

# NeuroID Skills Self-Assessment Class 2014



## Preliminary Results

### A. General Research

Your Knowledge in....	Very Low	Low	Average	High	Very High
1. Neurosciences Research	--	62.5%	37.5%	--	--
2. Neuroethics	--	87.5%	12.5%	--	--
3. Advanced research techniques (e.g. protein mass spectrometry, immunohistology and electrophysiology)	62.5%	25.0%	12.5%	--	--
4. Responsible conduct in research	--	12.5%	25.0%	62.5%	--
5. Basic Knowledge in Neuroscience	--	25.0%	50.0%	25.0%	--
6. Experimental design	25.0%	25.0%	37.5%	12.5%	--
7. Laboratory Safety Protocols (Rules)	--	--	37.5%	25.0%	37.5%

### B. Laboratory Research Skills

Your Skills and Proficiency in....	Very Low	Low	Average	High	Very High
8. Keep a laboratory notebook	--	25.0%	25.0%	25.0%	25.0%
9. Adopt the scientific method to carry out a research project	--	25.0%	37.5%	25.0%	12.5%
10. Determine the appropriate laboratory protocols to conduct experiments.	12.5%	12.5%	62.5%	12.5%	--
11. Identification of gap-in-knowledge	12.5%	12.5%	37.5%	12.5%	25.0%
12. Development of plausible hypothesis	--	25.0%	50.0%	12.5%	12.5%
13. Manipulate the laboratory instruments and equipment properly.	--	--	75.0%	25.0%	--
14. Carry out experiments with a minimum of supervision	--	25.0%	37.5%	37.5%	--
15. Data analysis	12.5%	--	75.0%	12.5%	--

Your Skills and Proficiency in....	Very Low	Low	Average	High	Very High
16.Critical interpretation of scientific literature	12.5%	--	62.5%	25.0%	--
17.Prepare reports about the investigation work	--	50.0%	37.5%	12.5%	--
18.Networking and establishing collaborative research work	--	62.5%	37.5%	--	--

### C. Research Articles

BEFORE my participation in NeuroID, I can describe my Skills & Proficiency in....	Very Low	Low	Average	High	Very High
19.Extract the main hypothesis of research articles	--	12.5%	50.0%	25.0%	12.5%
20.Understand the use of control samples	12.5%	--	37.5%	37.5%	12.5%
21.Understand the limitations of the techniques used in the research articles	12.5%	25.0%	50.0%	12.5%	--
22.Critically evaluate the conclusion reached by the authors in the research article	12.5%	12.5%	12.5%	62.5%	--
23.Summarize research articles	--	12.5%	37.5%	50.0%	--

### D. Presentation skills

Your Skills in....	Very Low	Low	Average	High	Very High
24.Abstract preparation	25.0%	12.5%	37.5%	25.0%	--
25.Preparation of manuscript	25.0%	12.5%	37.5%	25.0%	--
26.Preparation of an oral presentation	--	--	62.5%	37.5%	--
27.Preparation of a poster presentation	25.0%	62.5%	12.5%	--	--
28.Use of presentation programs (ex. Power Point, Publisher)	--	--	37.5%	50.0%	12.5%
29.Communicate research results to the scientific community	12.5%	37.5%	50.0%	--	--
30.Communicate research results to the general community	37.5%	25.0%	37.5%	--	--

### E. Career Development

Your Knowledge about...	Very Low	Low	Average	High	Very High
31.Summer Internships Opportunities	--	37.5%	25.0%	25.0%	12.5%
32.Neurosciences Graduate Programs	12.5%	37.5%	37.5%	12.5%	--
33.The process of Mentor Selection	--	50.0%	25.0%	12.5%	12.5%
34.The process of applying for a pre-doctoral fellowship	62.5%	25.0%	--	--	12.5%

## Surveyed Students Profile:

- **Gender:**
  - 62.5% Female
  - 37.5% Male
  
- **Current Academic Institution Affiliation:**
  - 75.0% UPR- Río Piedras
  - 12.5% Universidad Interamericana – Bayamón
  - 12.5% Universidad Sagrado Corazón
  
- **Academic concentration:**
  - 87.5% Biology
  - 12.5% Biotechnology
  
- **How did you learn or find about NeuroID program?**
  - Word of mouth
    - I hear from a friend (12.5%)
    - I heard from a professor (12.5%)
    - I hear from another NeuroID Student (50.0%)
  - By email (12.5%)
  - Search Engine (12.5%)