

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Instructions

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#### 1. Identifying information.

#### 2. The work under consideration for publication.

This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources that you received, either directly or indirectly (via your institution), to enable you to complete the work. Checking "No" means that you did the work without receiving any financial support from any third party -- that is, the work was supported by funds from the same institution that pays your salary and that institution did not receive third-party funds with which to pay you. If you or your institution received funds from a third party to support the work, such as a government granting agency, charitable foundation or commercial sponsor, check "Yes".

#### 3. Relevant financial activities outside the submitted work.

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#### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

#### 5. Relationships not covered above.

Use this section to report other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work.

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**Entity:** government agency, foundation, commercial sponsor, academic institution, etc.

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**Non-Financial Support:** Examples include drugs/equipment supplied by the entity, travel paid by the entity, writing assistance, administrative support, etc.

**Other:** Anything not covered under the previous three boxes

**Pending:** The patent has been filed but not issued

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**Royalties:** Funds are coming in to you or your institution due to your patent

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Alessandra

2. Surname (Last Name)  
Livraghi-Butrico

3. Date  
14-June-2018

4. Are you the corresponding author?

Yes  No

Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)  
Blue-201802-0245OC

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Are there any relevant conflicts of interest?  Yes  No

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Are there any relevant conflicts of interest?  Yes  No

### Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  Yes  No

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### Section 5. Relationships not covered above

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### Section 6. Disclosure Statement

Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.

Dr. Livraghi-Butrico has nothing to disclose.

### Evaluation and Feedback

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Richard

2. Surname (Last Name)  
Boucher

3. Date  
29-October-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Mucolytic to Treat Airway Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)  
Blue-201802-0245OC.R1

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Are there any relevant conflicts of interest?  Yes  No

If yes, please fill out the appropriate information below.

| Name of Entity  | Grant?                   | Personal Fees?                      | Non-Financial Support?   | Other?                   | Comments  |
|-----------------|--------------------------|-------------------------------------|--------------------------|--------------------------|---|
| Parion Sciences | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Parion Sciences is a privately held UNC spin-out company focused on developing therapies for CF. I am chairman of the Board of Parion and have equity in it as received monetary compensation as Board Chair. |

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### Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  Yes  No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

| Patent?         | Pending?                 | Issued?                  | Licensed?                | Royalties?               | Licensee? | Comments |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------|----------|
| Parion Sciences | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |          |

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|   |   |   |
|---|---|---|
| 1. Given Name (First Name)<br>Boya  | 2. Surname (Last Name)<br>Wang                                      | 3. Date<br>13-June-2018                     |
| 4. Are you the corresponding author?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corresponding Author's Name<br>Camille Ehre |
| 5. Manuscript Title<br>An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases |   |   |
| 6. Manuscript Identifying Number (if you know it)<br>Blue-201802-0245OC                         |   |   |

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Cameron

2. Surname (Last Name)  
Morrison

3. Date  
13-June-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-Obstructive Diseases

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| Name of Institution/Company | Grant?                   | Personal Fees?           | Non-Financial Support?              | Other?                   | Comments                                  |
|-----------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---|
| Parion Sciences Inc.        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Provided one of the tested drug compounds |

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Mr. Morrison reports non-financial support from Parion Sciences Inc., during the conduct of the study; .

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1. Given Name (First Name)  
Camille

2. Surname (Last Name)  
Ehre

3. Date  
13-June-2018

4. Are you the corresponding author?  Yes  No

5. Manuscript Title  
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|-----------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---------------------------|
| Parion Sciences, Inc        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Provided reagents to test |

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CEO of Parion Sciences, Paul Boucher, is the son of the senior author of this paper, Dr. Richard Boucher.

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### Instructions

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#### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Nicholas

2. Surname (Last Name)  
Fontana

3. Date  
25-October-2018

4. Are you the corresponding author?  Yes  No

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)  
Blue-201802-0245OC.R1

### Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest?  Yes  No

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Are there any relevant conflicts of interest?  Yes  No

### Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  Yes  No

## ICMJE Form for Disclosure of Potential Conflicts of Interest

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### Section 5. Relationships not covered above

Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

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### Section 6. Disclosure Statement

Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.

Dr. Fontana has nothing to disclose.

