ICMJE DISCLOSURE FORM

Date: December 11, 2021
Your Name: Beibei Wang
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
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.

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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) |
|---|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| **1** | All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.)<br>No time limit for this item. | the Health science and Technology Project of Zhejiang Province<br>2022RC047 to Beibei Wang |
| **2** | Grants or contracts from any entity (if not indicated in item #1 above). | None |
| **3** | Royalties or licenses | None |
| **4** | Consulting fees | None |
| **5** | Payment or honoraria for | None |
|   |   |
|---|---|
| lectures, presentations, speakers bureaus, manuscript writing or educational events |   |
| 6 | Payment for expert testimony | None |
| 7 | Support for attending meetings and/or travel | None |
| 8 | Patents planned, issued or pending | None |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board | None |
| 10 | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None |
| 11 | Stock or stock options | None |
| 12 | Receipt of equipment, materials, drugs, medical writing, gifts or other services | None |
| 13 | Other financial or non-financial interests | None |

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

The author reports funding support from the Health science and Technology Project of Zhejiang Province (2022RC047).

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 11, 2021
Your Name: Nian Dong
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
Manuscript number (if known): 

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| Time frame: Since the initial planning of the work | Time frame: past 36 months |
|-----------------------------------------------------|-----------------------------|
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| | 3 Royalties or licenses None |
| | 4 Consulting fees None |
|   | Description                                                                 | None |
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| 5 | Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events |      |
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|11 | Stock or stock options                                                      |      |
|12 | Receipt of equipment, materials, drugs, medical writing, gifts or other services |      |
|13 | Other financial or non-financial interests                                  |      |

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 11, 2021
Your Name: Dengmin Wu
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
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.

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Time frame: Since the initial planning of the work

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

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ICMJE DISCLOSURE FORM

Date: December 11, 2021
Your Name: Ya Fang
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
Manuscript number (if known): ________________________________

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| **Time frame: past 36 months** |
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| 3 | Royalties or licenses | None |
| 4 | Consulting fees | None |
| 5 | Payment or honoraria for | None |
|   |   |   |
|---|---|---|
| 6 | Payment for expert testimony | None |
| 7 | Support for attending meetings and/or travel | None |
| 8 | Patents planned, issued or pending | None |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board | None |
| 10 | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None |
| 11 | Stock or stock options | None |
| 12 | Receipt of equipment, materials, drugs, medical writing, gifts or other services | None |
| 13 | Other financial or non-financial interests | None |

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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 11, 2021  
**Your Name:** Junjie Chen  
**Manuscript Title:** Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling  
**Manuscript number (if known):**

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|---|---|---|
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No time limit for this item. | the Natural Science Foundation of Zhejiang Province  
LQ20H010002 to Junjie Chen |
| **Time frame: past 36 months** | | |
| 2 | Grants or contracts from any entity (if not indicated in item #1 above). | None |
| 3 | Royalties or licenses | None |
| 4 | Consulting fees | None |
| 5 | Payment or honoraria for | None |
| Item                                                                 | Answer  |
|----------------------------------------------------------------------|---------|
| lectures, presentations, speakers bureaus, manuscript writing or educational events | None    |
| 6 Payment for expert testimony                                       | None    |
| 7 Support for attending meetings and/or travel                       | None    |
| 8 Patents planned, issued or pending                                 | None    |
| 9 Participation on a Data Safety Monitoring Board or Advisory Board  | None    |
| 10 Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None    |
| 11 Stock or stock options                                            | None    |
| 12 Receipt of equipment, materials, drugs, medical writing, gifts or other services | None    |
| 13 Other financial or non-financial interests                        | None    |

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

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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.
ICMJE DISCLOSURE FORM

Date: December 11, 2021
Your Name: Yuting Lin
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
Manuscript number (if known): 

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| 2 | Grants or contracts from any entity (if not indicated in item #1 above). | None |
| 3 | Royalties or licenses | None |
| 4 | Consulting fees | None |
| 5 | Payment or honoraria for | None |
|   | 
|---|---|
| **6** | Payment for expert testimony | None |
| **7** | Support for attending meetings and/or travel | None |
| **8** | Patents planned, issued or pending | None |
| **9** | Participation on a Data Safety Monitoring Board or Advisory Board | None |
| **10** | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None |
| **11** | Stock or stock options | None |
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Please place an “X” next to the following statement to indicate your agreement:

