**First survey**

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| --- |
| Instructions A ‘scientific instrument’ is any kind of equipment used while conducting research (both measurement and analysis). Such scientific instruments are usually listed in the methods section of a peer reviewed paper. If the product has been purchased, the firm producing the product will often also be named.  When a product and the producing firm is mentioned in the methods section of a paper, this constitutes a ‘reference’ to the scientific instrument.  Please answer the questions based on your best recollections. It is not necessary for you to investigate your files to collect data. If you have any questions, please contact us via e-mail |

*First, a few questions about you and your research*  
What is your primary field of research?

(1) ❑ Biological sciences

(2) ❑ Physical sciences

(3) ❑ Chemical sciences

(4) ❑ Medical and health sciences

(5) ❑ Engineering

(6) ❑ Agricultural sciences

(7) ❑ Other \_\_\_\_\_\_\_\_\_\_

What is your current employment status?

(1) ❑ Professor

(2) ❑ Associate professor

(3) ❑ Assistant professor

(4) ❑ Post-doc

(5) ❑ PhD student

(6) ❑ Other \_\_\_\_\_\_\_\_\_\_

You are

(1) ❑ Male

(2) ❑ Female

In what year where you born?  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is your highest academic degree?  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In what year did you receive this degree?  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What has been your average annual research budget, over the last 5 years?

(1) ❑ Less than 100.000 $ / 80.000 €

(2) ❑ 100.000 to 500.000 $ / 80.000 to 400.000 €

(3) ❑ 500.000 to 1.000.000 $ / 400.000 to 800.000 €

(4) ❑ 1.000.000 to 5.000.000 $ / 800.000 € to 4.000.000€

(5) ❑ More than 5.000.000 $ / 4.000.000 €

What percentage of your ongoing research budget comes from Government research programs or other government funds?

(1) ❑ 0-25 %

(2) ❑ 26-50 %

(3) ❑ 51-75 %

(4) ❑ 76-100 %

*In the following we ask questions about your use of scientific instruments and the role of the price of the scientific instruments that you use*

Do you use scientific instruments in your research?

(1) ❑ Yes

(2) ❑ No

How important is the use of scientific instruments for your work?

(1) ❑ Very important

(2) ❑ Important

(3) ❑ Moderately important

(4) ❑ Slightly important

(5) ❑ Not important at all

How frequently do you purchase instruments?

(1) ❑ At least once every month

(2) ❑ At least once every quarter

(3) ❑ At least twice every year

(4) ❑ At least once every year

(5) ❑ Almost never

How important is the price of the instrument when planning to purchase an instrument?

(1) ❑ Very important

(2) ❑ Important

(3) ❑ Moderately important

(4) ❑ Slightly important

(5) ❑ Not important

How much did the most expensive instrument that you currently use cost?

(1) ❑ Less than 1.000$ / 800 €

(2) ❑ 1.000 - 10.000$ / 800 - 8.000 €

(3) ❑ 10.000 - 100.000$ / 8.000 - 80.000 €

(4) ❑ 100.000 - 1.000.000$ / 80.000 to 800.000 €

(5) ❑ More than 1.000.000$ / 800.000 €

*In order to answer the following questions, please think about your most recent purchase of a scientific instrument. We define a purchase here as you having actually purchased or formally applied for the scientific instrument.*  
  
Did you purchase this instrument in collaboration with others?

(1) ❑ Yes, other researchers in my group

(2) ❑ Yes, other research group(s)

(3) ❑ No

Were you in charge of purchasing this most recent scientific instrument?

(1) ❑ Yes, alone

(2) ❑ Yes, with others in my group

(3) ❑ Yes, with other research group(s)

(4) ❑ No

Did you collaborate with the firm producing the scientific instrument, after you purchased the instrument?

(1) ❑ Yes, extensively

(2) ❑ Yes, to some degree

(3) ❑ No

What was the price of this last instrument you purchased?

