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**Royalties**: Funds are coming in to you or your institution due to your patent.
Section 1. Identifying Information

1. Given Name (First Name)  
   Alessio

2. Surname (Last Name)  
   Mazzoni

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   ☐ Yes  ☑ No  
   Corresponding Author's Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
   138554-JCI

Section 2. The Work Under Consideration for Publication

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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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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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Dr. Mazzoni has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name) Lorenzo
2. Surname (Last Name) Salvati
3. Date 18 April 2020
4. Are you the corresponding author? ☑ Yes ☐ No
   Corresponding Author’s Name Francesco Annunziato
5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels
6. Manuscript Identifying Number (if you know it)
   138554-JCI

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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

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Dr. Salvati has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)  Laura
2. Surname (Last Name) Maggi
3. Date 18 April 2020

4. Are you the corresponding author?  ☑ No
   Corresponding Author’s Name Francesco Annunziato

5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)
   138554-JCI

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Dr. Maggi has nothing to disclose.

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**Section 1. Identifying Information**

1. Given Name (First Name)  
   Manuela

2. Surname (Last Name)  
   Capone

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   Yes  ☑️  No

Corresponding Author's Name  
Francesco Annunziato

5. Manuscript Title  
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
138554-ICI

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Yes  ☑️  No

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

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Section 6. Disclosure Statement

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Dr. Capone has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)  
   Anna

2. Surname (Last Name)  
   Vanni

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   □ Yes  ☑ No

Corresponding Author’s Name  
Francesco Annunziato

5. Manuscript Title  
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**Issued:** The patent has been issued by the agency

**Licensed:** The patent has been licensed to an entity, whether earning royalties or not

**Royalties:** Funds are coming in to you or your institution due to your patent
Section 1. Identifying Information

1. Given Name (First Name)  
Michele

2. Surname (Last Name)  
Spinicci

3. Date  
18 April 2020

4. Are you the corresponding author?  
☐ Yes  □ No  
Corresponding Author’s Name  
Francesco Annunziato

5. Manuscript Title  
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
138554-JCI

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
Section 5. Relationships not covered above

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Dr. Spinicci has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)  Jessica
2. Surname (Last Name)  Mencarini
3. Date  18 April 2020

4. Are you the corresponding author?  ☐ Yes  ☑ No
   Corresponding Author's Name  Francesco Annunziato

5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)
   138554-JCI

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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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Dr. Mencarini has nothing to disclose.

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<th>3. Date</th>
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<tbody>
<tr>
<td>Roberto</td>
<td>Caporale</td>
<td>18 April 2020</td>
</tr>
</tbody>
</table>

4. Are you the corresponding author?  
   - Yes  
   - No  

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
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Are there any relevant conflicts of interest?  
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Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  
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Dr. Caporale has nothing to disclose

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Peruzzi

1
**Section 1. Identifying Information**

1. Given Name (First Name)  
   Benedetta  

2. Surname (Last Name)  
   Peruzzi  

3. Date  
   18 April 2020  

4. Are you the corresponding author?  
   □ Yes  
   ☑ No  

   Corresponding Author’s Name:  
   Francesco Annunziato  

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels  

6. Manuscript Identifying Number (if you know it)  
   138554-JCI  

---

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

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Are there any relevant conflicts of interest?  
   □ Yes  
   ☑ No  

---

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

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   □ 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  

Peruzzi
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Dr. Peruzzi has nothing to disclose

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Antonelli 1
Section 1. Identifying Information

1. Given Name (First Name)  
   Alberto

2. Surname (Last Name)  
   Antonelli

3. Date  
   20-April-2020

4. Are you the corresponding author?  
   ☑ No

   Corresponding Author’s Name  
   Francesco Anunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL6 serum levels

6. Manuscript Identifying Number (if you know it)

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   ☑ No

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.

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

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Dr. Antonelli reports personal fees from Accelerate diagnostics, personal fees from Arrow diagnostics, personal fees from Menarini, personal fees from Seegene, non-financial support from SymCel, outside the submitted work.

