

APPENDIX D PRINCIPAL INVESTIGATOR SURVEY

CT Stem Cell Research Program - Accomplishments

Introduction

The Connecticut Academy of Science and Engineering (CASE) is conducting a review of the Connecticut Stem Cell Research Program to report on the program's accomplishments on behalf of the Connecticut Department of Public Health and Connecticut Innovations.

Principal Investigators of Connecticut Stem Cell Research Grants are requested to respond to the following survey. The survey results will be most useful in identifying accomplishments of the state's initial investment in stem cell research and the resulting CASE report will be used by the state's leadership as guidance for determining the future of the stem cell research program beyond the initial funding period.

Survey results will be aggregated and comments provided will NOT BE identified by individual.

NOTE: If you have served as the Principal Investigator on more than one CT Stem Cell Research Grant, you should have been contacted by CASE staff via email and asked to respond to ONLY ONE survey for all your grants with similar research goals. If your research changed direction and CT Stem Cell Research grants supported your different areas of Stem Cell research, you should have received a separate survey request for each award with different research goals.

The survey should take approximately 45-60 minutes. If you have questions or received this in error, contact Terri Clark, Associate Director, CASE at 860-571-7143 or by email at tclark@ctcase.org

Thank you for your time.

General Information

1. Provide the following information:

Name:

Institution:

2. Provide the CT Stem Cell Research Grant Funding identification number for your CT Stem Cell Research Grant. If you had more than one CT Stem Cell Research Grant in which you served as Principal Investigator AND the grants were in support of similar research goals, enter the grant funding identification numbers chronologically beginning with the oldest grant.

CT Stem Cell Research Grant Funding - 1 (oldest in sequence of grants awarded)

CT Stem Cell Research Grant Funding - 2

CT Stem Cell Research Grant Funding - 3

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3. Indicate the grant type for each of your CT Stem Cell Research grants listed in the previous question. Enter grant types chronologically, beginning with your oldest grant funding.

	Seed	Established Investigator	Group	Group Disease-directed	Hybrid
CT Stem Cell Research Grant Funding - 1 (oldest in sequence of grants awarded)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CT Stem Cell Research Grant Funding - 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CT Stem Cell Research Grant Funding - 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other type? Specify:

4. Were you able to complete the research funded through your CT Stem Cell Research Grant Funding within the Assistance Agreement timeline?

	Completed within timeline	Required An Extension	Additional months required
CT Stem Cell Research Grant Funding - 1 (oldest in sequence of grants awarded)	<input type="text"/>	<input type="text"/>	<input type="text"/>
CT Stem Cell Research Grant Funding - 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
CT Stem Cell Research Grant Funding - 3	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comment:

5. Select your response to the following questions from the # of years drop-down menu.

	# of Years
How long have you served as a lead scientist?	<input type="text"/>
How long have you had your own laboratory? If you do not have your own laboratory, indicate by selecting 0 years.	<input type="text"/>

Comment:

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6. To what extent do you agree or disagree with each of the following statements as a recipient of CT Stem Cell Research Grant Funding?

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	N/A
My stem cell research would not have been initiated without CT Stem Cell Research Grant Funding.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CT Stem Cell Research Grant Funding made it possible to obtain funds from other sources to continue my stem cell research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CT Stem Cell Research Grant Funding made it possible to increase staff size to support my research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CT Stem Cell Research Grant Funding made it possible to increase my lab's technology/equipment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comment

7. Did the availability of CT Stem Cell Research Grants contribute to your reason for doing your research at a CT research institution?

- I was already at a Connecticut research institution.
- Yes, the funding was one reason I moved to CT to do my research.
- No, the funding was not a reason I moved to CT to do my research.

If no, please comment on what the reason was for doing your research in CT.

Basic, Translational, and Clinical Research

This section of the survey includes two questions about the type of research you are doing with your CT Stem Cell Research Grant Funding. For the purposes of this survey, use the following definitions for Basic and Translational Research.

BASIC:

Research directed at understanding the fundamental mechanisms of biologic processes without regard for direct application to the understanding or treatment of human disease

TRANSLATIONAL(from NIH - Institute of Translational Health Services):

- the process of making discoveries in the research laboratory or in preclinical studies that will have an impact on human health and may lead to the development of studies in humans,
- the process of applying discoveries generated during research in the laboratory, and in preclinical studies, to the development of trials and studies in humans.

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8. Indicate the primary type of research you did (are doing) through your CT Stem Cell Research Grant Funding.

Basic Translational Clinical

9. Estimate the % of your stem cell research in five years that will be:

	% Basic	% Translational	% Clinical
Five Years	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comment:

Funding

10. Are you continuing to do similar research to what your CT Stem Cell Research funding enabled you to do? Check all that apply.

