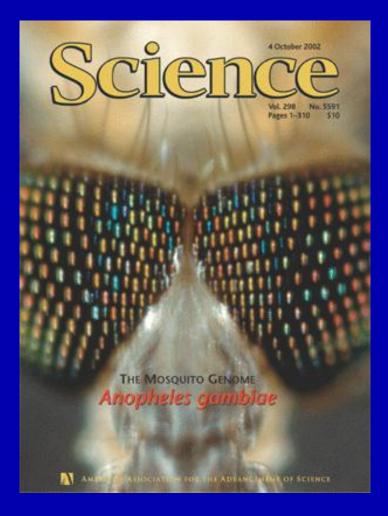


A Guide to Writing the Model Article

Stella Hurtley Senior Editor, Science





How to get around journal editors!



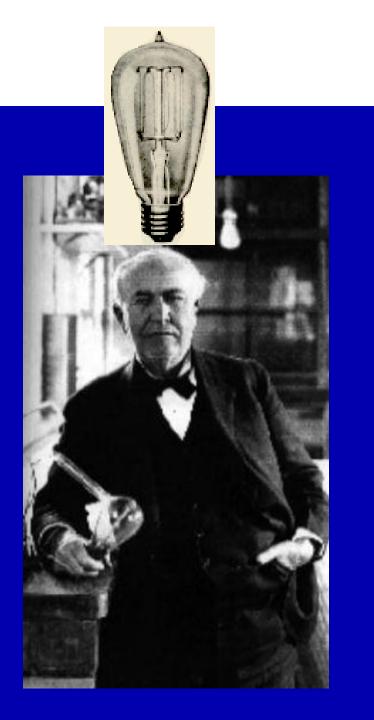


Established to represent all disciplines of science.

AAAS supports scientific exchange and discussion of science and society issues.

Thomas Edison

1880



Science

AAAS



Evolution of the journal





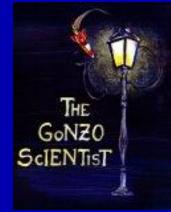


Information for

The changing landscape of scientific publication

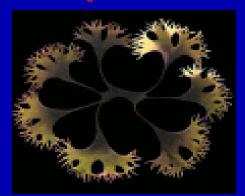


- Peer reviewed research
- Award winning news
 - ScienceNOW (daily)
- Science products
 - Science Signaling
 - Science Translational Medicine
 - Regional Gateways
 - Multimedia
 - Interactive features
 - Webinars
 - Slide shows
 - Videos
 - Podcasts



Science 1

Special Feature: Science and Engineering Visualization Challenge 2007



The Macaque Genome

Richard Gibbs and other scientists discuss the significance of the rhesus macaque, and its genome, for biomedicine and evolutionary studies in a special interactive online version of the pull-out poster published with the 13th April Special Issue









Competitive





N.L.

