Welcome to our Manuscript Writing Series Resource Guide!

Whether you’re new to writing scientific manuscripts or a seasoned researcher looking to refresh your writing and editing skills, this guide is your comprehensive companion for building impactful communication. Please explore these essential tips, guidelines, and resources to find material useful to you. This guide is presented to you by:

ICTR's Science Editing Services
Science Editor, Jen Merems PhD (she/her)

MCRI Office of Research and Sponsored Programs
Science Writer, David Puthoff PhD (they/he)

See what consulting resources these institutions have to offer listed at the end of this guide.

Manuscript Planning
Session 1

General
How-To Guide for Plain Language Summaries
Plain Language Summaries

Planning
Guide to writing a medical research manuscript
Five Tips for Developing a Research Question
How to Write a Literature Review
Tips for Writing the Results in a Research Paper
The Do's and Don'ts of Academic Writing
How to Create a Journal Manuscript Title Page
Five Steps to Publish a Journal Article in the Social Sciences
Selecting a Journal for Publication: Criteria to Consider
Five Tips to Develop a Problem Statement in Research
Invest in Your Introduction
Open Access and Predatory Publications
Strategies for effective collaborative manuscript development in interdisciplinary science teams
The Importance of Delegation for Scientists

Check indexing status of journals
Ebling Library Research Impact Support
Ebling Library Guide for Basic Literature Searches
Ebling Library Guide for Systematic/Scoping Reviews
Ebling Library Guide for a Journal to Publish your Research
Ebling Library How to Identify Predatory Journals
Ebling Library How to Identify Predatory Conferences

Writing Techniques
A Basic Guide to APA Style Citation
APA Style Citation Guide
How to Cite Journal Articles
How to Use “et al.”
Four Language Rules to Improve Academic Writing
Improve Your Paper by Writing Structured Paragraphs
I.e. vs. e.g.
AMA Manual of Style
Tech in Writing
Session 2

AI for Writing – Prompt Library Created by Dr. Ben Rush and Dr. Jevin Lortie

Considerations for Using Generative AI in Academic Writing Presented by: Heather Johnston, MA.

UW Madison

CISO's statement on use of generative AI

Generative AI @ UW–Madison: use and policies webpage

If you have specific questions about copyright law and AI, please contact the UW-Madison Office of Legal Affairs at 608-263-7400.

Other

Cybersecurity risk management (per UW-503 and the Cybersecurity Risk Management Implementation Plan)

If you have questions about data classification, consult the appropriate Data Steward

Sources

- Kingsley (2023) - Generative AI – the latest scapegoat for research assessment
- Parrilla (2023) - ChatGPT use shows that the grant-application system is broken
- Generative AI @ UW–Madison: use and policies webpage
- Else (2021) – ‘Tortured phrases’ give away fabricated research papers
- Else (2023) - Abstracts written by ChatGPT fool scientists
- Conroy (2023) - How ChatGPT and other AI tools could disrupt scientific publishing
- Conroy (2023) - Scientific sleuths spot dishonest ChatGPT use in papers

Appendices

Guidance from publishers/editors and funding agencies

<table>
<thead>
<tr>
<th>Publisher/editor</th>
<th>GAI use allowed?</th>
<th>Can GAI be author?</th>
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<tbody>
<tr>
<td>Nature (and other Springer Nature journals)</td>
<td>Yes, with disclosure</td>
<td>No</td>
</tr>
<tr>
<td>JAMA Network</td>
<td>Yes, with disclosure</td>
<td>No</td>
</tr>
<tr>
<td>Science Journals</td>
<td>Not for text, figures, images or graphics</td>
<td>No</td>
</tr>
<tr>
<td>Committee on Publication Ethics (COPE)</td>
<td>Yes, with disclosure</td>
<td>No</td>
</tr>
<tr>
<td>World Association of Medical Editors (WAME)</td>
<td>Yes, with disclosure</td>
<td>No</td>
</tr>
<tr>
<td>International Committee of Medical Journal Editors (ICMJE)</td>
<td>Yes, with disclosure</td>
<td>No</td>
</tr>
</tbody>
</table>
Beyond ChatGPT and Bard: Some tools and services

| Funding agency                      | GAI allowed for proposal prep?       | GAI allowed for peer review?
|-------------------------------------|--------------------------------------|---------------------
| National Institutes of Health (NIH) | Yes, at applicant’s risk             | No                  |
| American Heart Association (AHA)   | Yes, with disclosure                 | No                  |
| Wellcome Trust, UK                  | Yes, with disclosure                 | No                  |

Literature reviews/secondary research resources

- Avidnote, Consensus, Dimensions, Elicit, HeyScience, Inciteful, InfraNodus, Keenious, Laser AI, Lateral, Litmaps, MirrorThink, Prophy, R Discovery, Research Rabbit, Scholarcy, scite, Semantic Scholar, wisio.app

Proofreading, formatting resources

- Avidnote, Granteble, Granted, HeyScience, InfraNodus, Wordvice, DeepL (translation), Paperpal, Penelope, Trinka, wisio.app, Writefull

Protein structure prediction and design

- AlphaFold, Cradle, ProteinMPNN, RoseTTAFold

Coding/programming

- AlphaCode, Codex, Github Copilot, Snyk (DeepCode), Tabnine

Qualitative research

- InfraNodus (qualitative and thematic analysis), MAXQDA AI Assist (transcription, coding suggestions), Speak (qualitative research, interviews, focus groups), Whisper (transcription)