- My research through the CT Stem Cell Grant Funding has ended and I received additional funding to continue this research.
- My research through the CT Stem Cell Research Grant Funding has ended and I have applied for additional funding but have not yet received a decision.
- My research through the CT Stem Cell Research Grant Funding has ended and I have not been awarded additional funding for proposals submitted.
- My research through the CT Stem Cell Research Grant Funding has ended and I have not applied for additional funding.
- My research has changed based on my CT Stem Cell Research Grant Funding and I received additional funding to do the new research.
- My research has changed based on my research through the CT Stem Cell Research Grant Funding and I have applied for additional funding but have not yet received a decision.
- My research through the CT Stem Cell Research Grant Funding is still in process.
- My research has changed following the research I did with CT Stem Cell Research Grant Funding and I am no longer doing stem cell research.

Comment

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11. Provide the following information on stem cell research funding applied for in addition to this grant funding. If responding to this survey for multiple CT Stem Cell Grant Funding for similar research, do not include in your response your previous CT Stem Cell grant funding.

	Source	Amount	Status of Funding
Funder - 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Funder - 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Funder - 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
Funder - 4	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comment:

Staffing

12. Estimate the # of staff members for each of the following categories who worked with you on your stem cell research PRIOR to receiving your CT Stem Cell Research Grant Funding. Select the "0" option in the drop-down menu if no staff members within a category worked with you on your stem cell research prior to receiving your funding.

Prior to your CT Stem Cell Research Grant Funding

Research Assistants/Technicians	<input type="text"/>
Postdoctoral Fellows (post-PhD)	<input type="text"/>
Post Health Professional Degree	<input type="text"/>
Fellows not pursuing a Master's or PhD	<input type="text"/>
PhD Students	<input type="text"/>
Master's Students	<input type="text"/>
Undergraduate Students	<input type="text"/>

Comment:

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13. Estimate the # of staff members for each of the following categories who were funded through your CT Stem Cell Research Grant Funds by year.

PLEASE NOTE:

- For the years prior to when your CT Stem Cell Research Grant Funding began, select the "Prior Funding" option in the drop-down menu for the # of staff members by category for those years.
- If your CT Stem Cell Research Grant Funds have ended, but you continue to have staff members working with you on your stem cell research, include in your yearly estimate.
- If your CT Stem Cell Research Grant Funds have ended and you have no staff members working with you on your stem cell research or you are no longer doing stem cell research, select the "0" option in the drop-down menu for the # of staff members by category for those years.

	2007	2008	2009	2010	2011	2012	2013 (projected for One Year)
Research Assistants/Technicians	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Postdoctoral Fellows (post-PhD)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Post Health Professional Degree	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fellows not pursuing a Master's or PhD	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PhD Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Master's Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Undergraduate Student	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comment

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14. Estimate the number of staff members who were new to the stem cell field and the number who relocated to Connecticut as a result of the research that was supported through your CT Stem Cell Research Grant Funding.

	# who were new to the stem cell field	# who relocated to CT to work on this research
Research Assistants/Technicians	<input type="text"/>	<input type="text"/>
Postdoctoral Fellows (post-PhD)	<input type="text"/>	<input type="text"/>
Post Health Professional Degree	<input type="text"/>	<input type="text"/>
Fellows not pursuing a Master's or PhD	<input type="text"/>	<input type="text"/>
PhD Students	<input type="text"/>	<input type="text"/>
Master's Students	<input type="text"/>	<input type="text"/>
Undergraduate Students	<input type="text"/>	<input type="text"/>

Comment

Research Results

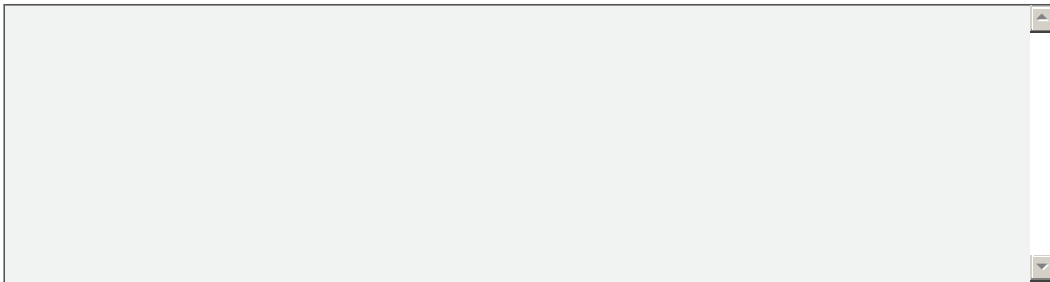
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15. Provide a lay summary detailing the results and key accomplishments of your CT Stem Cell Research Grant Funding. Your response should include the value your research provides to the citizens and government of the State of Connecticut. Be as clear and concise as possible.

Consider the following in your response:

- **Did your research result in notable progress in the field of stem cell research and human health?**
- **Why is your research important and worthy of state funded investment?**
- **Did your research result in key scientific breakthroughs?**

NOTE: 1000 character maximum



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16. Which of the following outcomes can you attribute to your research through the CT Stem Cell Research Grant Funding?

