

## Spectra Undergraduate Research Journal

### Manuscript Template

Please see the following template for all manuscripts submitted to Spectra Undergraduate Research Journal including:

- 1) Primary research articles
- 2) Primary review articles
- 3) Research protocol articles, and
- 4) Thesis-based research articles can use this template to help prepare their manuscript.

1 **Full Title Page**

2 **The title of the article**

3 Full author names and credentials (e.g. First M. Last, BSc Student<sup>1\*</sup>, First M. Last, PhD<sup>2</sup>)

4 <sup>1</sup>Department of X, University of Y, City, State, Country, Postal, Email Address

5 <sup>2</sup>Department of W, University of Z, City, State, Country, Postal, Email Address

6

7 **\*Corresponding author**

8 \*Corresponding author's email address goes here

9

10 **Author ORCID ID#**

11 Full Name: <https://orcid.org/0000-0000-0000-0000>

12

13 **Abstract:** Not to exceed 250 words

14 **Introduction:** Concisely describe the context and purpose of your research

15 **Methods:** Concisely describe how the research was conducted and quantitative or qualitative methods and  
16 techniques used without details

17 **Results:** Summarize your most important and main findings

18 **Discussion:** Concisely describe the study implications and future directions

19

20 **Keywords**

21 keyword1; keyword2; keyword3; keyword4; keyword5; keyword6

22

23 **Introduction**

24 **Research objective(s):** Describe the main objective(s) of your research

25 **Conceptual/theoretical framework(s):** Embed your research within relevant and pertinent theoretical or  
26 explanatory framework(s) and note any relevant controversies or disagreements in the field

27 **Literature review and background:** Include a brief review of the key literature and provide background  
28 that puts the manuscript into context and allows readers outside the field to understand the purpose and  
29 significance of the study

30 **Significance and contribution(s):** Define the problem addressed and why it is important

31 **Research question(s):** Present your specific research questions

32

33 **Methods**

34 **Design and protocol:** Provide enough detail to allow suitably skilled investigators to fully assess and  
35 replicate your study

36 **Materials and sampling:** Provide details about your materials, sample size, and sampling strategy

37 **Types of analysis:** Provide details about your analytical framework and techniques

38

39 **Results**

40 Present your results and describe your key findings

41

42 **Discussion**

43 Interpret your results

44

45 **Conclusions**

46 **Main conclusions:** Describe the conclusions that can be drawn and/or can be generalizable

47 **Importance to the field:** Explain how the results relate and contribute to your field

48

49 **Broader implication and future directions**

50 Provide a succinct explanation of the implications of the findings, particularly in relation to previous  
51 related studies and potential future directions for research

52

### 53 **List of abbreviations used**

54 If abbreviations are used in the text they should be defined in the text at first use written in full with the  
55 abbreviation in parentheses. A complete list of all abbreviations used should be provided in a section  
56 called List of Abbreviations directly following the Conclusions section.

57

### 58 **Conflicts of Interest**

59 Declare any real, potential, or perceived conflicts of interest between the duties or responsibilities related  
60 to research, and personal, institutional or other interests associated with each author. Conflicts of interest  
61 can exist when an author's interpretation of data or presentation of information may be influenced by their  
62 personal or financial relationship with other people or organizations. If all authors have no conflicts of  
63 interest, please state "The author(s) declare that they have no conflict of interests."

64

### 65 **Ethics Approval**

66 If the study reported in your manuscript requires review by your institution's review board (IRB), please  
67 provide the details in this section. If your study involved human participants, please describe the steps  
68 taken to gain the consent of the study participants.

69

### 70 **Authors' Contributions**

71 According to the International Committee of Medical Journal Editors (ICMJE), authorship credit should  
72 be based only on substantial contributions to:

- 73 1. Conception and design, analysis and interpretation of data
- 74 2. Drafting the article or revising it critically for important intellectual content
- 75 3. Final approval of the version to be published.

76 Please outline the contributions made by each author marked by their initials:

77 ABC: contributed to the research design, collected and analyzed data, drafted the manuscript, and  
78 approved the version to be published.

79 DEF: contributed to the research design and planning, assisted with data collection and analysis, approved  
80 the version to be published.

81 GHI: substantially contributed to the research design, data collection, analysis, and interpretation, revised  
82 the manuscript critically, and approved the version to be published.

83

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86 authorship. Examples of such contributors include those who provided purely technical help, writing  
87 assistance, a department chair who provided only general support, or those who contributed as part of a  
88 large collaboration group. Authors should obtain permission to acknowledge all those mentioned in the  
89 Acknowledgements section.

90

## 91 **Funding**

92 Please include all funding sources associated with your study. If the study was unfunded, please state  
93 “This study was not funded”.

94

## 95 **References**

96 Primary research articles, primary review articles, research protocol articles, and thesis-based research  
97 articles must use “APA style” and authors submitting such work should consult The Publication Manual  
98 of the American Psychological Association, Seventh Edition for specific guidelines and instructions.

99

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101 style” and consult the following links for specific guidelines and instructions.

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