ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name): Adam
2. Surname (Last Name): Cohen
3. Date: 12-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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
Novartis	☑	☐	☐	☐	

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.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Bristol-Meyers Squibb	☑	☑	☐	☐	
Celgene	☐	☑	☐	☐	
Kite Pharma	☐	☑	☐	☐	

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Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Janssen	☐	☑	☐	☐	
Seattle Genetics	☐	☑	☐	☐	
Oncopeptides	☐	☑	☐	☐	
Takeda	☐	☑	☐	☐	
Array Biopharma	☐	☑	☐	☐	
GlaxoSmithKline	☐	☑	☐	☐	

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
17/042,129	☑	☐	☑	☑	Novartis	IP licensed by the University of Pennsylvania to Novartis.
16/050,112	☑	☐	☑	☑	Novartis	IP licensed by the University of Pennsylvania to Novartis.
62/586,834	☑	☐	☐	☐	Novartis	IP licensed by the University of Pennsylvania to Novartis.
62/593,043	☑	☐	☐	☐	Novartis	IP licensed by the University of Pennsylvania to Novartis.
62/752,010	☑	☐	☐	☐	Novartis	IP licensed by the University of Pennsylvania to Novartis.

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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. Cohen reports grants from Novartis, during the conduct of the study; grants and personal fees from Bristol-Meyers Squibb, personal fees from Celgene, personal fees from Kite Pharma, personal fees from Janssen, personal fees from Seattle Genetics, personal fees from Oncopeptides, personal fees from Takeda, personal fees from Array Biopharma, personal fees from GlaxoSmithKline, outside the submitted work; In addition, Dr. Cohen has a patent 17/042,129 with royalties paid to Novartis, a patent 16/050,112 with royalties paid to Novartis, a patent 62/586,834 pending to Novartis, a patent 62/593,043 pending to Novartis, and a patent 62/752,010 pending to Novartis.

Evaluation and Feedback

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

ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name): Alfred
2. Surname (Last Name): Garfall
3. Date: 12-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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
Novartis	☑	☐	☐	☐	Research funding (institution)

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.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Kite Pharma	☐	☑	☐	☐	Advisory board
Tmunity	☑	☑	☐	☐	Research funding, advisory board
Amgen	☑	☐	☐	☐	Research funding

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ICMJE Form for Disclosure of Potential Conflicts of Interest

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
15/757123 "Biomarkers predictive of cytokine release syndrome"	☑	☐	☑	☑	Novartis	
62/752010; 62/593043 "BCMA-targeting Chimeric Antigen Receptor, and uses thereof"	☑	☐	☐	☐		
62/586834; 62/588836 "BCMA-targeting Chimeric Antigen Receptor, CD19-targeting Chimeric Antigen Receptor, and Combination Therapies"	☑	☐	☐	☐		I waived my financial interest in this patent application.

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. Garfall reports grants from Novartis, during the conduct of the study; personal fees from Kite Pharma, grants and personal fees from Tmunity, grants from Amgen, outside the submitted work; In addition, Dr. Garfall has a patent 15/757123
"Biomarkers predictive of cytokine release syndrome" with royalties paid to Novartis, a patent 62/752010; 62/593043
"BCMA-targeting Chimeric Antigen Receptor, and uses thereof" pending, and a patent 62/586834; 62/588836
"BCMA-targeting Chimeric Antigen Receptor, CD19-targeting Chimeric Antigen Receptor, and Combination Therapies" pending.

Evaluation and Feedback

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ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

Stadtmauer

ICMJE Form for Disclosure of Potential Conflicts of Interest

Instructions

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.

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.

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.

Definitions.

Entity: government agency, foundation, commercial sponsor, academic institution, etc.
Grant: A grant from an entity, generally [but not always] paid to your organization
Personal Fees: Monies paid to you for services rendered, generally honoraria, royalties, or fees for consulting , lectures, speakers bureaus, expert testimony, employment, or other affiliations
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
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

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
janssen	☐	☑	☐	☐	consultant
sanofi	☐	☑	☐	☐	consultant
celgene	☐	☑	☐	☐	consultant

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
BCMA CAR	☑	☐	☐	☐		BCMA CAR + CD19 CAR

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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ICMJE Form for Disclosure of Potential Conflicts of Interest

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. stadtmauer reports grants from novartis, during the conduct of the study; personal fees from takeda, personal fees from novartis, personal fees from amgen, personal fees from janssen, personal fees from sanofi, personal fees from celgene, outside the submitted work; In addition, Dr. stadtmauer has a patent BCMA CAR pending.

