

Appendix 1. Summary of student-run journals. Additional involvement includes graduate students and professionals (PhDs and faculty members)

Journal Name	Authorship Restriction	Mission Statement	Institute	Indexing	Publicity
<b>High School Student-Run Journals</b>					
<b>The National High School Journal of Science</b> ( <a href="http://nhsjs.com/">http://nhsjs.com/</a> )	None	To promote scientific concepts to the high school community	Inter-institute	None	Social media
<b>Undergraduate Student-Run Journals</b>					
<b>STEM Fellowship Journal</b> ( <a href="http://journal.stemfellowship.org/journal/sfj">journal.stemfellowship.org/journal/sfj</a> )	None	To provide a platform for internet generation scholars and their approach to scientific inquiry	Inter-institute	None	Social media, newsletters
<b>Canadian Journal of Undergraduate Research</b> ( <a href="http://cjur.ca/">cjur.ca/</a> )	None	To provide accessible opportunities for students to publish academic articles	University of British Columbia	None	Social media
<b>The Meducator</b> ( <a href="http://meducator.org/">meducator.org/</a> )	Undergraduate students	To publish articles that address current issues with a high degree of scientific rigor, but are also accessible to a broad audience	McMaster University	Google Scholar	Social media, newsstands on campus
<b>Journal of Undergraduate Life Sciences</b> ( <a href="http://juls.ca">juls.ca</a> )	None	To promote undergraduate life science research at UofT	University of Toronto	None	No response
<b>Galbraith Undergraduate Engineering Journal</b> ( <a href="http://jps.library.utoronto.ca/index.php/galbraith">jps.library.utoronto.ca/index.php/galbraith</a> )	None	To give engineering undergraduate students the ability to publish and get feedback from professors	University of Toronto	University of Toronto Library	Social media, posters and TV ads on campus
<b>IMPULSE: The Premier Undergraduate Neuroscience Journal</b> ( <a href="http://impulse.appstate.edu/">impulse.appstate.edu/</a> )	Undergraduate authors under the mentorship of a faculty advisor	IMPULSE is the first international, online neuroscience journal for undergraduate publications	Inter-institute	EBSCO	Social media, conferences
<b>PSSJ (Pharmaceutical Sciences Student Journal)</b> ( <a href="http://ubcpssj.org">ubcpssj.org</a> )	None	To encourage students to pursue research and contribute their thoughts to the scholarly dialogue on a variety of topics	University of British Columbia	UBC	No response
<b>University of Alberta Health Sciences Journal</b> ( <a href="http://uahsj.ca">uahsj.ca</a> )	None	To open the process of peer-review to students	University of Alberta	None	Email, newsletters
<b>University of Western Ontario Medical Journal</b> ( <a href="http://uwomj.com">uwomj.com</a> )	None	To provide a forum for original articles based on research or clinical medicine of topic or historical interest	University of Western Ontario	Google Scholar	Social media, collaborations with clubs on campus
<b>Elements - The Undergraduate Research Journal of Boston College</b> ( <a href="http://bc.edu/research/elements">bc.edu/research/elements</a> )	Undergraduate students at Boston College	To showcase the variety of research endeavors of fellow undergraduates to the greater academic community	Boston College	Google Scholar	Social media, campus marketing, faculty outreach
<b>Michigan Journal of Medicine</b> ( <a href="http://michjmed.org">michjmed.org</a> )	Medical students and PhD students	No response	University of Michigan	None	Social media
<b>Western Undergraduate Research Journal: Health and Natural Sciences (WURJHNS)</b> ( <a href="http://ir.lib.uwo.ca/wurjhns">ir.lib.uwo.ca/wurjhns</a> )	Undergraduate students in the health, natural, and medical sciences	To inspire and motivate undergraduate students to pursue research and realize their scientific potential	University of Western Ontario	Google Scholar	Classroom marketing, collaborations with clubs on campus, conferences

