

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name)  
Raphael

2. Surname (Last Name)  
Gottardo

3. Date  
22-October-2019

4. Are you the corresponding author?  Yes  No

Corresponding Author's Name  
M. Juliana McElrath and Annapurna Vyakarnam

5. Manuscript Title  
BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults

6. Manuscript Identifying Number (if you know it)  
13130540-INS-CMED-RV-3

### 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

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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. Gottardo 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) George	2. Surname (Last Name) D' Souza	3. Date 23-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath and Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Dr. D' Souza 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) Greg	2. Surname (Last Name) Finak	3. Date 23-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath and Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Mr. Finak 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) Kees	2. Surname (Last Name) Franken	3. Date 23-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath and Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Dr. Franken 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) Tom	2. Surname (Last Name) Ottenhoff	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath and Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Dr. Ottenhoff 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) Asma	2. Surname (Last Name) Ahmed	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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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 6. Disclosure Statement

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Dr. Ahmed 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)

Annapurna

2. Surname (Last Name)

Vyakarnam

3. Date

22-October-2019

4. Are you the corresponding author?

Yes  No

5. Manuscript Title

BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults

6. Manuscript Identifying Number (if you know it)

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Dr.Vyakarnam 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) Bharath K	2. Surname (Last Name) Sundararaj	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Dr. Sundararaj 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) Christina	2. Surname (Last Name) Johnson	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
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Ms. Johnson has nothing to disclose.

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## ICMJE Form for Disclosure of Potential Conflicts of Interest

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### Section 1. Identifying Information

1. Given Name (First Name)  
Margaret

2. Surname (Last Name)  
McElrath

3. Date  
24-October-2019

4. Are you the corresponding author?  Yes  No

5. Manuscript Title  
BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults

6. Manuscript Identifying Number (if you know it)  
13130540-INS-CMED-RV-3

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Are there any relevant conflicts of interest?  Yes  No

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Dr. McElrath 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)

Ken

2. Surname (Last Name)

Stuart

3. Date

22-October-2019

4. Are you the corresponding author?

Yes  No

Corresponding Author's Name

M. Juliana McElrath and Annapurna Vyakarnam

5. Manuscript Title

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Dr Stuart 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) Pravat Nalini	2. Surname (Last Name) Sahoo	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
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Ms. Sahoo 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) Srabanti	2. Surname (Last Name) Rakshit	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
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Dr. Rakshit 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) Vasista	2. Surname (Last Name) Adiga	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
6. Manuscript Identifying Number (if you know it) 13130540-INS-CMED-RV-3		

### 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

## 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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- No other relationships/conditions/circumstances that present a potential conflict of interest

At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements. On occasion, journals may ask authors to disclose further information about reported relationships.

### Section 6. Disclosure Statement

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

Mr Adiga 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) Wesley	2. Surname (Last Name) Bonam	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath, Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
6. Manuscript Identifying Number (if you know it) 13130540-INS-CMED-RV-3		

### 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

## 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?

- Yes, the following relationships/conditions/circumstances are present (explain below):
- No other relationships/conditions/circumstances that present a potential conflict of interest

At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements. On occasion, journals may ask authors to disclose further information about reported relationships.

### 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. Bonam 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.

## ICMJE Form for Disclosure of Potential Conflicts of Interest

### Section 1. Identifying Information

1. Given Name (First Name) Stephen	2. Surname (Last Name) De Rosa	3. Date 22-October-2019
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name M. Juliana McElrath and Annapurna Vyakarnam
5. Manuscript Title BCG revaccination boosts adaptive polyfunctional Th1/Th17 and innate effectors in IGRA+ and IGRA- Indian adults		
6. Manuscript Identifying Number (if you know it) 13130540-INS-CMED-RV-3		

### 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

## 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?

- Yes, the following relationships/conditions/circumstances are present (explain below):
- No other relationships/conditions/circumstances that present a potential conflict of interest

At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements. On occasion, journals may ask authors to disclose further information about reported relationships.

### 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. De Rosa 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.

## **REQUIRED FILES**

*PDF of the revised manuscript that includes a preface of point-by-point responses to reviewer comments.*

PDF of revised manuscript along with response has been included.

*Text document (formatted as Word or RTF) of the revised manuscript (do not include point-by-point responses).*

Text document of revised manuscript has been included.

