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SUMMER GENETICS INSTITUTE ALUMNI SURVEY

PURPOSE OF SURVEY AND CONFIDENTIALITY

The National Institute of Nursing Research (NINR) at the National Institutes of Health is conducting this important survey to examine the extent to which the Summer Genetics Institute is achieving its long-term goals in research and clinical practice. The results of this survey will determine the extent to which the Summer Genetics Institute program is achieving its goals and serve to inform discussions and decisions on the future of the program.

Recent Summer Genetics Institute alumni are being asked to complete the survey. The survey should take approximately **25 minutes** to complete.

Your participation is voluntary and secure to the extent allowable permitted by law. We are not collecting personally identifiable information. You can choose not to answer questions and to stop your participation at any time without consequence. Your answers will be collated with the responses of other participants and analyzed.

If you have questions about this survey or your participation, please contact Dr. Jessica McIlvane by email at jessica.mcilvane@nih.gov or by phone at (301) 594-1535.

By checking this box, I acknowledge and accept the statement.

☐ Yes, I accept

☐ No, end the survey

SUMMER GENETICS INSTITUTE SURVEY QUESTIONS:

1. What year did you attend the NINR Summer Genetics Program? _____

DEMOGRAPHICS

2. What is your current age?

30 years or less

31- 35

36 - 40

41 - 45

46 - 50

51- 55

56 - 60

61 - 65

66 years or more

3. What is your sex?

Female

Male

4. Are you of Hispanic or Latino origin?

Yes

No

5. Which of the following describes your race? (select all that apply):

White

Black or African American

Native Hawaiian or Pacific Islander

Asian or Asian-American

Native American/American Indian/Alaska Native

Decline to Respond

EDUCATION AND CERTIFICATIONS

6. Please check each degree you have completed:

BA/BS: _____

Masters: _____

PhD: _____

DrPH: _____

DNP: _____

MD: _____

DO: _____

DDS: _____

JD: _____

Other (Please specify): _____

7. What is your field of study or profession based on your highest degree?

Nursing: _____

Engineering: _____

Psychology: _____

Biology: _____

Law: _____

Medicine: _____

Dental: _____

Sociology: _____

Other (Please specify): _____

8. Please check each certificate you have obtained:

Certified Genetic Counselor _____

NP _____

PA _____

CNS _____

Other (Please specify): _____

9. Are you an RN or an NP?

Yes

No

WORK/POSITION HISTORY

10. What is your current employment or educational position (select all that apply)?

- Unemployed
- Scientist at a research institute or university
- Scientist for federal, state or local government
- US military or Commissioned Corps
- Faculty appointment
- Clinician (provide direct patient care such as RN, NP, CNS, MD, DDS, Psychologist)
- Pre-doctoral position
- Post-doctoral position
- Self-employed
- Student
- Other (Please specify) _____

11. Is your principal employer a:

- (Unemployed)
- Nursing school
- Dental school
- Engineering school
- Medical school
- School of public health
- Hospital or Clinic
- Other university school or department
- University-affiliated research center or research institute
- Non-profit research center or institute not affiliated with a university
- For-profit research center/institute or organization not affiliated with a university
- Government (federal, state, or local)
- Other employer (Please specify type) _____

12. What percent of your current time at work is spent on **research**? _____%

13. What percent of your current time at work is spent on **teaching** in an academic program?
_____%

14. What percent of your current time at work is spent on direct patient care, including counseling?
_____ %

15. What percent of your current time at work is spent as a health care manager / administrator?
_____ %

ACCOMPLISHMENTS - RESEARCH

16. How many **NIH research grants** have you applied for since attending the Summer Genetics Institute?

0 (Skip to Question 17)

1 - 3

4 - 6

7 - 10

11 - 15

16 or more

If answer is not zero - Answer question 16a

16a. Did any of these NIH research grant applications have a **genetics component**?

Yes, all the grants had a genetics component

Yes, most of the grants had a genetics component

Yes, some of the grants had a genetics component

No, none of the grants had a genetics component

17. How many **non-NIH research grants** have you applied for since attending the Summer Genetics Institute?

0 (Skip to Question 18)

1 - 3

4 - 6

7 - 10

11 - 15

16 or more

If answer is not zero - Answer question 17a

17a. Did any of these non-NIH research grant applications have a **genetics component**?

Yes, all the grants had a genetics component

Yes, most of the grants had a genetics component

Yes, some of the grants had a genetics component

No, none of the grants had a genetics component

18. Since attending the Summer Genetics Institute, how many **NIH research grants** have you been awarded as the **Principal Investigator (PI)**?

0 (Skip to question 19)

1 - 3

4 - 6

7 - 10

11 - 15

16 or more

If answer is not zero - Answer question 18a

18a. Did any of the NIH research grants that you were awarded as PI have a **genetics component**?

Yes, all the grants had a genetics component

Yes, most of the grants had a genetics component

Yes, some of the grants had a genetics component

No, none of the grants had a genetics component

19. Since attending the Summer Genetics Institute on how many funded **NIH research grants** have you participated as a **co-PI**?