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Date: December 11, 2021
Your Name: Saverio Bellusci
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
Manuscript number (if known): ______________________________________________________

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|---|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1 | All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) | the Deutsche Forschungsgemeinschaft, the First Affiliated Hospital of Wenzhou Medical University |
|   | No time limit for this item. | EXC 2026, Project ID: 390649896 and SFB1213-projects A02 and A04 to Saverio Bellusci, a startup grant to Saverio Bellusci |

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

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

The author reports funding support from the Deutsche Forschungsgemeinschaft (EXC 2026, Project ID: 390649896 and SFB1213-projects A02 and A04) and the First Affiliated Hospital of Wenzhou Medical University.

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 11, 2021
Your Name: Jin-San Zhang

Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling
Manuscript number (if known): ________________________________

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|---|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1 | All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.)<br>No time limit for this item. | Wenzhou Medical University<br>a startup package to Jin-San Zhang |
| 2 | Grants or contracts from any entity (if not indicated in item #1 above).<br>Time frame: past 36 months | None |
| 3 | Royalties or licenses | None |
| 4 | Consulting fees | None |
| 5 | Payment or honoraria for | None |
|   | lectures, presentations, speakers bureaus, manuscript writing or educational events |   |
|---|---|---|
| 6 | Payment for expert testimony | None |
| 7 | Support for attending meetings and/or travel | None |
| 8 | Patents planned, issued or pending | None |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board | None |
| 10 | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None |
| 11 | Stock or stock options | None |
| 12 | Receipt of equipment, materials, drugs, medical writing, gifts or other services | None |
| 13 | Other financial or non-financial interests | None |

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The author reports funding support from Wenzhou Medical University.

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

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**ICMJE DISCLOSURE FORM**

**Date:** December 11, 2021  
**Your Name:** Kezhi Dai  
**Manuscript Title:** Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling  
**Manuscript number (if known):**

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| **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. | the Natural Science Foundation of Zhejiang Province  
LY20C070002 to Kezhi Dai |
| **2** | Grants or contracts from any entity (if not indicated in item #1 above). | None |
| **3** | Royalties or licenses | None |
| **4** | Consulting fees | None |
| **5** | Payment or honoraria for | None |

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

**Time frame: past 36 months**
|   |   |   |
|---|---|---|
|   | lectures, presentations, speakers bureaus, manuscript writing or educational events | None |
| 6 | Payment for expert testimony | None |
| 7 | Support for attending meetings and/or travel | None |
| 8 | Patents planned, issued or pending | None |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board | None |
| 10 | Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid | None |
| 11 | Stock or stock options | None |
| 12 | Receipt of equipment, materials, drugs, medical writing, gifts or other services | None |
| 13 | Other financial or non-financial interests | None |

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

*The author reports funding support from the Natural Science Foundation of Zhejiang Province (LY20C070002).*

**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 11, 2021  
Your Name: Chengshui Chen  
Manuscript Title: Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling  
Manuscript number (if known): 

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|---|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 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. | the National Natural Science Foundation of China 81770074 to Chengshui Chen  
the Science and Technology project of Zhejiang Province 2020C03067 to Chengshui Chen  
the Key Technologies Research and Development Program of China 2016YFC1304000 to Chengshui Chen |
| 2 | Grants or contracts from any entity (if not indicated in item #1 above). | None |
| 3 | Royalties or licenses | None |
|   | Description                                                                                      | None |
|---|--------------------------------------------------------------------------------------------------|------|
| 4 | Consulting fees                                                                                  |      |
| 5 | Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events |      |
| 6 | Payment for expert testimony                                                                      |      |
| 7 | Support for attending meetings and/or travel                                                      |      |
| 8 | Patents planned, issued or pending                                                                |      |
| 9 | Participation on a Data Safety Monitoring Board or Advisory Board                                 |      |
| 10| Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid |      |
| 11| Stock or stock options                                                                           |      |
| 12| Receipt of equipment, materials, drugs, medical writing, gifts or other services                  |      |
| 13| Other financial or non-financial interests                                                        |      |

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the author reports funding support from the National Natural Science Foundation of China (81770074), the Science and Technology project of Zhejiang Province (2020C03067), and the Key Technologies Research and Development Program of China (2016YFC1304000).
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