Questions or Comments?

Type them into the questions box!

"Why am I muted?"
Don't worry. Everyone is muted except the Presenter and the Host. Thank you and enjoy the show.

Chat
Announcements and hyperlinks from our team
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Preview Content: acs.org/indnl

• ACS Innovation Hub LinkedIn Group

Connect, collaborate and stay informed about the trends leading chemical innovation.

Join: bit.ly/ACSinnovationhub
**A Career Planning Tool For Chemical Scientists**

ChemIDP is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. ChemIDP tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

https://chemidp.acs.org

**Career Consultant Directory**

- ACS Member-exclusive program that allows you to arrange a one-on-one appointment with a certified ACS Career Consultant.
- Consultants provide personalized career advice to ACS Members.
- Browse our Career Consultant roster and request your one-on-one appointment today!

www.acs.org/careerconsulting
Atlantic Basin Conference on Chemistry
Linking the World through Chemistry
13 - 16 DECEMBER 2022 | MARRAKECH, MOROCCO

HOTEL: Mövenpick Hotel Mansour Eddahbi Marrakech Convention Center: Palais des Congrès Marrakech
ABCChem.org  #ABCChem2022

ACS Career Resources

Professional Development & Education

- ACS Professional Development (Free and discounted courses)
- ACS Leadership Development (Free sessions for leadership development)
- ACS Workshops (Free and discounted workshops)

Virtual Experiences

- ACS Virtual Career Development Workshops

Career Tools

- ACS Career Center
- PhD Career Consulting
- Career Pathways

Managing Your Career

- ACS Career Development
- ACS Career Consulting
- CHEERS®

Become a Career Consultant

Volunteer consultants coach professionals at all stages of their careers with advice and tips for job searching, resumes, interview strategies, communication skills, and career management.

https://www.acs.org/content/acs/en/careers/personal-career-consulting.html

https://www.acs.org/content/acs/en/careers/developing-growing-in-your-career.html
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- Resources to help write competitive grad school applications and connect you with mentors, students, and industry partners!

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Email us at bridge@acs.org

ACS Scholar Adunoluwa Obisesan
BS, Massachusetts Institute of Technology, June 2021
(Chemical-biological Engineering, Computer Science & Molecular Biology)

“The ACS Scholars Program provided me with monetary support as well as a valuable network of peers and mentors who have transformed my life and will help me in my future endeavors. The program enabled me to achieve more than I could have ever dreamed. Thank you so much!”

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Donate today at [www.donate.acs.org/scholars](http://www.donate.acs.org/scholars)
ACS OFFICE OF DEIR
Advancing ACS’ Core Value of Diversity, Equity, Inclusion and Respect

Resources

- Inclusivity Style Guide
- ACS Publications DEIR Hub
- ACS Volunteer and ACS Meetings Code of Conduct
- C&EN Trailblazers
- NEW Download DEIR Educational Resources
- Quick Guide: Inclusion Moments
- Quick Guide: How to host inclusive in-person events

Diversity, Equity, Inclusion, and Respect

Diversity**
The representation of varied identities and differences (race, ethnicity, gender, disability, sexual orientation, gender identity, national origin, cultural identity, socioeconomic status, thinking and communication styles, etc.) collectively and as individuals. ACS seeks to proactively engage, understand, and draw on a variety of perspectives.

Equity**
Seeks to ensure fair treatment, equality of opportunity, and fairness in access to information and resources for all. We believe there’s only equality in an environment built on respect and dignity. Equity requires the identification and elimination of barriers that have prevented full participation of some groups.

Inclusion**
Desires a culture of belonging by actively inviting the contribution and participation of all people. Every person’s value adds value, and ACS strives to create balance in the face of power differences. In addition, no one person can or should be relied upon to represent an entire community.

Respect
Ensures that each person is treated with professionalism, integrity, and ethics underlying all interpersonal interactions.

https://www.acs.org/content/acs/en/about/diversity.html
ths ACS Webinar® WILL BEGIN SHORTLY...

Say hello in the questions window!
How familiar are you with the publishing process in ACS Journals?

