National Institutes of Health

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PS-OC Survey: Principal and Senior Scientific Investigators (Sections B & J)

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

Please pick one of the answers below.

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

Section B. The following section contains questions specific for the Principal and Senior Investigators of the PS-OCs.

experiences may v	B1. There are a variety of different types of scientists involved in the PS-OC program. Research experiences may vary depending on your background and the 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	e table below (mark appropriate cii	rcles and squares and fill in the bla	ank spaces).							
	Your field of training and expertise	Scientists have you worked with prior to the PS-OC program	Scientists you work with currently	Scientists would like to work with in future projects						
Molecular Biologists										
Cell Biologists										
Engineers										
Biologists										
Evolutionary Biologists										
Surgeons										
Oncologists										
Pathologists										
Radiologists										
Cancer Biologists										
Chemists										
Physicists										
Mathematicians										
Theorists										
Statisticians										
Information Technologists/Comput er Scientists										
Other										
The following q organization of	uestions inquire a your PS-OC.	about the plannin	g, management,	and						
3. B2. Which one of	or more of the four NC	CI PS-OC Themes is	most relevant to your	PS-OC?						
Please check all that apply.										
☐ The Physics of	of Cancer									
☐ Evolution and	l Evolutionary Theory	in Cancer								
☐ De-convolutin	ng Complexity									
Understandin	g Information Transfe	er and Decoding								

OC?							
Please check all that apply and/or ad	ld your own varian	t.					
☐ Face - to - Face N	Meetings						
☐ Teleconferences							
☐ PS-OC Site Visits	;						
☐ PS-OC Workshop)S						
☐ Email							
☐ Webpage							
☐ Phone Calls							
Other							
5. B4. Please select the following questions.	e choice wh	nich most cl	osely repre	sents the fre	equency of	meetings for	r the
Please mark the corresponding circle	e - only one per line	9.					
	Yearly	Every 6 months	Every 3 months	Monthly	Weekly	More than once per week	Daily
How often do you meet with your PS-OC's project leaders?	0	0	0	0	0	0	0
How often do you meet with	0	0	0	0	0	0	0

4. B3. What methods do you use to coordinate activites and facilitate communication across your PS-

6. B5. To what extent i	s your Center in	nplementing the	following activite	es recommende	d by NCI?
Please mark the corresponding circle	e - only one per line.				
	Not currently implementing	Attempting to implement	Neutral	Implementing some aspects	Fully implementing
Offering PS-OC research training programs	0	0	0	0	0
Promoting multi-disciplinary collaborations within center	0	0	0	0	0
Promoting multi-disciplinary collaborations between PS-OCs	0	0	0	0	0
Ensuring day to day management and communications within the PS-OC	0	0	0	0	0
Emphasizing strategic planning within the PS-OC, including setting milestones, monitoring progress, seeking advisory or committee input	0	0	0	0	0
7. B6. What challenges	s have you enco	untered or do vo	ou anticinate for	Vour PS-OC?	
Please check all that apply and/or ac		difference of do ye	od diffioipato for	your root.	
☐ Communication b		disciplines			
☐ Delay in formation					
☐ Limited funds					
☐ Lack of physical i	nfrastructure su	pport			
☐ Difficulties sharing	g data and infor	mation			
Other					
The following gues	otiono inquire	about the say	agrana of way		ooorob

The following questions inquire about the progress of your PS-OC's research, training, and outreach programs.

8. B7. Please rate your you set for your PS-OC		•		ı have mad	e so far rela	tive to the r	milestones					
Please mark the corresponding circle - only one per line.												
	Α	В	С	D	Е	F	G					
The overall PS-OC framework	0	0	0	0	0	0	0					
PS-OC Research Projects	0	0	0	0	0	0	0					
PS-OC Outreach and Dissemination PS-OC Education and	0	0	0	0	0	0	0					
Training	0	0	0	0	0	0	0					
A - Dissatisfied B - C - D - Neutral E - F - G - Satisfied	necessity o	f the followi	ng in achiev	ving the res	earch miles	tones of you	ur PS-OC.					
Please mark the corresponding circle	- only one per lin	<i>e.</i>										
	Α	В	С	D	Е	F	G					
Development of new paradigms	0	0	0	0	0	0	0					
Development of new datasets	0	0	0	0	0	0	0					
Development of new approaches, models, or techniques	0	0	0	0	0	0	0					
Formation of trans- disciplinary collaborations												

