Instrument Development for Biological Research
ASSESSMENT SURVEY

This survey covers NSF Instrument Development for Biological Research (IDBR) awards issued during fiscal years 2011-2016. Please respond to the questions taking into account the IDBR award you received during 2011-2016. Your responses will be used to help shape the future direction of the IDBR program. Thank you.

1. Please select the instrument category that best describes the type of instrumentation developed under your IDBR award.

   - o Genomics
   - o Imaging
   - o Microfluidics
   - o Microscopy
   - o Proteomics
   - o Sensor
   - o Spectroscopy
   - o Other

   If other, please specify: _____

2. Is the instrument's development integrated into undergraduate or graduate level course work?

   - o Yes, both
   - o Yes, graduate
   - o Yes, undergraduate
   - o No

3. Is the instrument's use integrated into undergraduate or graduate level course work?

   - o Yes, both
   - o Yes, graduate
   - o Yes, undergraduate
   - o No

4. How many undergraduate students were supported and trained in your laboratory and co-PI's laboratory under this award?

Number =

5. How many graduate students were supported and trained in your laboratory and co-PI's laboratory, under this award?

   Number =

6. How many postdoctoral fellows were supported and trained in your laboratory and co-PI's laboratory, under this award?

   Number =

7. As of today, what is the number of peer reviewed publications resulting from the award?

   Number =

8. As of today, to what degree (as a percentage) have you completed the instrument as described in the proposal?

   - o 0% - 25%
   - o 26% - 50%
   - o 51% - 75%
   - o 76% - 100%

9. As of today, how many Ph.D. level scientists (outside of those named in your proposal) have used the instrument to conduct research?

   Number at your institution =
   Number at other institutions =

10. If your award term has completed, did you successfully complete your dissemination plan as stated in your proposal?

    - o Yes
    - o No
    - o Not Applicable

11. Have you sought additional NSF or Non-NSF funding to further develop the instrument with the goal of commercializing it? (Please check all that apply)

- o Type B IDBR
- o NSF SBIR
- o NSF STTR
- o NSF ICorps
- o No, I have not.
- o Other (Non-NSF)

If other, please specify: _____

12. Have you successfully <u>received</u> additional funding to further develop the instrument with the goal of commercializing it? (Please check all that apply)

- o Type B IDBR
- o NSF SBIR
- o NSF STTR
- o NSF ICorps
- o No, I have not.
- o Other (Non-NSF)

If other, please specify: _____

13. Did you apply for any patents as a result of this award?

- o Yes
- o No

14. Were any patents issued as a result of this award?

- o Yes (Please provide numbers)
- o My patents are pending
- o No

Patent #: _____

15. Have you successfully licensed the instrument?

- o Yes, we have licensed the instrument.
- o We are planning to license the instrument.
- o We have no plans for licensing the instrument.

16. Have you successfully commercialized the instrument?

- o Yes, the instrument is on the commercial market.
- o No, the instrument is not on commercial market yet.
- o No, we never had plans to commercialize the instrument.

17. What do you find to be the barriers to instrument dissemination? (Choose as many as are applicable)

- o Insufficient funds
- o Insufficient interest from the community
- o Insufficient support and resources from my institution
- o Insufficient time
- o Lack of success in developing the proposed instrument
- o Other

If other, please specify: _____

18. What do you find to be the barriers to instrument commercialization? (Choose as many as are applicable)

- o I am not aware of the availability of resources to achieve this aim
- o I don't see this as a goal
- o Insufficient support and resources from my institution
- o Insufficient time
- o Lack of interest from commercial sources
- o Lack of success in developing the proposed instrument
- o Other

If other, please specify: _____

19. What are the most significant impacts of the IDBR program on instrument development research?

20. What changes should be made to the IDBR program to make it more relevant to the instrument development research community that is interested in addressing the needs of biological research?