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): Jan
2. Surname (Last Name): Melenhorst
3. Date: 14-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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
Novartis	☑	☐	☐	☐	Research grant

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

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.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Patent?	Pending?	Issued?	Licensed?	Royalties?	Licensee?	Comments
PCT/US2017/035778	☑	☐	☑	☑	Novartis	title of patent: THERAPEUTIC REGIMENS FOR CHIMERIC ANTIGEN RECEPTOR (CAR)-EXPRESSING CELLS

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. Melenhorst reports grants from Novartis, during the conduct of the study; In addition, Dr. Melenhorst has a patent PCT/US2017/035778 with royalties paid to Novartis.

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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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name): Simon
2. Surname (Last Name): Lacey
3. Date: 13-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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	
Novartis	☑	☐	☐	☐		

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	
Novartis	☑	☐	☐	☑	Licensed IP	
Tmunity	☑	☐	☐	☐		

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ICMJE Form for Disclosure of Potential Conflicts of Interest

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	
PCT/US2017/035778	☑	☐	☑	☑	Novartis		

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. Lacey reports grants from Novartis, during the conduct of the study; grants and other from Novartis, grants from Tmunity, outside the submitted work; In addition, Dr. Lacey has a patent PCT/US2017/035778 with royalties paid to Novartis.

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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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Eric
2. Surname (Last Name) Lancaster
3. Date 15-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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
Grifols INC	✓				
Merck Inc.		✓			consulting
Novartis Inc.		✓			consulting

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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ICMJE Form for Disclosure of Potential Conflicts of Interest

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
Patents related to CART and its toxicity	☑	☐	☑	☑	University of Pennsylvania / novartis	I think this is pending. Have received < $10 royalities

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

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

Dr. Lancaster reports grants from Grifols INC, personal fees from Merck Inc., personal fees from Novartis Inc., outside the submitted work; In addition, Dr. Lancaster has a patent Patents related to CART and its toxicity with royalties paid to University of Pennsylvania / novartis
.

Evaluation and Feedback

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

ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name): Dan
2. Surname (Last Name): Vogl
3. Date: 14-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Karyopharm	☐	☑	☐	☐	Consulting
Amgen	☐	☑	☐	☐	Consulting
Millennium/Takeda	☐	☑	☐	☐	Consulting
Celgene	☐	☑	☐	☐	Consulting
GSK	☑	☐	☐	☐	Research support

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ICMJE Form for Disclosure of Potential Conflicts of Interest

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?

☐ 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. Vogl reports personal fees from Karyopharm , personal fees from Amgen, personal fees from Millennium/Takeda, personal fees from Celgene, grants from GSK, outside the submitted work; .

Evaluation and Feedback

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

ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Brendan
2. Surname (Last Name) Weiss
3. Date 13-November-2018

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

Corresponding Author's Name Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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
Novartis	☑	☐	☐	☐	

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.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Novartis	☐	☑	☐	☐	Consulting
Janssen	☑	☐	☐	☐	Research grant
Prothena	☑	☐	☐	☐	Research grant

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Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Alnylam	☐	☑	☐	☐	Consulting

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

I became an employee of Janssen Research and Development in October 2017.

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Dr. Weiss reports grants from Novartis, during the conduct of the study; personal fees from Novartis, grants from Janssen, grants from Prothena, personal fees from Alnylam, outside the submitted work; and I became an employee of Janssen Research and Development in October 2017.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Karen
2. Surname (Last Name) Dengel
3. Date 13-November-2018

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

Corresponding Author's Name Adam D. Cohen, MD

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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

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Karen Dengel has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name) Anne Marie
2. Surname (Last Name) Nelson
3. Date 14-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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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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 1. Identifying Information

1. Given Name (First Name) Gabriela
2. Surname (Last Name) Plesa
3. Date 18-January-2019

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

Corresponding Author's Name Adam D. Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma

6. Manuscript Identifying Number (if you know it)

Section 2. The Work Under Consideration for Publication

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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
Novartis	☑	☐	☐	☐	

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

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Dr. Plesa reports grants from Novartis, during the conduct of the study; .