between physical scientists

and cancer researchers

	А	- Unimportant
	В	
	C D	- Neutral
	E	- Neutral
	F	-
	G	- Important
		hat do you believe is a reasonable timeframe to expect PS-OC supported discoveries or translation?
Please	pick one	of the answers below.
0	0-1 y	vear
0	1-3 y	vears
0	3-5 y	vears
0	5-10	years
0	10+	years
imp	act,	J. The following questions inquire about your collaborations and their methods for facilitating collaborations, and the impact of the PS-OC in joint pour collaborations.
colla whic	aborat ch you	ithout naming specific individuals, please give an example of a successful trans-disciplinary ion (i.e. a collaboration that integrated two or more individual disciplinary perspectives) in have been involved as part of the PS-OC program. Please provide a brief description of the tand how it was initiated. Please define each member's role in the collaboration.
Please	write you	ur answer in the space below.

Legend for rank grid table: 9. B8. Please rate the necessity of the following in achieving the research milestones of your

PS-OC.
Columns:

12.	12. J1b. What are the outcomes of the collaboration described above? Please select all that apply.										
Please check all that apply.											
	New knowledge or skills										
	Pilot project funds										
	Outreach project	funds									
	Trans-network pro	oject funds									
	NIH or NSF grant	funds									
	Publications										
	Conference prese	entations or	invited talk	S							
	The collaboration	is still in pr	ogress.								
	Will form new coll	laborations									
	Will pursue new a	aspects of th	ne project a	s an extenti	on of this w	ork					
13.	J1c. How many res	searchers w	ere involve	d in this trar	ns-disciplina	rv collabora	ation?				
	e pick one of the answers below					,					
0	2										
0	3										
0	4										
0	5-7										
0	8-10										
0	10+										
	J1d. Please indicat aining to the collab							ements			
Please	e mark the corresponding circle	e - only one per lin	9.								
		Disagree			Neutral			Agree			
witho	out one member of the	0	0	0	0	0	0	0			
witho	out two members of the	0	0	0	0	0	0	0			
	out a trans-disciplinary	0	0	0	0	0	0	0			
	out the support of the OC program	0	0	0	0	0	0	0			

15. J2. What difficulties, if any, have you experienced during your trans-disciplinary collaborations in the PS-OC program? Please rate the severity of these difficulties on a scale of 1-5. A "1" indicates that the issue did not impact the outcome(s) of the collaboration. A "5" indicates that the issue severely impacted the collaboration.

	e table below (mark appropriate circles and squares and fill in the bla	ank spaces.
	Check all that apply	Please rate the severity of the issue
Members prioritized their personal goals before the overall team goal		O1 O2 O3 O4 O5
Difficulties in sharing data		O1 O2 O3 O4 O5
The team members discuss issues only at a broad level		O1 O2 O3 O4 O5
Difficulties in sharing supplies, cells, tissue, or equipment		O1 O2 O3 O4 O5
Responsibilities, roles, and expectations were not clear		O1 O2 O3 O4 O5
Difficulties in organizing travel		O1 O2 O3 O4 O5
Team members became competitive with one another		O1 O2 O3 O4 O5
Difficulties in communication across scientific disciplines		O1 O2 O3 O4 O5
Lack of funds		O1 O2 O3 O4 O5

Power struggles	01 02 03 04 05
Sharing credit	O1 O2 O3 O4 O5
The team did not meet regularly	O1 O2 O3 O4 O5
The team did not establish trust	O1 O2 O3 O4 O5
There is no reward structure at my institution for collaborations	O1 O2 O3 O4 O5
Trouble identifying additional team members to help	O1 O2 O3 O4 O5
Lack of clear vision or goals	O1 O2 O3 O4 O5
No agreement on the primary spokesperson	O1 O2 O3 O4 O5

