

ICMJE DISCLOSURE FORM

Date: Feb. 28th, 2023

Your Name: Michael D Kaytor

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

The following questions apply to the author's relationships/activities/interests as they relate to the current manuscript only.

The author's relationships/activities/interests should be defined broadly. For example, if your manuscript pertains to the epidemiology of hypertension, you should declare all relationships with manufacturers of antihypertensive medication, even if that medication is not mentioned in the manuscript.

In item #1 below, report all support for the work reported in this manuscript without time limit. For all other items, the time frame for disclosure is the past 36 months.

		Name all entities with whom you have this relationship or indicate none (add rows as needed)	Specifications/Comments (e.g., if payments were made to you or to your institution)
Time frame: Since the initial planning of the work			
1	All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item.	None	
		National Institutes of Health, National Cancer Institute	SBIR (Small Business Innovation Research) award number HHSN261201200078C) to Humanetics Corporation (Minneapolis, MN)
Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	None	
		Regenerative Medicine Minnesota	Biobusiness Development Grant, award number RMM 012521 BD 007 to Humanetics Corporation (Minneapolis, MN)
		Department of the Army – USAMRAA (CDMRP)	Peer Reviewed Medical Research Program Expansion Award, award number W81XWH-21-1-0010 to Humanetics Corporation (Minneapolis, MN)

		National Institutes of Health, National Institute of Allergy and Infectious Diseases	Contract number HHSN272201800011C to Humanetics Corporation (Minneapolis, MN)
		Department of Defense, Joint Warfighter Medical Research Program	Award number W81XWH-19-2-0060 to Humanetics Corporation (Minneapolis, MN)
		Department of the Army – USAMRAA (CDMRP)	PRMRP Technology/Therapeutic Development Award No. W81XWH-17-1-0584 to Humanetics Corporation (Minneapolis, MN)
3	Royalties or licenses	<input checked="" type="checkbox"/> None	
4	Consulting fees	<input checked="" type="checkbox"/> None	
5	Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events	<input checked="" type="checkbox"/> None	
6	Payment for expert testimony	<input checked="" type="checkbox"/> None	
7	Support for attending meetings and/or travel	<input checked="" type="checkbox"/> None	
8	Patents planned, issued or pending	<input type="checkbox"/> None US 10729674 US 10314812 US 10220018 US 11129894 PCT/US2021/055271 PCT/US2021/025939 PCT/US2022/011964	Humanetics Patent Humanetics Patent Humanetics Patent Humanetics Patent Humanetics PCT application Humanetics PCT application Humanetics PCT application
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None	
11	Stock or stock options	<input type="checkbox"/> None Humanetics Corporation (Minneapolis, MN)	Employee benefit
12	Receipt of equipment, materials, drugs, medical	<input checked="" type="checkbox"/> None	

	writing, gifts or other services		
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

Michael Kaytor is a current employee of Humanetics Corporation and is an inventor on 4 Humanetics Patents and 3 Humanetics PCT applications. The research presented in this manuscript was financially support by SBIR grant HHSN261201200078C, of which Michael Kaytor was the PI on the award. Michael Kaytor is supported by 5 additional grants that were award to Humanetics Corporation, however, none of these grants supported, including financially, the research presented in this manuscript.

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

X I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: 2/28/2023

Your Name: Artur A Serebrenik

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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		National Institutes of Health, National Cancer Institute	SBIR (Small Business Innovation Research) award number HHSN261201200078C) to Humanetics Corporation (Minneapolis, MN)
Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	None	
		Regenerative Medicine Minnesota	Biobusiness Development Grant, award number RMM 012521 BD 007 to Humanetics Corporation (Minneapolis, MN)
		Department of the Army – USAMRAA (CDMRP)	Peer Reviewed Medical Research Program Expansion Award, award number W81XWH-21-1-0010 to Humanetics Corporation (Minneapolis, MN)

		National Institutes of Health, National Institute of Allergy and Infectious Diseases	Contract Expansion Award, contract number HHSN272201800011C-P00009 to Humanetics Corporation (Minneapolis, MN)
		Department of Defense, Joint Warfighter Medical Research Program	Award number W81XWH-19-2-0060 to Humanetics Corporation (Minneapolis, MN)
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8	Patents planned, issued or pending	<input type="checkbox"/> None PCT/US2021/025939 PCT/US2022/011964	Humanetics PCT application Humanetics PCT application
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None	
11	Stock or stock options	<input type="checkbox"/> None Humanetics Corporation (Minneapolis, MN)	Employee benefit
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

Artur Serebrenik is a current employee of Humanetics Corporation and is an inventor on 2 Humanetics PCT applications. The research presented in this manuscript was financially support by SBIR grant HHSN261201200078C. Artur Serebrenik is supported by 5 additional grants that were award to Humanetics Corporation, however, none of these grants supported, including financially, the research presented in this manuscript.

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

X I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: 3/15/2023

Your Name: Karen Lapanowski

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript Number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

The author's relationships/activities/interests should be defined broadly. For example, if your manuscript pertains to the epidemiology of hypertension, you should declare all relationships with manufacturers of antihypertensive medication, even if that medication is not mentioned in the manuscript.