Rice genomics

for the part of the first of

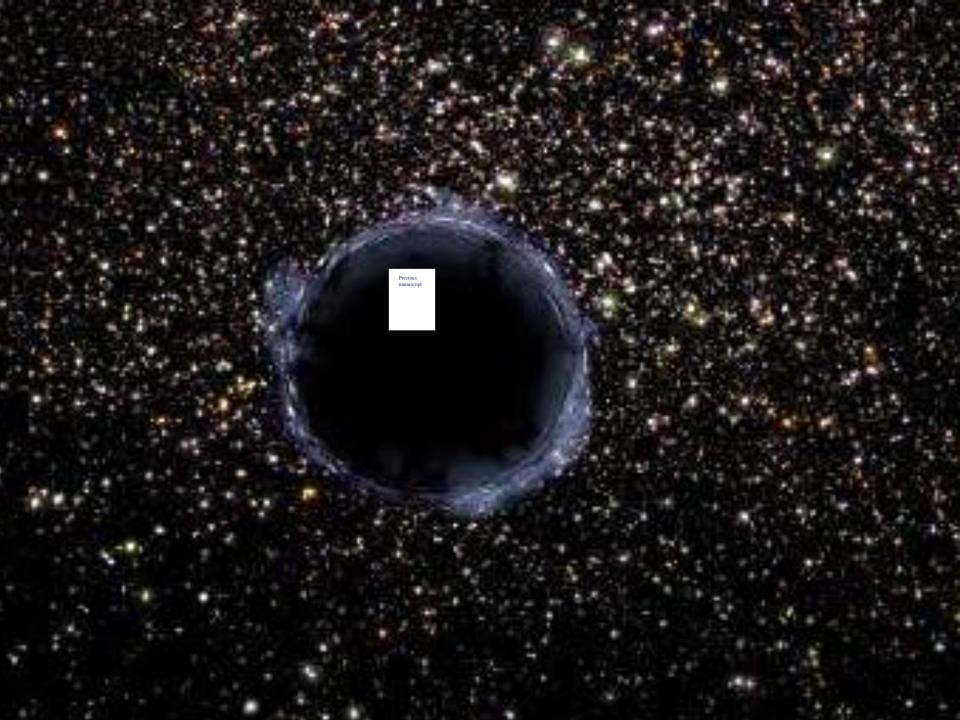


The review process?

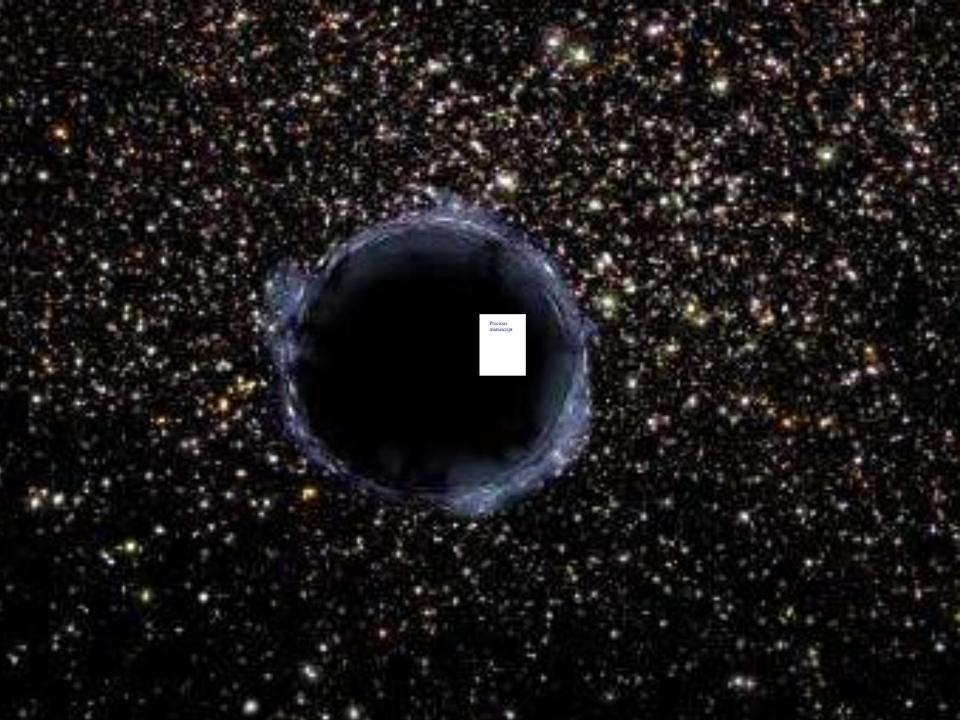


Precious manuscript Precious manuscript

έ.







Precious manuscript







What's going on inside?





- 28 Editors, Deputy, Senior, Associate
- PhDs and MDs, with post-doc research experience
- Professional experience in research
- Cover all of physical and biological science
- Backgrounds include physics, chemistry, geology, astronomy, ecology, evolution, molecular biology, plant science, neuroscience, signal transduction, cell biology, immunology, etc.
- We learned 'editing' on the job
- Main offices in Washington DC, and Cambridge UK







Stages of review How the process works The editor's role Criteria for selecting papers



<u>The Author, the Editor and the Referee</u> (The Good, The Bad and the Ugly)

Preparing for submission

After submission.