16. J3	B. Please define y	our role(s) in yo	ur PS-OC collab	orations. Please	e select all that a	apply.				
Please check all that apply and/or add your own variant.										
	Provide cells or re	eagents								
	□ Provide technology or skill									
	Provide strategic	direction								
	Leader									
	Combine data									
	Organize team meetings and communication									
	Perform data ana	lysis								
	Participant									
	Advisor									
	Provide training/e	ducation								
	Create reports									
	Communicate to s	stakeholders (i.e	e. NCI)							
	Interface with Inst	ituional leadersh	nip							
	Administrative sup	oport or IT								
Other										
17 .14	4. Please answer	the following au	estions with the	annroximate nu	mher of investig	ators (i e				
	y level researche		oodono with the	approximate na		atoro (i.o.				
Please m	nark the corresponding circle	- only one per line.								
		0	1 - 4	5 - 10	11 -15	16+				
How ma	any PS-OC									
•	gators within your did you work with									
prior to	the start of the PS-									
OC pro		0	0	0	0	0				
	any PS-OC gators within your									
Center now?	iter do you work with									
	any of these new	0	0	0						
collabo	rations would have									
	without PS-OC n funding?	0	0	0	0	0				

18. J5. Overall, please evaluate your PS-OC supported collaborations in the following areas.											
Please mark the corresponding circl	Please mark the corresponding circle - only one per line.										
	Very Poor	Poor	F	air	Good		Excellent				
Scientific impact	0	0		0	0		0				
Productivity	0	0		0	0		0				
Rewarding to all parties involved equally	0	0		0	0		0				
Communication among collaborators	0	0		0	0		0				
Ability to utilize the strengths of different researchers involved	0	0		0	0		0				
Enabling you to reach your own research milestones faster	0	0		0			0				
Ability to attract new collaborators to join effort	0	0		0	0		0				
19. J6. How effective h		ving PS-OC o	pportunities	been in e	ncouraging	you to	find and/or				
Please mark the corresponding circle	e - only one per line.										
	Not Applicable	Ineffective		Somew			Very Effective				
PS-OC Trans-Network Projects	0	0	0	0	(O	0				
PS-OC Young Investigator Trans-Network Projects	0	0	0	0	(O	0				
PS-OC Pilot Projects	0	0	0	0	()	0				
PS-OC Outreach Pilot Projects	0	0	0	0	(O	0				
Student Exchanges	0	0	0	0	()	0				
PS-OC Annual Meeting	0	0	0	0	()	0				
PS-OC Workshops and Symposiums	0	0	0	0	(O	0				
PS-OC Data Jamboree	0	0	0	0		O	0				

20. J7. From your standpoint, please evaluate the extent to which the PS-OC program has been successful in the following areas.

Please mark the corresponding circle - only one per line.

	I do not know	Very Poor	Poor	Fair	Good	Excellent
Improving leadership skills in heading a transdisciplinary study	0	0	0	0	0	0
Mentoring junior faculty in leading and participating in a trans-disciplinary study	0	0	0	0	0	0
Increasing the discussion about team science and collaborations at your institution	0	0	0	0	0	O
Developing better policies to review and reward team science at your institution	0	0	0	0	0	0

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

21. 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.

Please mark the corresponding circle	e - 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	0	0	0	0	0	0
Build a collaborative trans- discipline research sharing network	0	0	0	0	0	0
Promote collaboration by PS-OC researchers across the PS-OC network	0	0	0	0	0	0
Educate trans-disciplinary scientists that pursue careers in the field of physical sciences in oncology	0	0	0	0	0	0
Promote collaboration by PS-OC researchers beyond the PS-OC network	0	0	0	0	0	0
Form new physical sciences in oncology programs at universities or institutions	0	0	0	0	0	0
Test dogma-challenging hypothesis on cancer initiation and progression	0	0	0	0	0	0
Bring new types of scientists to cancer research	0	0	0	0	0	0
Generate new datasets in cancer research	0	0	0	0	0	0
Generate new knowledge in cancer research	0	0	0	0	0	0

physical sciences in oncology or the PS-OC program.	
Please write your answer in the space below.	