Scientific Research Proposal Checklist

Abstract -
◊ Summary of research

Introduction and Literature Review -
◊ Provide background information and theory relevant to the experiment proposed
◊ Explain overall theme of the experiment that will be conducted
◊ If specific organisms are to be used, introduce species by scientific name
◊ State motivation behind study

Research Hypothesis -
◊ Explicitly list objectives
◊ State hypotheses
◊ State predicted outcomes

Methods -
◊ Describe experimental design without too much or too little detail
◊ Describe controls
◊ Describe replicates

Conclusion and Justification -
◊ State why the study is important
◊ How will it advance scientific knowledge?
◊ Will it change any policies or practices?

Bibliography -
◊ All sources used in the text are cited here
◊ Sources not used in the text are not cited here
◊ Citations are formatted correctly

Created by a UConn Writing Center Science Liaison