*PDF of the uncropped/unedited versions of all gel and blot images that appear in the manuscript and Supplement. Each image should be annotated as "Full unedited gel for Figure X"; highlight which lanes of the unedited gel correspond to those shown in the cropped images within the figures.*

Not applicable

*Conflict of interest documentation for all authors and appropriate flow diagrams and checklists as required for the Clinical Medicine category ([https://insight.jci.org/kiosks/authors#CMED\\_Requirements](https://insight.jci.org/kiosks/authors#CMED_Requirements))*

Conflict of interest documentation and flow diagrams and checklist have been uploaded.

*Provide high-resolution electronic files for all figures. See figure instructions for more information: <https://insight.jci.org/kiosks/publish/figures>*

All figures have been made according to JCI Insight guidelines.

*Provide any supplemental material referenced in the manuscript as (a) (if applicable) a PDF highlighting reviewer-requested changes; and (b) a clean, publication-quality PDF. Other acceptable formats are spreadsheets and videos.*

Supplemental data has been uploaded.

## **RECOMMENDED**

A graphical abstract -- a single schematic image that visually represents the primary findings of an article, allowing readers to easily identify the article's main message -- is strongly encouraged for all revised manuscripts. For details, see: <https://insight.jci.org/kiosks/publish/graphical>

Graphical abstract has been uploaded.

## **DATA REPORTING GUIDELINES**

*The exact number of samples (n) for each figure panel representing multiple experiments is included in the legend.*

The number of samples (n) for each experiment has been included in the Fig legend.

*For representative experiments, the number of times the experiment was conducted is stated.*

Not applicable

*The statistical test utilized is described in each figure legend.*

Yes, the statistical test used is described in each legend.

*Error bars are defined, either in Statistics or in the legends themselves; e.g., "Data represent mean  $\pm$  SEM." Variance around the mean and statistical analysis should not be presented if fewer than 3 independent samples are included.*

Plots and error bars have been defined in the Statistics section of revised manuscript. Please see lines 695-698. The section reads as 'Box-and-whisker plot depicts the interquartile range with median bars and with whiskers depicting minimum and maximum values. Scatter plots depict median values with range. In Figures 3C, 3G, 4C and 4G mean  $\pm$  SD was plotted.'

*For statistical analysis, the analysis appropriately corrects for multiple comparisons when comparing more than two groups and corrects for repeated measures when comparing multiple measurements within subjects. A statement describing inclusion/exclusion criteria is included if samples were excluded from the analysis.*

All data was corrected for multiple comparisons and this has been described in the legends.

*Graphs of quantitative data must be presented in a manner that clearly shows the distribution of data and variation. Graphs should be presented as dot plots, with the average and appropriate error bars indicated; or as box and whisker plots, with values defined in the legend (the bounds of the boxes, the lines within the boxes, the whiskers, and any outlying values). Presenting data as columns with error bars (dynamite plunger plots) is not permitted.*

All data has been presented according to JCI Insight guidelines.

*If lanes in a gel or blot image of any kind are spliced together into a composite image, they must be separated by a thin vertical dividing line, and a note must be included in the legend that the lanes were run on the same gel but were noncontiguous. A black dividing should be used for images with a grey background; a white dividing line should be used for images with a black background.*

Not applicable

*Histological panels and insets: scale bars included in the images are defined in the figure legends, or original magnification is provided in the figure legends.*

Not applicable.

*For animal models, the precise genotype, strain, number of backcrosses, sex, and age of animals studied are reported.*

Not applicable.

*A description of antibodies utilized is included in Methods, including the source and catalog/clone number for commercial antibodies or a description/reference to a description of the generation of custom antibodies.*

Description of all antibodies has been included. Please see Supplemental Table 1.

*The source of cell lines utilized is indicated.*

Not applicable.

*Large datasets for gene expression microarrays, SNP arrays, and high-throughput sequencing studies are deposited in a public repository. The accession number is provided in the text of the main manuscript. Deposition of other types of large datasets in a public repository is strongly encouraged.*

Not applicable.

## **MANUSCRIPT FORMATTING (required components)**

*Title: The title should be clear, concise, descriptive, and limited to 10 words, including conjunctions. No subtitles, colons, periods, or nonstandard abbreviations.*

The word count for the title is 15.