### Evaluation and Feedback

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**Royalties:** Funds are coming in to you or your institution due to your patent

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Scott

2. Surname (Last Name)  
Donaldson

3. Date  
15-June-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)  
Blue-201802-0245OC

### Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest?  Yes  No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

| Name of Institution/Company | Grant?                              | Personal Fees?           | Non-Financial Support?   | Other?                   | Comments |
|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|----------|
| NIH                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

### Section 3. Relevant financial activities outside the submitted work.

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Are there any relevant conflicts of interest?  Yes  No

If yes, please fill out the appropriate information below.

| Name of Entity  | Grant?                              | Personal Fees?           | Non-Financial Support?   | Other?                   | Comments       |
|-----------------|-------------------------------------|--------------------------|--------------------------|--------------------------|----------------|
| Parion Sciences | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Clinical Trial |

## ICMJE Form for Disclosure of Potential Conflicts of Interest

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### Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  Yes  No

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Dr. Donaldson reports grants from NIH, during the conduct of the study; grants from Parion Sciences, outside the submitted work; .

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Charles

2. Surname (Last Name)  
Esther Jr

3. Date  
15-June-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-Obstructive Disease

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Dr. Esther Jr reports grants from NIH, during the conduct of the study; .

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
David

2. Surname (Last Name)  
Hill

3. Date  
14-June-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

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|--|-------------------------------------|--------------------------|--------------------------|--------------------------|----------|
| The University of North Carolina - Chapel Hill | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |          |

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**Other:** Anything not covered under the previous three boxes

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

|   |   |   |
|---|---|---|
| 1. Given Name (First Name)<br>Diane   | 2. Surname (Last Name)<br>Villalon                                  | 3. Date<br>13-June-2018                     |
| 4. Are you the corresponding author?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corresponding Author's Name<br>Camille Ehre |
| 5. Manuscript Title<br>An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases |   |   |
| 6. Manuscript Identifying Number (if you know it)<br>Blue-201802-0245OC                         |   |   |

### Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest?  Yes  No

### Section 3. Relevant financial activities outside the submitted work.

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### Section 4. Intellectual Property -- Patents & Copyrights

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Dr. Villalon has nothing to disclose.

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

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The purpose of this form is to provide readers of your manuscript with information about your other interests that could influence how they receive and understand your work. The form is designed to be completed electronically and stored electronically. It contains programming that allows appropriate data display. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information. The form is in six parts.

#### 1. Identifying information.

#### 2. The work under consideration for publication.

This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources that you received, either directly or indirectly (via your institution), to enable you to complete the work. Checking "No" means that you did the work without receiving any financial support from any third party -- that is, the work was supported by funds from the same institution that pays your salary and that institution did not receive third-party funds with which to pay you. If you or your institution received funds from a third party to support the work, such as a government granting agency, charitable foundation or commercial sponsor, check "Yes".

#### 3. Relevant financial activities outside the submitted work.

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#### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

#### 5. Relationships not covered above.

Use this section to report other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work.

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**Entity:** government agency, foundation, commercial sponsor, academic institution, etc.

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**Other:** Anything not covered under the previous three boxes

**Pending:** The patent has been filed but not issued

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**Royalties:** Funds are coming in to you or your institution due to your patent

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

|   |   |   |
|---|---|---|
| 1. Given Name (First Name)<br>Barbara   | 2. Surname (Last Name)<br>Grubb                                     | 3. Date<br>26-October-2018                  |
| 4. Are you the corresponding author?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corresponding Author's Name<br>Camille Ehre |
| 5. Manuscript Title<br>An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases |   |   |
| 6. Manuscript Identifying Number (if you know it)<br>Blue-201802-0245OC.R1                      |   |   |

### Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest?  Yes  No

### Section 3. Relevant financial activities outside the submitted work.

Place a check in the appropriate boxes in the table to indicate whether you have financial relationships (regardless of amount of compensation) with entities as described in the instructions. Use one line for each entity; add as many lines as you need by clicking the "Add +" box. You should report relationships that were **present during the 36 months prior to publication**.

Are there any relevant conflicts of interest?  Yes  No

### Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  Yes  No



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### Section 5. Relationships not covered above

Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
William

2. Surname (Last Name)  
Thelin

3. Date  
25-October-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Richard Boucher

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)  
Blue-201802-0245OC

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Are there any relevant conflicts of interest?  Yes  No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

| Name of Institution/Company | Grant?                              | Personal Fees?           | Non-Financial Support?   | Other?                   | Comments  |
|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| Parion Sciences             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Parion supported this work and was grant funded for it. |

### Section 3. Relevant financial activities outside the submitted work.

Place a check in the appropriate boxes in the table to indicate whether you have financial relationships (regardless of amount of compensation) with entities as described in the instructions. Use one line for each entity; add as many lines as you need by clicking the "Add +" box. You should report relationships that were **present during the 36 months prior to publication**.