<b>Pursuit: The Journal of Undergraduate Research at the University of Tennessee</b> (trace.tennessee.edu/pursuit)	Undergraduate students	To publish the scholarly work of undergraduates of all disciplines	University of Tennessee	None	None
<b>Northwestern Undergraduate Research Journal</b> (thenurj.com)	None	To showcase Northwestern's undergraduate research	University of Northwestern	None	School-funded
<b>University of Maryland Baltimore County Review</b> (ur.umbc.edu/umbc-review)	University of Maryland Baltimore undergraduates and alumni	To showcase original and innovative undergraduate research conducted at UMBC	University of Maryland	None	Social media, flyers, website posts, presentations
<b>The Catalyst</b> (bioe.umd.edu/thecatalyst)	University of Maryland students	To inspire students to conduct research in bioengineering and biotechnology.	University of Maryland	None	Social media, email
<b>The Augsburg Honors Review</b> (honorsreview.wordpress.com)	Undergraduate students	To provide a source for quality undergraduate research	Augsberg College	None	In-person marketing, conferences
<b>The Carthage Vanguard</b> (www.carthage.edu/vanguard)	None	To allow students to celebrate and inspire the ideas of fellow students	Carthage College	None	Social media
<b>Undergraduate Student-Run Journals with additional involvement*</b>					
<b>Yale Journal of Biology and Medicine</b> (medicine.yale.edu/yjbm)	None	To publish exciting findings in topics of interest relevant to science and medicine	Yale	Pubmed	Indexation and open-access status Social media, news releases, posts, campus digital bulletins, classroom presentations, department meetings
<b>University of Saskatchewan Undergraduate Research Journal</b> (usask.ca/urj)	U of Saskatchewan students or recent alumni	To celebrate undergraduate contributions to research and publish quality research & review articles by undergraduates	University of Saskatchewan	Google Scholar	Social media, website, flyers
<b>WPI Undergraduate Research Journal</b> (wurj.org)	Undergraduate students	To provide a venue to share impressive student research achievements with the campus and larger academic community.	Worcester Polytechnic Institute	None	Website, use in undergraduate courses
<b>The Journal of Psychology and the Behavioral Sciences</b> (http://view2.fdu.edu/academics/becton-college/psychology-and-counseling/jpbs/)	1st authors must be undergraduate students	To acknowledge the student-mentor relationship leading to publication.	Fairleigh Dickinson University	None	
<b>Graduate Student-Run Journals</b>					
<b>Medical Student Research Journal</b> (msrj.chm.msu.edu)	First author must be a current medical student	To promote scientific advancements of medical students and teach principles of peer review and article review	Michigan State	None	Social media
<b>Journal of Undergraduate Research in Alberta</b> (journalhosting.ucalgary.ca/index.php/jura)	The first author must be an undergraduate student	To facilitate undergraduate publishing and distribute undergraduate research	University of Calgary	Google Scholar	Social media
<b>Graduate Student-Run Journals with additional involvement*</b>					

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**International Journal of  
Exercise Science**  
(digitalcommons.wku.edu/ijes)

None

To engage undergraduate and graduate  
students in scholarly activity as authors and  
reviewers as they develop into  
professionals

Western Kentucky  
University

Google Scholar

Social media

Appendix 2: Survey questions. The survey was created and distributed through google forms.

## Survey of Student-run Academic Journals

This questionnaire will be used for a research project titled "Student-Run Academic Journals: A New Trend in Scholarly Communication" conducted by STEM Fellowship. STEM Fellowship is a non-profit organization that offers high school and university students interested in STEM a platform to discuss and develop novel ideas (<http://stemfellowship.org/>). STEM Fellowship also runs a peer-review, open access journal that is published by Canadian Science Publishing.

The conclusions drawn from this questionnaire will be presented at the 2017 American Association for the Advancement of Science (AAAS) annual meeting (<http://www.aaas.org/>), hoping to shed light on the roles that student journals play in disseminating student research. The results may also be presented at the Council of Science Editors (CSE) (<https://www.councilscienceeditors.org/>), and Peer Review Congress (<http://www.peerreviewcongress.org/>) conferences. Your participation in this questionnaire contributes to research which increases awareness for student-run academic journals and student leadership and innovation in scholarly writing on an international level. As student leaders in research, your honest insights are greatly valued and will definitely serve to improve the student scientific community.

We're asking for your email address simply to keep you informed on the progress of this project and in case we require follow-up to some of your answers. Your personal identity and the organization you represent will remain anonymous. In addition, there is the opportunity to join the dialogue on student involvement in research and scholarly writing at the aforementioned conferences if you choose to remain in contact with STEM Fellowship. We look forward to your continued involvement in the process as you help make a difference in the student scholarly writing community.

This questionnaire should take approximately 20 minutes.

\* Required

1. **Email address \***

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## Participant Waiver

2. **By checking the following box, you agree to have your responses analyzed and presented to the general public by STEM Fellowship. Your name or any identifying information about you will not be released. \***

*Check all that apply.*

- Agree  
 Disagree

## Primary Questions

3. **What is the name of your journal? \***

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4. **What is your role in the journal? \***

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5. **How long have you been involved with the journal? \***

*Mark only one oval.*

- <6 months
- 6 months - 12 months
- 1 year - 2 years
- 2+ years

## Journal Background Information

6. **In which year was your journal established? \***

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7. **How often do you publish issues? \***