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Section 1. Identifying Information

1. Given Name (First Name): Fang
2. Surname (Last Name): Chen
3. Date: 14-November-2018

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

Corresponding Author's Name: Adam D. Cohen, MD

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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

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
PCT/US2017/035778	☑	☐	☑	☑	Novartis	THERAPEUTIC REGIMENS FOR CHIMERIC ANTIGEN RECEPTOR (CAR)-EXPRESSING CELLS

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Dr. Chen reports In addition, Dr. Chen has a patent PCT/US2017/035778 with royalties paid to Novartis.

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Section 1. Identifying Information

1. Given Name (First Name): Megan
2. Surname (Last Name): Davis
3. Date: 12-November-2018

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

Corresponding Author's Name: Adam D. Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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

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
artificial antigen presenting cells and uses there of	☐	☑	☑	☑	Novartis	

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Dr. Davis reports In addition, Dr. Davis has a patent artificial antigen presenting cells and uses there of with royalties paid to Novartis.

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Section 1. Identifying Information

1. Given Name (First Name) Wei-Ting
2. Surname (Last Name) Hwang
3. Date 12-November-2018

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

Corresponding Author's Name Adam D. Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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Dr. Hwang has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name): Regina
2. Surname (Last Name): Young
3. Date: 13-November-2018

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

Corresponding Author's Name: Adam D. Cohen, MD

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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
PENN/ NVS Alliance	☑	☐	☐	☐	Sponsored research

Section 3. Relevant financial activities outside the submitted work.

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

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Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
PENN/ NVS Alliance	☐	☐	☐	☐	Research funds and salary support

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Dr. Young reports grants from PENN/ NVS Alliance, during the conduct of the study; .

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Section 1. Identifying Information

1. Given Name (First Name) Jennifer
2. Surname (Last Name) Brogdon
3. Date 19-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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

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Section 1. Identifying Information

1. Given Name (First Name) Randi
2. Surname (Last Name) Isaacs
3. Date 18-January-2019

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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

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Section 1. Identifying Information

1. Given Name (First Name) Iulian
2. Surname (Last Name) Pruteanu-Malinici
3. Date 14-November-2018

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

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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

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Section 1. Identifying Information

1. Given Name (First Name): Don
2. Surname (Last Name): Siegel
3. Date: 14-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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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

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Poseida Therapeutics	☐	☐	☐	☑	Scientific Advisory Board

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. Siegel reports other from Poseida Therapeutics, outside the submitted work; .

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Section 1. Identifying Information

1. Given Name (First Name): Bruce
2. Surname (Last Name): Levine
3. Date: 15-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

6. Manuscript Identifying Number (if you know it)

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

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Name of Institution/Company	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Novartis	☑	☐	☐	☐	

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
Avectas	☐	☑	☐	☐	Scientific Advisory Board
Brammer Bio	☐	☑	☐	☐	Scientific Advisory Board
Incysus	☐	☑	☐	☐	Scientific Advisory Board

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Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
CRC Oncology/Cure Genetics	☐	☑	☐	☐	Consulting/Scientific Advisory Board
Novartis	☐	☑	☐	☐	Consulting
Terumo	☐	☑	☐	☐	Consulting
Draper Labs	☐	☑	☐	☐	Honorarium
Tmunity Therapeutics	☐	☐	☐	☑	Equity