• A) Not Familiar, ex. I have not been published before in any Journals
• B) Not Very Familiar, ex. I have been published in scientific journals, but not an ACS Journal
• C) Familiar, ex. I have been published in ACS Journals before
• D) Very Familiar, ex. I am part of the ACS Publications team

* If your answer differs greatly from the choices above tell us in the questions window!
Ten Tips for Scholarly Publishing

Anatomy of a Manuscript
ANATOMY OF A MANUSCRIPT

8 Key Components of a Research Article

1. Title
2. Abstract and TOC Graphic
3. Introduction
4. Results and Discussion
5. Conclusions
6. References
7. Supporting Graphics
8. Experimental Section

ANATOMY OF A MANUSCRIPT

8 Key Components of a Manuscript in ChemEd

1. Title
2. Abstract and TOC Graphic
3. Introduction
4. Methods Section
5. Results and Discussion
6. Conclusions
7. References
8. Supporting Graphics

Increasingly, graphics are best embedded in the text itself.
The Ten Tips

1. Create a Useful Outline

Collect data and understand advances
Ask Questions - Why? What? How?
Organize data by importance, not time
Evaluate need for and create useful figures
Share your outline with coauthors for feedback
Draft the outline as early as possible
Choose the Journal Carefully

Tips

- ACS publishes more than 60 journals
- More than 20 ACS journals publish materials science
- To choose the best journal, understand these needs for your manuscript:
  - Community fit and scope
  - Manuscript type
  - Impact and appeal to audience served
  - Open access needs
  - Related research published

Read and Follow the Guidelines

The journal and ethical guidelines were written to help YOU!

[link to guidelines]

For example, Manuscript Types may vary among journals and the guidelines are how to know which type is best for your manuscript.
Ten Tips for Scholarly Publishing

Tell a Story

1. Identify your main theme
2. Explain why the problem is important (& what related ideas are already known)
3. Provide “already known” context via prior literature
4. Conclusion should summarize your main message and main advance
5. Provide sufficient details in experimental (or methodology) for others to replicate if desired
6. Analyze the data thoroughly and objectively
7. Include the right balance (or level) of data
8. Avoid acronyms, with few exceptions

Avoid common language pitfalls

<table>
<thead>
<tr>
<th>Imprecise language</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>“It has long been known”</td>
<td>I did not look up the reference</td>
</tr>
<tr>
<td>“In my experience”</td>
<td>Once</td>
</tr>
<tr>
<td>“In many cases”</td>
<td>Twice</td>
</tr>
<tr>
<td>“In a series of cases”</td>
<td>Thrice</td>
</tr>
<tr>
<td>“It is believed that”</td>
<td>I think</td>
</tr>
<tr>
<td>“It is generally believed that”</td>
<td>A few other people think so, too</td>
</tr>
<tr>
<td>“Clearly”</td>
<td>Often, not that clear</td>
</tr>
</tbody>
</table>
TEN TIPS

5

Draw Graphics with Care

Graphics should help the reader comprehend the story you are trying to tell.

1. Be clear and precise - use readable fonts
2. Figures should contain real data that tells your story
3. Use color
4. Graphics must be original unpublished artwork
5. Include error analysis

Where can I learn more? [Link]

Don’t distort visual impact of the data with choice of axis ranges.

TEN TIPS

6

Attract Readers with the Title and TOC Graphic

Create a Strong Title

1. Use a maximum of 20 words and be grammatically sound
2. Select strong action verbs and avoid overuse of adjectives, and avoid adverbs
3. Make your words resonate with the TOC graphic and include key words for SEO
4. Avoid buzzwords, acronyms, and abbreviations
5. Avoid potential untested applications and hard-to-justify claims

See also: [Links]
Ten Tips for Scholarly Publishing

6 Attract Readers with the Title and TOC Graphic

Creating your TOC Graphic

1. How to get started
   - Write 1-2 sentence take-home message

2. Understand the basics
   - Look at examples and read guidelines
   - Simple yet informative and fits in rectangle
   - Color use is strongly encouraged, be creative

3. Quality and originality
   - Uphold the standards, be realistic, be professional
   - Use familiar software to eliminate errors
   - Use original unpublished artwork by an author

7 Avoid Plagiarism

Plagiarism and related issues
- Self-plagiarism
- Concurrent submission
- Prior publication

Where can I read more about plagiarism and related issues?
https://publicationethics.org/

Source: https://pubs.acs.org/doi/10.1021/nn3000912
**TEN TIPS**

**Revise, Edit, and Rework**

**Tips**

- A good manuscript goes through many drafts before submission.
- Revisions are an important part of the process, and give all authors the time to support and edit the manuscript prior to submission.
- "Fresh eyes" later in the revision process can often be quite helpful.