*Authors: full names of all authors are provided in the appropriate order.*

Yes

*Affiliations: numbered consecutively according to the order in which authors are listed; include complete locations (city, state, country).*

Yes.

*Conflict of interest statement: declare all author conflicts per the conflict-of-interest policy*

*([https://insight.jci.org/kiosks/authors#Editorial\\_Policies](https://insight.jci.org/kiosks/authors#Editorial_Policies)). If no conflict exists, state the following: "The authors have declared that no conflict of interest exists."*

A statement has been included.

*Full mailing address along with telephone and e-mail address of each corresponding author is provided.*

All information has been provided.

## **MANUSCRIPT TEXT AND REFERENCES**

*Text is organized in the following consecutive sections: Abstract, Introduction, Results, Discussion, Methods, Author contributions, Acknowledgments, References, Figure legends, Tables. The recommended text length is 9000 words; text cannot exceed 12000 words, including figure legends, tables, and references.*

The word count of revised manuscript is 11,937.

*Abstract does not exceed 250 words and does not contain primary data or reference citations.*

The abstract is 247 words long.

*All nonstandard abbreviations (i.e., abbreviations that do not appear in the Standard abbreviations list; <https://insight.jci.org/kiosks/publish/abbreviations>) are defined at first use in the abstract and again at first use in the text.*

Yes

*All gene symbols are consistent with Entrez Gene nomenclature, are italicized, and are capitalized according to biological species. See Gene Nomenclature and Style for details: <https://insight.jci.org/kiosks/publish/genestyle>.*

Yes

*A section at the end of Methods titled "Statistics" summarizes methods of statistical analysis, including the P value that was considered significant.*

Yes, all statistical details have been included.

*A brief paragraph following the statistics section titled "Study approval" provides, as appropriate, statements indicating approval of animal and/or human studies, with the official name and location of the relevant review board(s) specified; for human studies, a statement indicating receipt of written informed consent from participants or their guardians is included. For manuscripts that include patient photographs, a separate statement must be included that written informed consent was provided for pictures appearing in the manuscript.*

A section on 'Study approval' has been included.

*A paragraph following Methods titled "Author contributions" specifies how each author (identified by initials) contributed to the manuscript. Examples include designing research studies, conducting experiments, acquiring data, analyzing data, providing reagents, and writing the manuscript. Multiple contributions may be listed for a single individual, and more than one individual may be associated with a single contribution. For manuscripts with 2 or more co-first authors, the method used in assigning the authorship order among co-first authors must be stated.*

A paragraph detailing author contribution has been included.

*Unpublished data, manuscripts in preparation or under review, and personal communications are cited in the text as follows: "[author's name], unpublished observations." Authors citing the unpublished observations of someone outside of their research team must submit written permission to cite the unpublished results.*

Not applicable.

*References are numbered consecutively according to the order in which they are first cited in the text and are cited in parentheses, e.g., "(1, 2)" or "(4-10)."*

References have been numbered according to JCI Insight guidelines.

*Manuscripts accepted for publication or published online are treated as numbered references.*

References have been prepared according to JCI Insight guidelines.

*Figures and tables are cited in numerical order; the words "Figure" and "Table" are spelled out.*

Yes.

*Complete manufacturer names are provided for each proprietary item used in experiments.*

Yes.

*References are styled according to the Instructions for Authors (<https://insight.jci.org/kiosks/authors>), with journal titles styled per PubMed.*

References have been prepared according to JCI Insight guidelines.

*Terms such as in vivo, in vitro, etc., are not italicized.*

Yes.

## **FIGURES, LEGENDS AND TABLES**

*Figure parts are labeled with capital letters: A, B, C, etc. Subparts within figures (e.g., Figure 1B cannot have parts I and II) are not permitted.*

Yes.

*Figure legends do not exceed 400 words.*

All figure legends are within 400 words.

*Usage of terms within the figure legends is consistent with that in the figures themselves; the use of abbreviations is consistent throughout the figures and legends.*

Yes.

*Tables are included with the submitted Word document and presented in Microsoft Word's table format (i.e., not pasted as an image from another application).*

Yes.

*Column headings in tables apply to all values throughout the column; a new row of column headings may not be used midway through a table.*

Tables have been prepared according to JCI Insight guidelines.