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**Section 1. Identifying Information**

1. Given Name (First Name)  Michele  
2. Surname (Last Name)  Trotta  
3. Date  18 April 2020  
4. Are you the corresponding author?  No  
5. Manuscript Title  Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels  
6. Manuscript Identifying Number (If you know it)  138554-JCI  

**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.)?  No  

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

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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?  No
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

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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. Trotta has nothing to disclose.

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- **Royalties:** funds are coming in to you or your institution due to your patent
Section 1. Identifying Information

1. Given Name (First Name) Lorenzo
2. Surname (Last Name) Zammarchi
3. Date 18 April 2020
4. Are you the corresponding author? □ Yes ☑ No 
Corresponding Author’s Name Francesco Annunziato

5. Manuscript Title
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (If you know it) 138554-ICJ

Section 2. The Work Under Consideration for Publication

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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

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Dr. Zammarchi has nothing to disclose.

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**Section 1. Identifying Information**

1. Given Name (First Name)  
Luca

2. Surname (Last Name)  
Ciani

3. Date  
23-June-1991

4. Are you the corresponding author?  
☐ Yes  ☑ No

Corresponding Author's Name  
Francesco Annunziato

5. Manuscript Title  
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
138554-JCI

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Are there any relevant conflicts of interest?  
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Are there any relevant conflicts of interest?  
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**Section 4. Intellectual Property -- Patents & Copyrights**

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### Section 1. Identifying Information

<table>
<thead>
<tr>
<th>1. Given Name (First Name)</th>
<th>2. Surname (Last Name)</th>
<th>3. Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leonardo</td>
<td>Gori</td>
<td>21 April 2020</td>
</tr>
</tbody>
</table>

4. Are you the corresponding author? □ Yes  ✔ No

5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)
   138554-JCI

### 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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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
Section 5. Relationships not covered above

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Section 1. Identifying Information

1. Given Name (First Name)  
   Chiara

2. Surname (Last Name)  
   Lazzeri

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   ☐ Yes  ☑ No

   Corresponding Author’s Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (If you know it)  
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Section 1. Identifying Information

1. Given Name (First Name)  
   Andrea

2. Surname (Last Name)  
   Matucci

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   ✔ No

   Corresponding Author's Name  
   Francesco Annunziato

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Dr. Matteucci has nothing to disclose.

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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.**

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

Vultaggio
Section 1. Identifying Information

1. Given Name (First Name)  
Alessandra

2. Surname (Last Name)  
Vultaggio

3. Date  
20 April 2020

4. Are you the corresponding author?  
☐ Yes  ☑ No  
Corresponding Author’s Name

5. Manuscript Title  
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)

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
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

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Dr. Vultaggio has nothing to disclose.

Evaluation and Feedback

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**Section 1. Identifying Information**

1. Given Name (First Name)  
   Oliviero

2. Surname (Last Name)  
   Rossi

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   [ ] Yes  [x] No  
   Corresponding Author’s Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
   138554-JCI

---

**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  [x] No

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

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[ ] Yes  [ ] No

---

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

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  
[ ] Yes  [x] 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. Rossi 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
Section 1. Identifying Information

1. Given Name (First Name)  
   Fabio

2. Surname (Last Name)  
   Almerigogna

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   ☑ Yes  ☐ No

   Corresponding Author's Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (If you know it)  
   138554-JCI

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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   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
Section 5. Relationships not covered above

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Section 6. Disclosure Statement

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Dr. Almerigogna 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
Section 1. Identifying Information

1. Given Name (First Name) Paola
2. Surname (Last Name) Parronchi
3. Date 18 April 2020
4. Are you the corresponding author? Yes ☐ No ☒
   Corresponding Author's Name Francesco Annunziato
5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels
6. Manuscript Identifying Number (if you know it)
   138554-JC

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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Are there any relevant conflicts of interest? Yes ☒ No ☐

If yes, please fill out the appropriate information below:

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<th>Name of Entity</th>
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<th>Personal Fees</th>
<th>Non-Financial Support</th>
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<td></td>
</tr>
</tbody>
</table>

Section 4. Intellectual Property -- Patents & Copyrights

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

Parronchi

2
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):

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Section 6. Disclosure Statement

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Dr. Parronchi reports personal fees from Novartis, personal fees from GSK, outside the submitted work.

