
| Your Name:Xushuai Dong  | _ |
| Manuscript Title: Long non-coding RNA AC122108.1 promotes lung adenocarcinoma brain metastasis and progressic | n |
| through the Wnt/β-catenin pathway by directly binding to aldolase A   |   |
| Manuscript number (if known):   |   |

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|   |   | 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. | Jinan Science and Technology Plan (Grant No. 201907049) China National Natural Science Foundation (Grant No. 81771270) Shandong Provincial Natural Science Foundation (Grant No. 202019088) Natural Science Foundation of Shandong Province (Grant No. |   |
|   |   | ZR2014HM010) Shandong Province Science and Technology  |   |
|   |   | Development Program<br>(Grant No.  |   |

|    |   | 2015GSF118164) |                                       |  |
|----|---|----------------|---------------------------------------|--|
| 2  | Grants or contracts from                          | None           | Х                                     |  |
|    | any entity (if not indicated                      |                |                                       |  |
|    | in item #1 above).                                |                |                                       |  |
| 3  | Royalties or licenses                             | None           | X                                     |  |
|    |   |                |                                       |  |
|    |   |                | V                                     |  |
| 4  | Consulting fees                                   | None           | X                                     |  |
|    |   |                |                                       |  |
| 5  | Dayment or honoraria for                          | None           | X                                     |  |
| Э  | Payment or honoraria for lectures, presentations, | None           | ^                                     |  |
|    | speakers bureaus,                                 |                |                                       |  |
|    | manuscript writing or                             |                |                                       |  |
|    | educational events                                |                |                                       |  |
| 6  | Payment for expert                                | None           | X                                     |  |
|    | testimony   |                |                                       |  |
|    |   |                |                                       |  |
| 7  | Support for attending                             | None           | X                                     |  |
|    | meetings and/or travel                            |                |                                       |  |
|    |   |                |                                       |  |
|    |   |                |                                       |  |
|    |   |                |                                       |  |
| 8  | Patents planned, issued or                        | None           | X                                     |  |
|    | pending   |                |                                       |  |
| 9  | Participation on a Data                           | None           | X                                     |  |
| 9  | Safety Monitoring Board or                        | None           | Α                                     |  |
|    | Advisory Board                                    |                |                                       |  |
| 10 | Leadership or fiduciary role                      | None           | X                                     |  |
|    | in other board, society,                          |                | , , , , , , , , , , , , , , , , , , , |  |
|    | committee or advocacy                             |                |                                       |  |
|    | group, paid or unpaid                             |                |                                       |  |
| 11 | Stock or stock options                            | None           | X                                     |  |
|    |   |                |                                       |  |
|    |   |                |                                       |  |
| 12 | Receipt of equipment,                             | None           | X                                     |  |
|    | materials, drugs, medical writing, gifts or other |                |                                       |  |
|    | services  |                |                                       |  |
| 13 | Other financial or non-                           | None           | X                                     |  |
| 13 | financial interests                               | TTOTIC         |                                       |  |
|    | ariolar irred ests                                |                |                                       |  |
|    |   |                |                                       |  |

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| Date: 08/08/2021   |
|--|
| Your Name: Qi Pang   |
| Manuscript Title: Long non-coding RNA AC122108.1 promotes lung adenocarcinoma brain metastasis and progression |
| through the Wnt/β-catenin pathway by directly binding to aldolase A  |
| Manuscript number (if known):  |

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|   |                               | Foundation of Shandong        |  |
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|   |                               | Shandong Province             |  |
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|   |                               | (Grant No.                    |  |