0 (Skip to question 20)

1 - 3

4 - 6

7 - 10

11 - 15

16 or more

If answer is not zero - Answer question 19a

19a. Did any of the NIH research grants on which you participated as a co-PI have a **genetics component**?

- Yes, all the grants had a genetics component
- Yes, most of the grants had a genetics component
- Yes, some of the grants had a genetics component
- No, none of the grants had a genetics component

20. How many **non-NIH research grants** have you been awarded since attending the Summer Genetics Institute?

0 (Skip to Question 21)

1 - 3

4 - 6

7 - 10

11 - 15

16 or more

If answer is not zero - Answer question 20a

20a. Did any of the non-NIH research grants that you were awarded have a **genetics component**?

- Yes, all the grants had a genetics component
- Yes, most of the grants had a genetics component
- Yes, some of the grants had a genetics component
- No, none of the grants had a genetics component

ACCOMPLISHMENTS: PUBLICATIONS, PRESENTATIONS, POSTERS

21. Since attending the Summer Genetics Institute, have you authored or co-authored any peer-reviewed research publications?

Yes (Answer question 21a)

No (Skip to question 22)

21a. Did any of the peer-reviewed research publications that you authored or co-authored have a **genetics component**?

Yes, all the publications had a genetics component

Yes, most of the publications had a genetics component

Yes, some of the publications had a genetics component

No, none of the publications had a genetics component

22. Since attending the Summer Genetics Institute, have you presented any research papers or posters at conferences?

Yes (Answer question 22a)

No (Skip to question 23)

22a. Did any of the research papers or posters that you presented at conferences have a **genetics component**?

Yes, all the presentations had a genetics component

Yes, most of the presentations had a genetics component

Yes, some of the presentations had a genetics component

No, none of the presentations had a genetics component

INFLUENCE OF SUMMER GENETICS INSTITUTE

23. Since attending the Summer Genetics Institute, have you incorporated knowledge of genetics into your **research**?

Yes

No

Not sure

I do not do research

24. How have you used knowledge gained from the Summer Genetics Institute in your **research** (Please select all that apply)?

(I do not do research)

Adding research questions on genetics into my research

Having more informed/more in-depth discussions with my collaborator(s) or Co-PI's who lead the genetics component of our research

Partly changing my program of research to include genetics

Completely changing my program of research to include genetics

Improving my understanding of research literature on genetics

I have not used the training received at the Summer Genetics Institute in my research

Other (please specify): _____

25. Since attending the Summer Genetics Institute, have you incorporated knowledge of genetics into your **clinical practice**?

Yes

No

Not sure

I do not have a clinical practice

26. How have you used knowledge gained from the Summer Genetics Institute in your **clinical practice** (Please select all that apply)?

(I do not have a clinical practice)

Patient/family education

Patient/family counseling

Ordering genetic tests

Interpreting genetic tests

Treating genetic diseases

Referring patient(s)/family(s) for genetic counseling, testing, or treatment

I have not used the training received at the Summer Genetics Institute in my clinical practice

Other (please specify): _____

27. Since attending the Summer Genetics Institute, have you incorporated knowledge of genetics into your **teaching**?

Yes

No

Not sure

I do not teach

28. How have you used knowledge gained from the Summer Genetics Institute in your **teaching** (Please select all that apply)?

(I do not teach)

Including a more in-depth focus on genetics in my course curricula than before

Having more enriched conversations with students about genetics research

Encouraging students to pursue more knowledge/training in genetics

I have not used the training received at the Summer Genetics Institute in my teaching

Other (please specify): _____

REASONS FOR TAKING SUMMER GENETICS INSTITUTE

29. What were the main reasons you attended the Summer Genetics Institute? (Check all that apply)

to increase my knowledge of genetics

to improve my ability to include a genetics focus in my research

to improve my ability to include a genetics focus in my clinical practice

to improve my ability to include a genetics focus in my teaching

to expand my network of colleagues and mentors in the area of genetics

to broaden my knowledge base beyond what is available at my institution/school

Other (please specify): _____

SATISFACTION/IMPORTANCE OF COURSE CONTENT OF THE SUMMER GENETICS INSTITUTE

Please indicate the extent to which you agree or disagree with each of the following statements pertaining to your participation in the Summer Genetics Institute.

30. The Summer Genetics Institute has been valuable to my career.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree
- Not applicable

31. The Summer Genetics Institute has made me more likely to engage in **genetics research** activities.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree
- Not applicable/Was already engaging in genetics research activities

32. (If Strongly Agree/Agree to Q31) In what ways has the Summer Genetics Institute made you more likely to engage in genetics **research** activities?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

33. The Summer Genetics Institute has made me more likely to incorporate genetics into my **clinical** activities.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable/ Was already incorporating genetics into my clinical activities

34. (If Strongly Agree/Agree to Q33) In what ways has the Summer Genetics Institute made you more likely to incorporate genetics into your **clinical** activities?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

35. The Summer Genetics Institute has made me more likely to incorporate genetics into my **teaching** activities.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable/ Was already incorporating genetics into my teaching activities

