Survey: External Advisors and Scientists Not-associated with the PS-OCs (Section G)

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1. Please identify your primary affiliation with the Physical Sciences - Oncology Centers Program.

Please pick one of the answers below.

- ○ Center Principal Investigator (PI)
- ○ Center Senior Scientific Investigator (SI)
- ○ PS-OC Project/Core Investigators (i.e. project/core leader or research investigator)
- ○ PS-OC Trainee
- ○ PS-OC Advocate
- ○ PS-OC Outreach and Dissemination Unit Lead
- ○ PS-OC Education and Training Unit Lead
- ○ PS-OC Administrator
- ○ PS-OC External Advisor
- ○ I am not associated with the PS-OC Program

Section G. The following section contains questions specific to scientists external or not associated with the PS-OC.

2. G1. Research experiences may vary depending on your scientific background and the scientific background of your collaborators. For each of the following column headers, please select all types of scientists that apply.

Please fill in the answers in the table below (mark appropriate circles and squares and fill in the blank spaces).

	Your field of training and expertise	Scientists you work with currently	Scientists you would like to work with on future projects
Molecular Biologists	☐	☐	☐
Cell Biologists	☐	☐	☐
Engineers	☐	☐	☐
Biologists	☐	☐	☐
Evolutionary Biologists	☐	☐	☐
Surgeons	☐	☐	☐
Oncologists	☐	☐	☐
Pathologists	☐	☐	☐
Radiologists	☐	☐	☐
Cancer Biologists	☐	☐	☐
Chemists	☐	☐	☐
Physicists	☐	☐	☐
Mathematicians	☐	☐	☐
Theorists	☐	☐	☐
Statisticians	☐	☐	☐
Information Technologists/Computer Scientists	☐	☐	☐
Other	☐	☐	☐

3. G2. What is your professional title? Please select all that apply.

Please check all that apply and/or add your own variant.

- ☐ Trainee (undergrad, graduate, postdoctoral fellow, medical student)
- ☐ Research Assistant
- ☐ Research Scientist
- ☐ Assistant Professor
- ☐ Associate Professor
- ☐ Full Professor
- ☐ Department Chair
- ☐ Cancer Center Director
- ☐ Dean

Other

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4. G3. To what extent do your research interests overlap with the following scientific themes?

Please mark the corresponding circle - only one per line.

	Not at all	Very Low	Low	Somewhat	High	Very High
Physics in Cancer (i.e. Understanding the role of cell and tissue mechanics, transport phenomena, heat transfer, shear stress, or other forces in cancer phenomena)	○	○	○	○	○	○
Evolution and Evolutionary Theory in Cancer	○	○	○	○	○	○
Information Transfer and Decoding in Cancer (i.e. spatial and temporal domains of trafficking of sub-cellular components, transcription, or translation in cancer)	○	○	○	○	○	○
De-Convoluting the Complexity of Cancer (i.e. Applying mathematical simulations, 3D model systems, or game theory to understand cancer phenomena)	○	○	○	○	○	○

5. G4. Does your Institution have an overall strategy or mechanism for converging the fields of physical sciences and oncology?

Please pick one of the answers below.

- ○ Yes
- ○ No
- ○ Unsure

6. G4b. Please describe any mechanisms or sources of support that are available at your Institution for collaborative research in physical sciences and oncology. If possible, please provide links to websites or programs.

Please write your answer in the space below.

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7. G5. Please indicate how strongly you agree or disagree with the following statement. I have seen evidence of the formation of a new field of "Physical Sciences-Oncology" within...

Please mark the corresponding circle - only one per line.

	Disagree			Neutral			Agree
My department(s)	○	○	○	○	○	○	○
My institutions(s)	○	○	○	○	○	○	○
At scientific meetings	○	○	○	○	○	○	○
My current research	○	○	○	○	○	○	○
My future research plans	○	○	○	○	○	○	○
Publications	○	○	○	○	○	○	○
I have not seen evidence of the formation of a new field of "Physical Sciences-Oncology"	○	○	○	○	○	○	○

8. G6. From your standpoint, where should NCI focus its efforts in converging physical sciences and oncology? Please select all that apply.