**Where can I learn more?**

https://www.youtube.com/watch?v=q3mrRH2aS98

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**TEN TIPS**

**Prepare the SI with Care**

**What goes in the SI?**

- Data that further substantiates your claims.
- Cross-reference the SI in the main text to provide an easy-to-follow manuscript.
- Do add movies and/or photos of experiments to assist readers.

**Where can I find journal guidelines for submission of SI?**

https://publish.acs.org/publish/

Journal homepages

Updated ACS Guide to Scholarly Communication Online

https://pubs.acs.org/doi/book/10.1021/acsguide

In Chemistry Education manuscripts, the SI often includes important information for how to implement the educational innovation described in the manuscript.
Write a Clear, Accurate Cover Letter

Tips

- Address the Editor-in-Chief directly by name
- Include the title of the manuscript and the name of the journal you are submitting to
- Explain why the work is appropriate for the journal’s readership
- Include your “take home message” – be concise!

Where can I learn more?
https://pubs.acs.org/doi/10.1021/acs.jproteome.6b01068

Additional Key Resources

Where can I find journal guidelines and templates for submission?
https://publish.acs.org/publish/

Journal homepages

Updated ACS Guide to Scholarly Communication Online
https://pubs.acs.org/doi/book/10.1021/acsguide

ACS Authoring Services:
https://authoringservices.acs.org/en/ or https://authoringservices.acs.org/cn/
Choose the Journal Carefully

When am I ready to write a manuscript for *J. Med. Chem.*?

**Ask yourself:**

- Does my data "tell a story," or are they merely pieces of information?
- Do the results provide novel insights and advance the field?
- Does it fit the scope of *J Med Chem*?
- If in doubt, reach out to the Editor-in-Chief directly with presubmission inquiries or any other questions or concerns

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Key manuscript components and telling a story

What should I write in my *J. Med. Chem.* manuscript?

- **Title**: As specific as possible.
- **Abstract**: Brief account of goals and major findings; often written after the draft has been completed. Use a bold TOC graphic to draw attention to your research.
- **Introduction**: Describe the topic and position your work relative to published studies.
- **Methods**: Concise and precise.
- **Results**: Describe your findings.
- **Discussion**: Put your findings again into context; draw conclusions.
- **Concluding remarks**: Another brief summary of the study and its major findings.
Myth Busting Perceived Requirements for Publishing with *J. Med. Chem.*

- **Submission Checklist no longer required** – regular cover letter sufficient.
- **Manuscripts** can be submitted using the ACS template or as a general Word document.
- Include figures/tables/schemes, etc. in the text, with their location based on text references (not at the end of the document).
- **Consider specific requirements for certain manuscript types,** such as Drug Annotations (detailed SAR description preferred) and Perspectives (not the same as reviews, provide lessons learned in addition to an overview of a given topic).


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**Reasons for manuscript rejection**
Reasons for Rejection: Overview

INAPPROPRIATE journal
- Wrong scope/audience

PREMATURE publication
- Conclusions not validated and/or not supported by the data

LACK of novelty
- Reporting routine results
- Reading like a lab report or merely tabulating data
- Duplicating earlier work

Reasons for Rejection – Manuscript Considerations

FAILURE to include experimental procedures used in the synthesis of target compounds in the Experimental section of the manuscript
- Use Supporting Information for routine experimental detail

FAILURE to properly cite literature precedent

INADEQUATE characterization of compounds or materials

UNCLEAR word choice or phrasing

LACK of focus
- Trying to cover too much material
- Presentation of data scattered

MISSING important control experiments

FAILURE to address alternative explanations in cases where conclusion is not supported by data presented in the manuscript

MAKING (unintended) unjustified strong statements

**MOLECULAR** modifications of reported chemical series not leading to a significantly improved understanding of structure-activity relationships (SAR) OR not utilizing novel chemical or biological approaches.
- The bar is higher for a known chemical series.

**MEDICINAL** chemistry rationale behind the synthesis of analogues not developed.

**NEW** moderately active inhibitors of a well-established drug target.

**LIMITED SAR** and inclusion of compounds already reported.

**MISSING** purity statement “All compounds are >95% pure by HPLC.” HPLC traces should be included for representative compounds that have in vitro data and for all compounds with in vivo data described in the manuscript. Reasons for any exceptions/exclusions should be explained.
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