*Mark only one oval.*

- Quarterly
- Biannually
- Annually
- Other: \_\_\_\_\_

8. **How many articles are published in each issue (on average)? \***

*Mark only one oval.*

- 1-5
- 6-10
- 11-15
- 15+

9. **Describe your target audience (15 words or less) \***

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10. **Check the options which describe your journal \***

*Check all that apply.*

- Society based
- Discipline based
- Interdisciplinary
- For High School Students
- For Undergraduate Students
- For Graduate Students
- Other: \_\_\_\_\_

11. **Do you use a publication service or program (Indesign, OverLeaf, etc.) for layout design ?  
If so, which service do you use? \***

\_\_\_\_\_

12. **Which best describes your journal? \***

*Mark only one oval.*

- Open access
- Subscription based
- Other: \_\_\_\_\_

13. **Does your journal predominantly publish authors in your local area or institution? \***

*Mark only one oval.*

- Mostly Local (more than half of submissions)
- From various institutions (less than half of submissions from local institution)

14. **Is your journal published by a professional publisher? If yes, please name the publisher.  
\***

\_\_\_\_\_

15. **How is your journal distributed? \***

*Mark only one oval.*

- Online
- Print
- Online and Print
- Other: \_\_\_\_\_

16. **How many issues have you published so far?** \*

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## Journal Management

17. **Which of the following groups best describes how your journal is run?** \*

*Check all that apply.*

- Undergraduate Students/Medical Students
- Graduate Students
- Professional (PhD/Faculty Members)
- Other: \_\_\_\_\_

18. **Which of the following groups best describes your editorial board? (Select all that apply)** \*

*Check all that apply.*

- Undergraduate Students/Medical Students
- Graduate Students
- Professional (PhD/Faculty Members)
- Other: \_\_\_\_\_

19. **How large is your editorial board?** \*

*Mark only one oval.*

- 1-5
- 6-10
- 11-15
- 16-20
- 20+

20. **What is the mission statement for your publication (less than 15 words)?** \*

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21. **Is your journal part of a larger organization? If so, how does it contribute to the larger organization's mission? \***

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22. **Please name the institution or society that your journal is associated with**

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23. **How do you gain further traction for your published articles? (social media, marketing, etc.)**

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24. **Have you ever heard of or do you use Altmetric? <https://www.altmetric.com/>**

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25. **Would you consider transition of management a major issue in your student journal? Please explain your answer in 1-2 sentences.**

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## **Review Methods**



26. **Do your editors normally have a strong background in the area of papers that are assigned to them? \***

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27. **How do your student editors tackle research they're unfamiliar with?**

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28. **Do your student editors receive any type of training? If so, what does the training consist of?**

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29. **Are your student editors contributors to the journal? If so, how regular do they contribute?**

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30. **Which describes your peer-review system best?**

*Mark only one oval.*

- single-blind
- double-blind
- open
- crowdsources through expert forums
- Other: \_\_\_\_\_

31. **Do you have any degree requirements for your reviewers?**

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32. **How do you select and contact reviewers? Are they mostly from a specific institution?**

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33. **Would you identify recruiting reviewers as a major challenge for you?**

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34. **How does your editorial board communicate? How often?**

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35. **How many rounds of editing do manuscripts usually go through before acceptance/rejection?**

*Mark only one oval.*

- 1
- 1-3
- 3+

## **Manuscript Submission Management**

36. **What types of articles do you accept? \***

*Check all that apply.*

- editorials
- original research
- reviews
- opinion articles
- interviews
- Other: \_\_\_\_\_

37. **How many of each article type (listed above) do you publish on average in each issue?**

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38. **Do you use a specific software to manage your editorial flow (OJS, Editorial Manager, Google Drive, Other) \***

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39. **Do you have any fees associated with submissions and/or publication in your journal? If so, how much? \***

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40. **Do you restrict authorship to students of a particular group? If so, why? \***

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41. **Do you require submitted papers in health and behavioural sciences to be approved by an ethics board? \***

*Mark only one oval.*

yes

no

42. **Do you find it difficult to gather manuscript submissions? Please explain how you have dealt with the challenge in 1-2 sentences. \***

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43. **Have you heard of persistent identifiers such as DOI or ORCID? \***

*Mark only one oval.*

yes

no

44. **Do you use ORCID in your submission process? <http://orcid.org/> \***

*Mark only one oval.*

yes

no

45. **Do you use DOI numbers? \***

*Mark only one oval.*

yes

no

46. **Is your journal in any of these databases? (select all that apply) \***

*Check all that apply.*

- PubMed
- EMBASE
- Cochrane
- JSTOR
- Web of Science (Thompson Reuters)
- Google Scholar
- Scoops
- Other: \_\_\_\_\_

47. **Does your journal have an Impact Factor on any of the major databases? If so please provide your Impact factor and the associated database.**

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