Please check all that apply and/or add your own variant.

- ☐ Short-term research aimed at clinically testable results
- ☐ Fundamental research aimed at new advances
- ☐ Training a new generation of investigators in physical sciences and oncology
- ☐ Infrastructure/tool creation

Other

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9. G7. Are you aware of other programs or efforts (non-NCI) you feel are in the same domain (converging physcial sciences and oncology)?

Please pick one of the answers below.

- ○ Yes
- ○ No
- ○ Unsure

10. G7b. Please provide a list of these programs. If possible, please provide websites or links for these programs.

Please write your answer in the space below.

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11. G8. What barriers do you anticipate for integrating the fields of physical sciences and oncology? Please check all that apply.

Please check all that apply and/or add your own variant.

- ☐ Communication barriers between disciplines
- ☐ Limited funding
- ☐ Lack of physical infrastructure
- ☐ Difficulties sharing data
- ☐ Initiating collaborations
- ☐ I anticipate no barriers.

Other

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12. G9. Please rate your level of familiarity with NCI's efforts to converge physical sciences and oncology, or the PS-OC Program?

Please pick one of the answers below or add your own.

- ○ I am not aware of the program.
- ○ I have heard of the program, but know little about the structure and goals.
- ○ I am familiar with the program.
- ○ I was involved in the NCI Workshops, Think Tanks, or review for this concept.
- ○ I submitted an application for this program.
- ○ I am an external advisor to a PS-OC.

Other

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13. G10. Are you involved with any of the following NIH programs? Please check all that apply.

Please check all that apply and/or add your own variant.

- ☐ Integrative Cancer Biology Program
- ☐ Tumor Microenvironment Network
- ☐ The Cancer Genome Atlas
- ☐ Centers of Cancer Nanotechnology Excellence
- ☐ Clinical Proteomic Tumor Analysis Consortium
- ☐ Training Programs (i.e. R25, T32)

Other

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14. G11. From your standpoint, please rate the PS-OC program (1-5) in the following areas. "5" is the highest rating.

Please mark the corresponding circle - only one per line.

	I do not know	1	2	3	4	5
Development of trans-disciplinary teams and infrastructure	○	○	○	○	○	○
Training trans-disciplinary scientists	○	○	○	○	○	○
Disseminiating information about the program to the broader research community	○	○	○	○	○	○
Generation of new datasets in cancer research	○	○	○	○	○	○
Generation of new knowledge in cancer research	○	○	○	○	○	○
Bringing new types of scientists to cancer research	○	○	○	○	○	○

The following question inquires about your views on the progress the PS-OC program is making relative to the goals of the program.

15. From your standpoint, please evaluate the extent to which the PS-OC program has been successful in reaching the following program goals.

Please mark the corresponding circle - only one per line.

	I do not know	Very Poor	Poor	Fair	Good	Excellent
Form trans-disciplinary teams focused on establishing physical sciences-centric themes in cancer research	○	○	○	○	○	○
Build a collaborative trans-discipline research sharing network	○	○	○	○	○	○
Promote collaboration by PS-OC researchers across the PS-OC network	○	○	○	○	○	○
Educate trans-disciplinary scientists that pursue careers in the field of physical sciences in oncology	○	○	○	○	○	○
Promote collaboration by PS-OC researchers beyond the PS-OC network	○	○	○	○	○	○
Form new physical sciences in oncology programs at universities or institutions	○	○	○	○	○	○
Test dogma-challenging hypothesis on cancer initiation and progression	○	○	○	○	○	○
Bring new types of scientists to cancer research	○	○	○	○	○	○
Generate new datasets in cancer research	○	○	○	○	○	○
Generate new knowledge in cancer research	○	○	○	○	○	○

16. Please provide any additional comments that you would like to share about the convergence of physical sciences in oncology or the PS-OC program.

Please write your answer in the space below.

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