Role of the editor: friend or foe?!

Revision and publication

Pleading your case

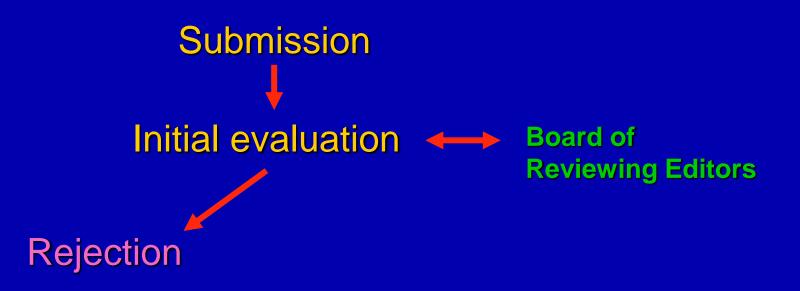


Submission

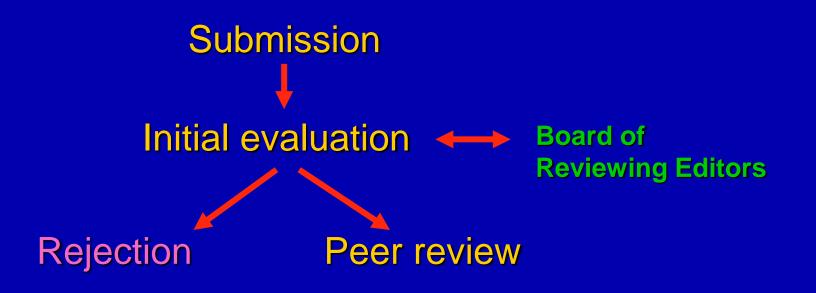


Submission Initial evaluation + Board of Reviewing Editors

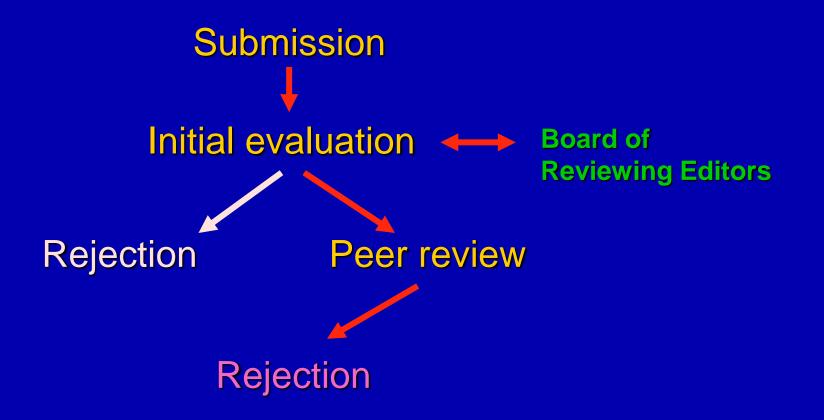




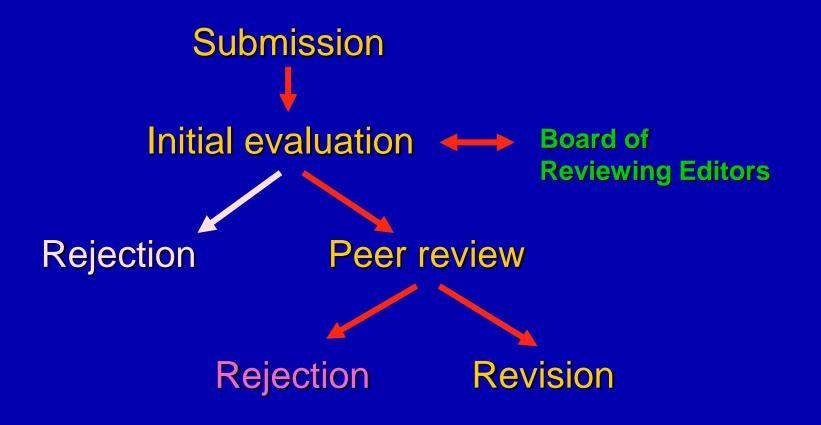




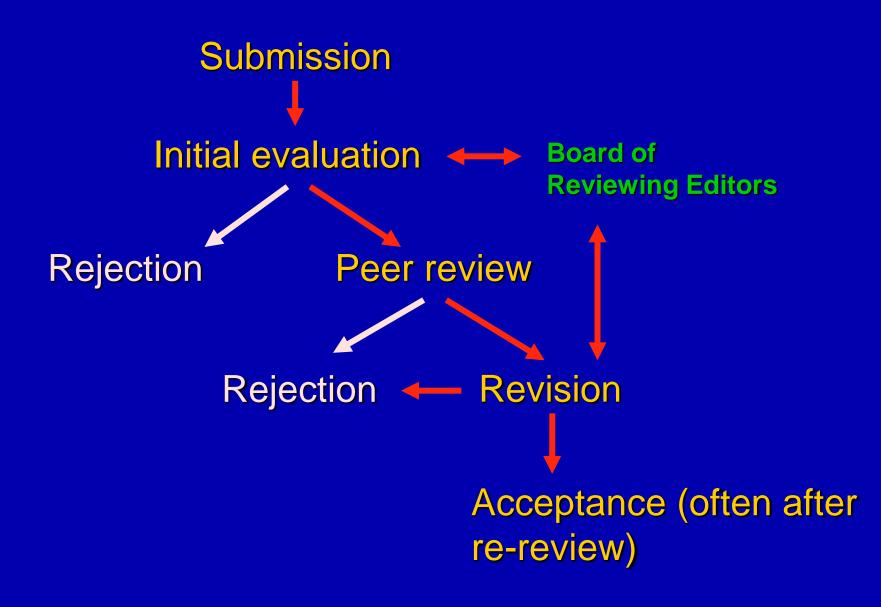