36. (If Strongly Agree/Agree to Q35) In what ways has the Summer Genetics Institute made you more likely to incorporate genetics into your **teaching** activities?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

37. The Summer Genetics Institute included genetics content that was up to date.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

38. The Summer Genetics Institute was adequate to meet my needs.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

39. The genetics material presented in the Summer Genetics Institute was at an appropriate level of difficulty.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

40. The genetics material presented in the Summer Genetics Institute was repetitive.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

41. The genetics material presented in the Summer Genetics Institute was difficult to follow.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

42. I came into the Summer Genetics Institute with a basic knowledge of genetics.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

43. Did you take the pre-course primers that were offered prior to the Summer Genetics Institute?

Yes

No

Not sure

Not applicable / Not offered when I took SGI

44. If yes, then why did you take the pre-course primers that were offered prior to the Summer Genetics Institute?

Needed to learn basic genetics before taking the course

Needed a genetics refresher

Thought the content would be helpful to review before taking the course

It was suggested by the NINR SGI Course Coordinator

Not applicable

Other (please specify): _____

45. If no, then why didn't you take the pre-course primers that were offered prior to the Summer Genetics Institute?

Already had a strong understanding of basic genetics

Didn't have time

Didn't know about the pre-course primers

Pre-course primers were not offered when I took the course

Not applicable

Other (please specify): _____

46. The pre-course primers that were offered prior to the Summer Genetics Institute were helpful.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable / Did not take / Not offered when I took SGI

47. It would have been helpful for me to take additional pre-course primers prior to the Summer Genetics Institute, such as an on-line in-depth module on basic genetics.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

48. How important was the lab component of the Summer Genetics Institute?

Very important

Somewhat important

A little important

Not important at all

Not applicable

49. How important was the interaction and networking with students, scientists/researchers, and clinicians who took the Summer Genetics Institute with you?

Very important

Somewhat important

A little important

Not important at all

Not applicable

50. How important are the ongoing interactions and relationships with colleagues that took the Summer Genetics Institute with you?

Very important

Somewhat important

A little important

Not important at all

Not applicable

51. The Summer Genetics Institute prompted me to build or participate in collaborations with scientists and researchers in non-nursing disciplines, such as medicine, engineering, and public health.

Strongly agree

Agree

Neither agree nor disagree

Disagree

Strongly disagree

Not applicable

OUTCOMES OF THE SUMMER GENETICS INSTITUTE

52. The Summer Genetics Institute: *(Check all that apply)*

- increased my knowledge of genetics
- allowed me to expand my network of mentors and/or collaborators in genetics
- gave me knowledge about genetics that I wouldn't have been able to get elsewhere
- helped me include a genetics focus in grant proposal(s)
- improved my collaboration with other scientists
- gave me a new set of research tools
- allowed me to have better informed/richer discussions about genetics with other scientists/students and/or patients.
- prompted me to change the focus of my program of research to include genetics
- changed the course of my career to include genetics
- helped me to think of questions to ask patients in clinical care that I wouldn't have thought of prior to taking the course
- helped me to think of research questions that I wouldn't have thought of prior to taking the course
- improved my understanding of how research on genetics informs clinical care
- contributed to my professional development
- increased my ability to secure research funding

53. What was your level of genetics knowledge coming into the Summer Genetics Institute? Would you say you were:

- A Novice
- An Expert
- Something in between novice and expert
- Don't know
- Not applicable

54. Did you take the Summer Genetics Institute as a “refresher” course on genetics?

Yes

No

Don't know

Not applicable

55. If you were a student at the time you took the Summer Genetics Institute, did you have the opportunity to take a similar genetics course at your school during your course of study?

Yes

No

Don't know

Not applicable

56. If you were a faculty member or clinician at the time you took the Summer Genetics Institute, did you have the opportunity to take a similar genetics training at your institution?

Yes

No

Don't know

Not applicable

57. Did any of the following factors influence your decision to seek out genetics training at NIH rather than another location? (*Check all that apply*)

Could not obtain similar training at my location

Reputation of the Summer Genetics Institute

Reputation of NINR

Reputation of NIH

Recommended by a colleague

Recommended by a mentor

58. How did you leverage your Summer Genetics Institute training? After completing the SGI, did you:
(Check all that apply)

Seek out additional training in genetics

Seek out additional mentoring in genetics

Seek out additional collaborations in genetics

Seek out leadership positions in genetics

FINAL THOUGHTS

1. What are the 1 or 2 biggest strengths of the Summer Genetics Institute?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

2. What are 1 or 2 aspects of the Summer Genetics Institute that could be improved?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

3. What is your biggest takeaway from the Summer Genetics Institute?

[Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]

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If you have any other comments about the Summer Genetics Institute that you would like to share, please use the box below [Please do not include any personally identifiable information about yourself in your response, such as your name, e-mail address, or the name of your university/workplace.]:

IMPORTANT By clicking on the **Finish** button, you are submitting your responses to the NINR team.

You will have a chance to review and edit your responses after clicking Finish. Please do not use the browser BACK button.

SURVEY CLOSING

Thank you for taking the time to complete this important survey. We appreciate your time and your feedback on the Summer Genetics Institute.