|    |  | 2015GSF118164) |   |  |
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| 2  | Grants or contracts from                       | None           | X |  |
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|    | in item #1 above).                             |                |   |  |
| 3  | Royalties or licenses                          | None           | X |  |
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|    |  |                |   |  |
| 4  | Consulting fees                                | None           | X |  |
|    |  |                |   |  |
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| 5  | Payment or honoraria for                       | None           | X |  |
|    | lectures, presentations,                       |                |   |  |
|    | speakers bureaus,<br>manuscript writing or     |                |   |  |
|    | educational events                             |                |   |  |
| 6  | Payment for expert                             | None           | X |  |
|    | testimony                                      |                | , |  |
|    | ,  |                |   |  |
| 7  | Support for attending                          | None           | Х |  |
|    | meetings and/or travel                         |                | ^ |  |
|    |  |                |   |  |
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|    |  |                |   |  |
| 8  | Patents planned, issued or                     | None           | X |  |
|    | pending  |                |   |  |
|    |  |                |   |  |
| 9  | Participation on a Data                        | None           | X |  |
|    | Safety Monitoring Board or                     |                |   |  |
| 10 | Advisory Board                                 |                | X |  |
| 10 | Leadership or fiduciary role                   | None           | ^ |  |
|    | in other board, society, committee or advocacy |                |   |  |
|    | group, paid or unpaid                          |                |   |  |
| 11 | Stock or stock options                         | None           | Х |  |
|    |  |                |   |  |
|    |  |                |   |  |
| 12 | Receipt of equipment,                          | None           | X |  |
|    | materials, drugs, medical                      |                |   |  |
|    | writing, gifts or other                        |                |   |  |
|    | services                                       |                |   |  |
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|   | medical writing, article      | China National Natural        |  |
|   | processing charges, etc.)     | Science Foundation (Grant     |  |
|   | No time limit for this item.  | No. 81771270)                 |  |
|   |                               | Shandong Provincial           |  |
|   |                               | Natural Science               |  |
|   |                               | Foundation (Grant No.         |  |
|   |                               | 202019088)                    |  |
|   |                               | Natural Science               |  |
|   |                               | Foundation of Shandong        |  |
|   |                               | Province (Grant No.           |  |
|   |                               | ZR2014HM010)                  |  |
|   |                               | Shandong Province             |  |
|   |                               | Science and Technology        |  |
|   |                               | Development Program           |  |
|   |                               | (Grant No.                    |  |

|    |   | 2015GSF118164) |   |  |
|----|---|----------------|---|--|
| 2  | Grants or contracts from                    | None           | X |  |
|    | any entity (if not indicated                |                |   |  |
|    | in item #1 above).                          |                |   |  |
| 3  | Royalties or licenses                       | None           | X |  |
|    |   |                |   |  |
|    |   |                |   |  |
| 4  | Consulting fees                             | None           | X |  |
|    |   |                |   |  |
| _  |   | A1             | X |  |
| 5  | Payment or honoraria for                    | None           | ^ |  |
|    | lectures, presentations, speakers bureaus,  |                |   |  |
|    | manuscript writing or                       |                |   |  |
|    | educational events                          |                |   |  |
| 6  | Payment for expert                          | None           | X |  |
|    | testimony                                   |                |   |  |
|    |   |                |   |  |
| 7  | Support for attending                       | None           | X |  |
|    | meetings and/or travel                      |                |   |  |
|    |   |                |   |  |
|    |   |                |   |  |
| 8  | Patents planned, issued or                  | None           | Х |  |
|    | pending                                     |                |   |  |
|    |   |                |   |  |
| 9  | Participation on a Data                     | None           | X |  |
|    | Safety Monitoring Board or                  |                |   |  |
|    | Advisory Board                              |                |   |  |
| 10 | Leadership or fiduciary role                | None           | X |  |
|    | in other board, society,                    |                |   |  |
|    | committee or advocacy group, paid or unpaid |                |   |  |
| 11 | Stock or stock options                      | None           | X |  |
|    | Stank of Stack Options                      |                |   |  |
|    |   |                |   |  |
| 12 | Receipt of equipment,                       | None           | X |  |
|    | materials, drugs, medical                   |                |   |  |
|    | writing, gifts or other                     |                |   |  |
|    | services                                    |                |   |  |
| 13 | Other financial or non-                     | None           | X |  |
|    | financial interests                         |                |   |  |
|    |   |                |   |  |

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Χ

## 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.