(1) ❑ Less than 1.000$ / 800 €

(2) ❑ 1.000 - 10.000$ / 800 - 8.000 €

(3) ❑ 10.000 - 100.000$ / 8.000 - 80.000 €

(4) ❑ 100.000 - 1.000.000$ / 80.000 to 800.000 €

(5) ❑ More than 1.000.000$ / 800.000 €

I think the functionality of the instrument is more important than the price

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

I think the academic reputation (among scientists and in journals) of the instrument is more important than the price

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

I think the commercial brand of the instrument is more important than the price

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

I think the academic reputation (among scientists and in journals) is more important than the commercial brand

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

I think the commercial brand is more important than the functionality of the instrument

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

I think the academic reputation (among scientists in journals) is more important than the functionality of the instrument

| Strongly agree | Agree | I don't know | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- |
| (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

*In the following we would like you to consider a situation where you are about to purchase a scientific instrument*  
  
What kind of information do you rely on?

|  | Always | Very often | Sometimes | Rarely | Never |
| --- | --- | --- | --- | --- | --- |
| I rely on input from others | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on colleagues that I am currently collaborating or have collaborated with | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on getting input at technical conferences, workshops and fairs | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on salespersons from the firm producing and selling the instrument | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on written information (website, brochures) of the firm producing and selling the instrument | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on the brand of the firm producing and selling the instrument | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on having seen the product referenced in a peer reviewed paper | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I rely on having used the product myself | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

*In the following we would like you to consider a situation where you are about to purchase a scientific instrument*   
  
  
How important are references to the instrument in

|  | Very important | Important | Moderately important | Slightly important | Not important |
| --- | --- | --- | --- | --- | --- |
| a peer reviewed journal | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| an article written by a star-scientist | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| a journal with a high-impact factor | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| an article that is (co)authored by someone from industry | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| an article where the product and firm referenced is (co)authored by someone from the particular firm that produced the instrument | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

*In the following we would like you to think of your typical use of scientific instruments*  
  
When choosing to buy a scientific instrument, references in high-impact journals are more important for expensive instruments than for cheap instruments.

(1) ❑   Strongly agree

(2) ❑   Agree

(3) ❑   Neither agree nor disagree

(4) ❑   Disagree

(5) ❑   Strongly disagree

When choosing to buy a scientific instrument, input from colleagues is more important for expensive instruments than for cheap instruments.

(1) ❑   Strongly agree

(2) ❑   Agree

(3) ❑   Neither agree nor disagree

(4) ❑   Disagree

(5) ❑   Strongly disagree

*Finally a few questions about your publications, patents and affiliation*  
  
In the past five years, how many new patent applications have been submitted on your inventions?  
(if none, please enter 0)

\_\_\_\_\_\_\_\_\_\_

Have any of your inventions led to any commercial activities?

(1) ❑ Exploration of the possibility of creating a new firm (such as presenting a business plan to potential investors)

(2) ❑ Creation of a new firm

(3) ❑ Receipt of licensing income

(4) ❑ Negotiation with an existing firm over the use of your invention

(5) ❑ Other kinds of commercial activities

(6) ❑ No commercial activities

In the past five years, how many papers have you published in refereed journals (including co-authored papers)?  
(if none, please enter 0)

\_\_\_\_\_\_\_\_\_\_

What do you consider to be the highest-ranked journal that you have published in?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many publications do you have in this journal?

\_\_\_\_\_\_\_\_\_\_

What is your current academic affiliation?

|  |  |
| --- | --- |
| University | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Department | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

In what year did you join your current organization?

\_\_\_\_

|  |
| --- |
|  |

Second survey

1) In the following we would like you to consider a situation where you are about to purchase a scientific instrument.  
  
When you consider the different options, how reliable do you find

|  | Very reliable | Moderately reliable | I don't know | Slightly reliable | Not at all reliable |
| --- | --- | --- | --- | --- | --- |
| a reference in a peer reviewed journal | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| a reference in a peer reviewed article written by a star-scientist | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| a reference in a peer reviewed journal with a high-impact factor | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| a reference in a peer reviewed article that is (co)authored by someone from industry | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| a reference in a peer reviewed article where the product and firm referenced is (co)authored by someone from the particular firm that produced the instrument | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |

2) How reliable do you find the following sources of information

|  | Strongly agree | Agree | Neither agree nor disagree | Disagree | Strongly disagree |
| --- | --- | --- | --- | --- | --- |
| I find input from colleagues that I am currently collaborating or have collaborated with reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I find input from technical conferences, workshops and fairs reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I find salespersons from the firm producing and selling the instrument reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I find written information (websites, brochures) of the firm producing and selling the instrument reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I find the brand of the firm producing and selling the instrument reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |
| I find references in peer reviewed papers to be reliable | (1) ❑ | (2) ❑ | (3) ❑ | (4) ❑ | (5) ❑ |