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| Patent?        | Pending?                            | Issued?                  | Licensed?                | Royalties?               | Licensee? | Comments |
|----------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-----------|----------|
| WO2014036445A3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |           |          |

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Parion Sciences provided compounds (mucolytic agents) for the proposed studies. The compounds were provided as reagents for studies outlined in the text. Parion also provided some basic data on the compounds, to demonstrate their activity.

### Evaluation and Feedback

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Lauren

2. Surname (Last Name)  
Hothem

3. Date  
13-June-2018

4. Are you the corresponding author?

Yes  No

Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

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Dr. Hothem has nothing to disclose.

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Martial

2. Surname (Last Name)  
Delion

3. Date  
13-June-2018

4. Are you the corresponding author?  Yes  No  
Corresponding Author's Name  
Camille Ehre

5. Manuscript Title  
An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

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| Name of Institution/Company | Grant?                   | Personal Fees?           | Non-Financial Support?              | Other?                   | Comments                   |
|-----------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|----------------------------|
| Parion Sciences Inc.        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Providing some tested drug |

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Dr. Delion reports non-financial support from Parion Sciences Inc., during the conduct of the study; .

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### Section 1. Identifying Information

|   |   |   |
|---|---|---|
| 1. Given Name (First Name)<br>Matthew   | 2. Surname (Last Name)<br>Markovetz                                 | 3. Date<br>13-June-2018                     |
| 4. Are you the corresponding author?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corresponding Author's Name<br>Camille Ehre |
| 5. Manuscript Title<br>An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases |   |   |
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Are there any relevant conflicts of interest?  Yes  No

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#### 2. The work under consideration for publication.

This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources that you received, either directly or indirectly (via your institution), to enable you to complete the work. Checking "No" means that you did the work without receiving any financial support from any third party -- that is, the work was supported by funds from the same institution that pays your salary and that institution did not receive third-party funds with which to pay you. If you or your institution received funds from a third party to support the work, such as a government granting agency, charitable foundation or commercial sponsor, check "Yes".

#### 3. Relevant financial activities outside the submitted work.

This section asks about your financial relationships with entities in the bio-medical arena that could be perceived to influence, or that give the appearance of potentially influencing, what you wrote in the submitted work. You should disclose interactions with ANY entity that could be considered broadly relevant to the work. For example, if your article is about testing an epidermal growth factor receptor (EGFR) antagonist in lung cancer, you should report all associations with entities pursuing diagnostic or therapeutic strategies in cancer in general, not just in the area of EGFR or lung cancer.

Report all sources of revenue paid (or promised to be paid) directly to you or your institution on your behalf over the 36 months prior to submission of the work. This should include all monies from sources with relevance to the submitted work, not just monies from the entity that sponsored the research. Please note that your interactions with the work's sponsor that are outside the submitted work should also be listed here. If there is any question, it is usually better to disclose a relationship than not to do so.

For grants you have received for work outside the submitted work, you should disclose support ONLY from entities that could be perceived to be affected financially by the published work, such as drug companies, or foundations supported by entities that could be perceived to have a financial stake in the outcome. Public funding sources, such as government agencies, charitable foundations or academic institutions, need not be disclosed. For example, if a government agency sponsored a study in which you have been involved and drugs were provided by a pharmaceutical company, you need only list the pharmaceutical company.

#### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

#### 5. Relationships not covered above.

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**Other:** Anything not covered under the previous three boxes

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)

Takafumi

2. Surname (Last Name)

Kato

3. Date

13-June-2018

4. Are you the corresponding author?

Yes  No

Corresponding Author's Name

Camille Ehre

5. Manuscript Title

An Improved Inhaled Muco-lytic to Treat Airway Muco-Obstructive Diseases

6. Manuscript Identifying Number (if you know it)

Blue-201802-0245OC

### Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest?  Yes  No

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### Section 6. Disclosure Statement

Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.

Dr. Kato has nothing to disclose.

### Evaluation and Feedback

Please visit <http://www.icmje.org/cgi-bin/feedback> to provide feedback on your experience with completing this form.



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Zachary

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Rushton

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