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Section 1. Identifying Information

1. Given Name (First Name)  
Paolo

2. Surname (Last Name)  
Fontanari

3. Date  
26 April 2020

4. Are you the corresponding author?  
☐ Yes  ☑ No

Corresponding Author’s Name  
Francesco Annunziato

5. Manuscript Title  
Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (If you know it)  
138554-JCI

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Are there any relevant 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?  
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Dr. Fontanari has nothing to disclose.

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   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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- **Royalties:** Funds are coming in to you or your institution due to your patent
Section 1. Identifying Information

1. Given Name (First Name)  
   Federico

2. Surname (Last Name)  
   Lavorini

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   ❏ Yes  ❏ No
   Corresponding Author’s Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
   138554-KCI

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

If yes, please fill out the appropriate information below.

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</table>

Lavorini
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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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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Dr. Lavorini reports personal fees from AstraZeneca, from Boehringer Ingelheim, grants and personal fees from Chiesi Pharmaceuticals, personal fees from CIPLA, grants and personal fees from GSK, grants and personal fees from Menarini International, grants and personal fees from Mundipharma, personal fees from Orion Pharma, grants and personal fees from Trudell International, personal fees from Valeas, outside the submitted work.
Please visit http://www.icmje.org/cgi-bin/feedback to provide feedback on your experience with completing this form.
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1. Given Name (First Name)  
adriano  

2. Surname (Last Name)  
peris  

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Francesco Annunziato  

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peris
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Dr. peris has nothing to disclose.

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Rossolini
Section 1. Identifying Information

1. Given Name (First Name)  
   Gian Maria

2. Surname (Last Name)  
   Rossolini

3. Date  
   19-April-2020

4. Are you the corresponding author?  
   ☐ Yes  ☑ No

   Corresponding Author’s Name
   Francesco Annunziato

5. Manuscript Title
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### 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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1. Given Name (First Name)  
   Alessandro

2. Surname (Last Name)  
   Bartoloni

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   No  
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## Section 1. Identifying Information

1. Given Name (First Name)   
   Sergio

2. Surname (Last Name)  
   Romagnani

3. Date  
   18 April 2020

4. Are you the corresponding author?  
   [ ] Yes  [x] No  
   Corresponding Author’s Name  
   Francesco Annunziato

5. Manuscript Title  
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels

6. Manuscript Identifying Number (if you know it)  
   138554-JCI

## 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?  
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Do you have any patents, whether planned, pending or issued, broadly relevant to the work?  
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Dr. Romagnani has nothing to disclose.

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Liotta
Section 1. Identifying Information

1. Given Name (First Name) Francesco
2. Surname (Last Name) Liotta
3. Date 18 April 2020
4. Are you the corresponding author? ☑ No
5. Manuscript Title
   Cytotoxic impairment in COVID-19 patients associates with disease severity and high IL-6 serum levels
6. Manuscript Identifying Number (if you know it)
   138554-JCI

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? ☑ No

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Dr. Liotta has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)  
Francesco

2. Surname (Last Name)  
Annunziato

3. Date  
18 April 2020

4. Are you the corresponding author?  
☑ Yes □ No

5. Manuscript Title  
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<th>2. Surname (Last Name)</th>
<th>3. Date</th>
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<tr>
<td>Lorenzo</td>
<td>Cosmi</td>
<td>18 April 2020</td>
</tr>
</tbody>
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   Francesco Annunziato

5. Manuscript Title  
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Dr. Cosmi has nothing to disclose.

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