	Yes	No	Not Applicable
Licenses Issued	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Laboratory Established	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Practice (Clinical, Tool Instruments, Procedure/Technique)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Research Method	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Theory	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New Vaccine/Drug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Novel Human Stem Cell Line	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patent Application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Patents Issued	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peer Reviewed Research Papers and Journals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Replication of Research Findings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research Findings/Knowledge Creation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software/Databases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spin Off Company	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

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17. If yes to any of the above, please briefly comment and indicate the number, if appropriate (100 character maximum).

Licenses Issued	<input type="text"/>
New Laboratory Established	<input type="text"/>
New Practice (Clinical, Tool Instruments, Procedure/Technique)	<input type="text"/>
New Research Method	<input type="text"/>
New Theory	<input type="text"/>
New Vaccine/Drug	<input type="text"/>
Novel Human Stem Cell Line	<input type="text"/>
Patent Application	<input type="text"/>
Patents Issued	<input type="text"/>
Peer Reviewed Research Papers and Journals	<input type="text"/>
Replication of Research Findings	<input type="text"/>
Research Findings/Knowledge Creation	<input type="text"/>
Software/Databases	<input type="text"/>
Spin Off Company	<input type="text"/>

Collaborations

18. Rate the importance of collaboration on your research through the CT Stem Cell Research Grant Funding.

Very Important	Important	Neither Important Nor Not Important	Not Important	Not Important At All	N/A
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)					
<input type="text"/>					

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19. Respond to the following statements related to collaborations on your research made available through your CT Stem Cell Research Grant Funding.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	N/A
Overall, collaboration was effective	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conflicts among collaborators were effectively resolved	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborators were open to innovation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborators capitalized on the different disciplinary perspectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There was trust among collaborators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborators frequently shared information with each other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comment

20. The CT Stem Cell Research Program requires that the research be conducted in CT and within the state at an eligible academic institution. Respond to the following statements about the potential effect of that policy on collaborations outside of CT as related to your research.

	Yes	No	No Comment
Restricted collaborations that would have been beneficial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slowed the pace of my research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Made it more difficult to compete for grants other than that available through CT Stem Cell Research Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comment

CT Stem Cell Research Program Considerations

**CT Stem Cell Research Program - Accomplishments
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21. To what extent do you agree or disagree with the following statements? In the ABSENCE of future CT Stem Cell Research Grant Funding opportunities, I would:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	N/A
Be able to sustain my stem cell research program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have more difficulty obtaining funding for my stem cell research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have more difficulty advancing my stem cell research career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leave the field of stem cell research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

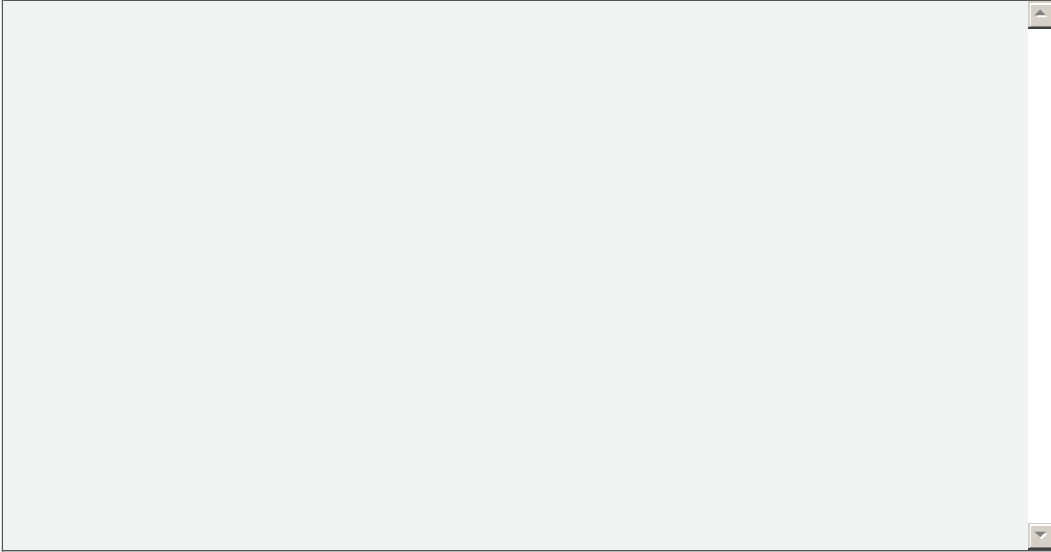
Comment

22. To what extent do you agree or disagree with the following statement? In the ABSENCE of future CT Stem Cell Research Grant Funding, I could obtain alternative sources of funding for my research:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	N/A
In Connecticut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In the United States	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internationally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**CT Stem Cell Research Program - Accomplishments
**

23. Identify any current CT Stem Cell Research Program policy issues (obstacles/barriers/concerns) that should be considered by the state (maximum 1000 characters).



24. How would you suggest the CT Stem Cell Research Program be improved (maximum 1,000 character maximum)?