Miscellaneous

- Census GPT (explore US Census Data using natural language), DeepVariant (genomic analysis), DataSeer (facilitates data sharing), MirrorThink (math calculations, scientific market research), Polymer (data analytics)

How to cite GAI

APA, Chicago style, MLA

Citation Managers

Citation Management: UW Madison Library

Manuscript Manufacturing

Session 3

Authorship

Guidance on Authorship

How to navigate authorship of scientific manuscripts

Strategies for effective collaborative manuscript development in interdisciplinary science teams

Figures & Tables

Biorender & UW Media Solutions

Formatting

How to write a strong discussion in your manuscript

How to convey your most important ideas through your paper

How to structure the introduction of your manuscript

Guide to writing and publishing a scientific manuscript: Part 1 – The structure
In-person Editing sessions were not recorded.
We are a centralized, shared resource in the Marshfield Clinic Research Institute (MCRI) established in December 2017 referred to as ORSP. We provide essential resources to support research and community outreach within Marshfield Clinic. Our mission is to enrich research and health outcomes by creating a dynamic administrative environment open to helping those engaged in medical sciences and community outreach.

Areas of support:

- **Sponsored Programs** (Internal, Federal, State, Private Foundations and Industry Sponsored funding)
- **Research Integrity and Protections/Human Subjects in Research**
- **Scientific Writing, Publication and Editorial Assistance**
- **Administrative oversight for MCRI program initiatives** ([ICTR, WINHR, Scientific Review Committee, Communication Committee, Summer Internship Program, Post Doctoral Program, IFRA](#))
- **Research Navigation**
- **Clinical Medicine & Research** - A peer-reviewed medical research journal published by Marshfield Clinic Health System

For writing support, our **Scientific Writer, David Puthoff** (they/he), is available at any stage in the research process. Whether you need feedback in the ideas and drafting stage or the revisions—or anywhere in-between—David is a highly experienced writer with a small research appointment to better assist you! Email them at [puthoffdavid@marshfieldresearch.org](mailto:puthoffdavid@marshfieldresearch.org)

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**Websites**
- [SCOAReources](#)

**Guides**
- A brief guide to the science and art of writing manuscripts in biomedicine
- A Comprehensive Guide on Manuscript Writing
- Guidelines for Writing a Scientific Manuscript
- Writing a Scientific Manuscript
- 11 steps to structuring a science paper editors will take seriously
- Top 20 Manuscript Problems To Avoid
- Hints to writing your objectives
- Strategies for avoiding common problems with research manuscripts

**Templates**
- [Template for Writing a Successful Journal Manuscript](#)

**Recordings**
- [Scientific Manuscript Writing – Short Course](#)

**Other**
- [NSF Biosketch Format](#)
- [NIH Biosketch Format](#)
- [NIH Data Sharing Home](#)
- [Promoting cognitive complexity in graduate written work: Using Bloom’s taxonomy as a pedagogical tool to improve literature reviews](#)
ICTR’s Science Editing Services

We have a dedicated editor that will help strengthen and clarify your scientific documents by providing customized developmental and structural edits to meet the specific needs of your documents. Documents include manuscripts, grants, protocols, and other materials. Editing improves materials, but does not guarantee success. Request a consult here.

The scientific editor can help:

- Correct grammatical and typographical errors
- Improve sentence structure, paragraph organization, and flow
- Strengthen the scientific significance and impact
- Refine the language
- Identify inconsistencies
- Improve formatting and headings
- Reduce word count

ICTR’s Protocol Development Program

A well-written clinical research protocol is critical to successful study execution, regulatory compliance, participant protection and data integrity. We provide individualized developmental support with the goal of improving the quality of investigator-initiated clinical research and reducing the time from study conception to conduct. Request a consult here.

Complimentary services are available to faculty planning an investigator-initiated clinical research study (therapeutic, non-therapeutic, interventional and/or observational):

- Consultations specified for your project
- Suggestions for assistive services, with meetings attended by the navigator (if preferred)
- Scheduling service for Studio—a meeting to gather experts for advice
- Guidance on study design
- Assistance editing clinical research protocols
- Identification of appropriate protocol templates that fulfill Institutional Review Board (IRB) requirements for your study

ICTR’s Recruitment & Retention Resource Center

The Recruitment & Retention Resource Center is here to aid investigators and study teams in fulfilling enrollment goals and timelines through multifaceted strategies and collaborative consultations. Our free consultation service incorporates recruitment, retention, and engagement guidance from members of the Collaborative Center for Health Equity, Multisite Research Networks, and Dissemination & Implementation Launchpad. Request your free consultation here.

We can help you with:

- Planning for recruitment & retention
- Revising participant-facing materials
- Increasing diversity, equity, inclusion, and accessibility
- Engaging participant populations
- Navigating available resources

ICTR’s Multisite Research Services
The Multisite Research Team provides free consultations to investigators and study teams preparing and conducting multisite clinical trials. We advise teams on grant preparation, assist with site identification, and provide research resources. Request your free consultation [here](#).

Additionally, our team offers trial implementation services for the non-UW trial sites, including:

- Administrative Coordination & Project Management
- Protocol Design Assistance
- Site Selection & Management
- Regulatory
- Site Training & Study Start-Up
- Subject Accrual

Session recordings can be found at [UW ICTR's YouTube](https://ictr.wisc.edu/) page.

**Writing Series Committee**

**Protocol Development Program**
- Leigh Ann Mrotek
- Jen Merems

**Multisite Research Network**
- Theresa Lins
- Ali Moellner

**MCRI**
- David Puthoff

[https://ictr.wisc.edu/](https://ictr.wisc.edu/)