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Time frame: past 36 months								
2	Grants or contracts from any entity (if not indicated in item #1 above).	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; height: 40px; margin-top: 5px;"> <tr><td style="width: 60%;"></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>						
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4	Consulting fees	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									
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6	Payment for expert testimony	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									
7	Support for attending meetings and/or travel	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									
8	Patents planned, issued or pending	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>									

		Name all entities with whom you have this relationship or indicate none (add rows as needed)	Specifications/Comments (e.g., if payments were made to you or to your institution)						
11	Stock or stock options	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>							
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>							
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 15px;"></td><td style="width: 50%;"></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td></tr> </table>							

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: Jan. 19th, 2023

Your Name: Debra McFall

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	<input checked="" type="checkbox"/> None	
3	Royalties or licenses	<input checked="" type="checkbox"/> None	
4	Consulting fees	<input checked="" type="checkbox"/> None	

5	Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events	<input checked="" type="checkbox"/> None	
6	Payment for expert testimony	<input checked="" type="checkbox"/> None	
7	Support for attending meetings and/or travel	<input checked="" type="checkbox"/> None	
8	Patents planned, issued or pending	<input checked="" type="checkbox"/> None	
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None	
11	Stock or stock options	<input checked="" type="checkbox"/> None	
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

None.

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: Jan. 19th, 2023

Your Name: Matthew Jones

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	<input checked="" type="checkbox"/> None	
3	Royalties or licenses	<input checked="" type="checkbox"/> None	
4	Consulting fees	<input checked="" type="checkbox"/> None	

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6	Payment for expert testimony	<input checked="" type="checkbox"/> None	
7	Support for attending meetings and/or travel	<input checked="" type="checkbox"/> None	
8	Patents planned, issued or pending	<input checked="" type="checkbox"/> None	
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10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None	
11	Stock or stock options	<input checked="" type="checkbox"/> None	
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

None.

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: Feb. 28th, 2023

Your Name: Benjamin Movsas

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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1	All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item.	<u> </u> None	
		Varian Medical Systems, Palo Alto, CA	Payments to support department research unrelated to current manuscript.
		ViewRay, Inc., Oakwood, OH	Payments to support department research unrelated to current manuscript.
		Philips, Amsterdam, Netherlands	Payments to support department research unrelated to current manuscript.
Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	<u> </u> None	
		National Institutes of Health, National Cancer Institute	SBIR (Small Business Innovation Research) award number HHSN261201200078C) through Humanetics Corp. (Edina, MN)
3	Royalties or licenses	<u> X </u> None	
4	Consulting fees	<u> X </u> None	

5	Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events	<input checked="" type="checkbox"/> None	
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8	Patents planned, issued or pending	<input checked="" type="checkbox"/> None	
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input type="checkbox"/> None American Radium Society, Inc.	Past president. Role is unrelated to current manuscript.
11	Stock or stock options	<input checked="" type="checkbox"/> None	
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

Benjamin Movsas received funding support from the NIH SBIR grant (HHSN261201200078C) that was award to Humanetics Corporation and supported the studies in the manuscript. Ben Movsas currently receives payments to support research unrelated to this manuscript from 3 other companies. Ben Movsas was formerly the president of American Radium Society, Inc, and this role is unrelated to the current manuscript.

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: Jan. 19th, 2023

Your Name: Charles B Simone II

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

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3	Royalties or licenses	<u>__X__</u> None	
4	Consulting fees	<u>__X__</u> None	
5	Payment or honoraria for lectures, presentations,	<u>__X__</u> None	

	speakers bureaus, manuscript writing or educational events		
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12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input type="checkbox"/> None	
		Translational Lung Cancer Research	Editorial board member

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

Charles Simone is currently on the editorial board for Translational Lung Cancer Research.

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.

ICMJE DISCLOSURE FORM

Date: Jan. 19th, 2023

Your Name: Stephen L. Brown

Manuscript Title: The radioprotectant nano-genistein enhances radiotherapy efficacy of lung tumors in mice

Manuscript number (if known): TLCR-22-856

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Time frame: past 36 months			
2	Grants or contracts from any entity (if not indicated in item #1 above).	<u> X </u> None	
3	Royalties or licenses	<u> </u> None	
		Humanetics Corporation (Minneapolis, MN)	Royalty from Humanetics Corp. to Henry Ford Health and Stephen Brown for an intellectual property license agreement that includes annual maintenance fee for Mitigation of Radiation Injury by CXCR4 Inhibition. Note that this intellectual property is unrelated to the current manuscript and BIO 300.

4	Consulting fees	<input type="checkbox"/> None	
		NIH	Review of grants as standing study section member (RTB).
5	Payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events	<input checked="" type="checkbox"/> None	
6	Payment for expert testimony	<input checked="" type="checkbox"/> None	
7	Support for attending meetings and/or travel	<input checked="" type="checkbox"/> None	
8	Patents planned, issued or pending	<input checked="" type="checkbox"/> None	
9	Participation on a Data Safety Monitoring Board or Advisory Board	<input checked="" type="checkbox"/> None	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	<input checked="" type="checkbox"/> None	
11	Stock or stock options	<input checked="" type="checkbox"/> None	
12	Receipt of equipment, materials, drugs, medical writing, gifts or other services	<input checked="" type="checkbox"/> None	
13	Other financial or non-financial interests	<input checked="" type="checkbox"/> None	

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

Stephen Brown received funding support from the NIH grant that supported the studies in the manuscript and receives royalty payments from Humanetics Corporation for intellectual property unrelated to the manuscript.

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

I certify that I have answered every question and have not altered the wording of any of the questions on this form.