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
Methods for treatment of cancer (US 8906682) (US 8916381)(US 9101584)	☐	☑	☑	☑	University of Pennsylvania	
Compositions for treatment of cancer (US 8911993) (US 9102761) (US 9102760)	☐	☑	☑	☑	University of Pennsylvania	
Method for treating chronic lymphocytic leukemia (CC) (US 9161971)	☐	☑	☑	☑	University of Pennsylvania	
Compositions and methods for treatment of cancer (US 9464140)(US 9518123) (US 9481728)(US 9540445)	☐	☑	☑	☑	University of Pennsylvania	
Use of chimeric antigen receptor-modified T cells to treat cancer (US 9328156) (US 9499629)	☐	☑	☑	☑	University of Pennsylvania	
Methods for assessing the suitability of transduced T cells for administration (US 9572836)	☐	☑	☑	☑	University of Pennsylvania	

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Dr. Levine reports grants from Novartis, during the conduct of the study; personal fees from Avectas, personal fees from Brammer Bio, personal fees from Incysus, personal fees from CRC Oncology/Cure Genetics, personal fees from Novartis, personal fees from Terumo, personal fees from Draper Labs, other from Tmunity Therapeutics, outside the submitted work; In addition, Dr. Levine has a patent Methods for treatment of cancer (US 8906682) (US 8916381)(US 9101584) with royalties paid to University of Pennsylvania, a patent Compositions for treatment of cancer (US 8911993) (US 9102761) (US 9102760) with royalties paid to University of Pennsylvania, a patent Method for treating chronic lymphocytic leukemia (CC) (US 9161971) with royalties paid to University of Pennsylvania, a patent Compositions and methods for treatment of cancer (US 9464140)(US 9518123) (US 9481728)(US 9540445) with royalties paid to University of Pennsylvania, a patent Use of chimeric antigen receptor-modified T cells to treat cancer (US 9328156) (US 9499629) with royalties paid to University of Pennsylvania, and a patent Methods for assessing the suitability of transduced T cells for administration (US 9572836) with royalties paid to University of Pennsylvania.

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Section 1. Identifying Information

1. Given Name (First Name): Carl
2. Surname (Last Name): June
3. Date: 13-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in...

6. Manuscript Identifying Number (if you know it)

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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Novartis	☑	☐	☐	☐		

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

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Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Novartis	☑	☐	☐	☐	Alliance with Novartis and the University of Pennsylvania to develop CAR T cell therapy, which supported the clinical trial described in this article. The June laboratory received $2.3M, 3.1M, 3.4M, 3.2M 3.3M and 2.7M in 2012, 2013, 2014, 2015, 2016 and 2017 for research and clinical trials conducted at the University of Pennsylvania.

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
9464140, 9161971, 8975071, 8916381 and 8906682.	☐	☑	☑	☑	Novartis	IP licensed by the University of Pennsylvania to Novartis. I received $393,142 and $288,895 in royalties from the University of Pennsylvania in 2015 and 2016.

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

Carl June is a scientific founder of Tmunity Therapeutics, a biotech dedicated to developing engineered T cells for therapy of cancer, infections and autoimmunity. I have founders stock but no income from Tmunity.

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Dr. June reports grants from Novartis, during the conduct of the study; grants from Novartis, outside the submitted work; In addition, Dr. June has a patent 9464140, 9161971, 8975071, 8916381 and 8906682. with royalties paid to Novartis and Carl June is a scientific founder of Tmunity Therapeutics, a biotech dedicated to developing engineered T cells for therapy of cancer, infections and autoimmunity. I have founders stock but no income from Tmunity. .

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Section 1. Identifying Information

1. Given Name (First Name): Michael
2. Surname (Last Name): Milone
3. Date: 12-November-2018

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

Corresponding Author's Name: Adam Cohen

5. Manuscript Title
Clinical and biologic activity of B-cell Maturation Antigen-specific Chimeric Antigen Receptor T cells (CART-BCMA) in relapsed/refractory multiple myeloma: a single-centre, open-label, phase 1 trial

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

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Novartis	☑	☐	☐	☐	

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

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Patent?	Pending?	Issued?	Licensed?	Royalties?	Licensee?	Comments
PCT/US2015/041378	✓	☐	✓	☐	Novartis	

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Dr. Milone reports grants from Novartis, during the conduct of the study; In addition, Dr. Milone has a patent application (PCT/US2015/041378), which is licensed to Novartis.

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