

# **Writing a Scientific Research Paper**

Writing a high quality scientific research paper is one of the most difficult and important aspects of science. The goal of this brief tutorial is to lay out some key concepts in the process of writing a scientific paper. We will not cover methods for any one field, but rather, provide a general approach to the process. For help with specifics within your field, your best bet is to ask your advisor or other members of your lab for assistance.

## **When am I ready to write?**

The simple answer here is this: when you can prove something that is novel and important. You must have sufficient data to tell a story that reveals something new about nature that is also important. Obviously, you must have a thorough knowledge of the available literature to gauge your results. Additionally, it is essential that you are able to repeat your experiments and achieve the same results. Finally, your advisor will usually give you a "thumbs up" to write when the time is right.

## **Ok, so I have a story. What do I do now?**

The first thing to do is to just get something down on paper. Don't worry too much about the quality of what you are writing at this point. It is critical to something written since it will help you to overcome writer's block. Once you have written your first paper you will find that constant revision is part of the writing process. Therefore, your mission is to get ideas down for each section so that you have something to mould into your final masterpiece.

Typically, a scientific paper consists of the following sections (in order): Title, Abstract, Introduction, Materials and Methods, Results, Discussion / Conclusions, and References. Although this is the order in which the sections will appear in your paper, they are often written out of turn. For instance, your References section will be worked on throughout the writing process. Oftentimes, the easiest section to start with is the Materials and Methods section. Let's start there.

### **Materials and Methods**

This section consists of what you actually did. For instance, you'll describe any software you used, a new technique you invented, what organisms were cultured, etc. You need to be specific about how you did things such that another researcher can repeat your experiments. This section is typically the easiest to write because you have presumably done your experiments many times. Therefore, they should be second nature to you and writing about them should just be a matter of recalling them from memory. Once you have a rough amount of material down for this section, you are ready to begin writing others.

# Sample Scientific Research Paper

**J Ma**



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