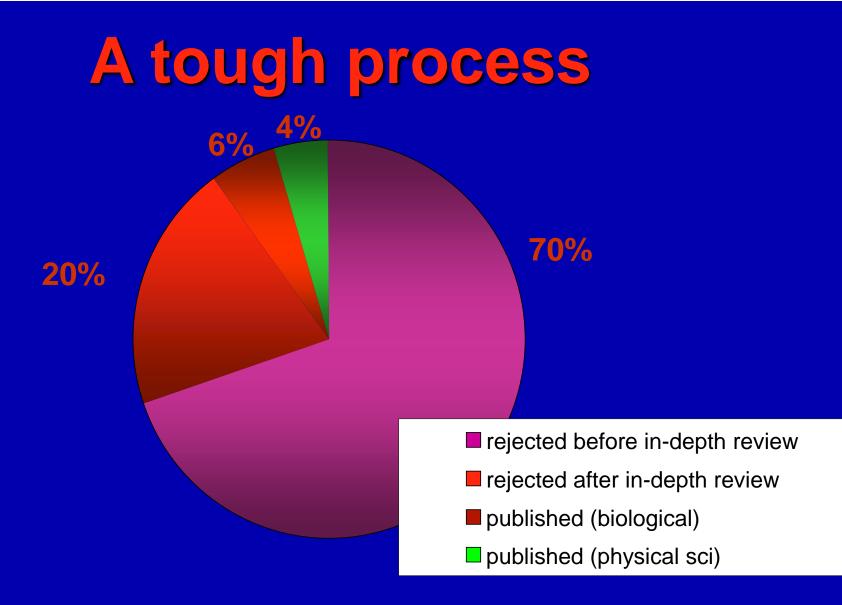


What Doesn't Matter

- The eminence of the authors
- The prestige of the institution
- Whether you contacted Science before submitting
- Whether you are from the USA
- Whether you are a member of AAAS
- The field of inquiry









Peer-review





Discussion and careful consideration



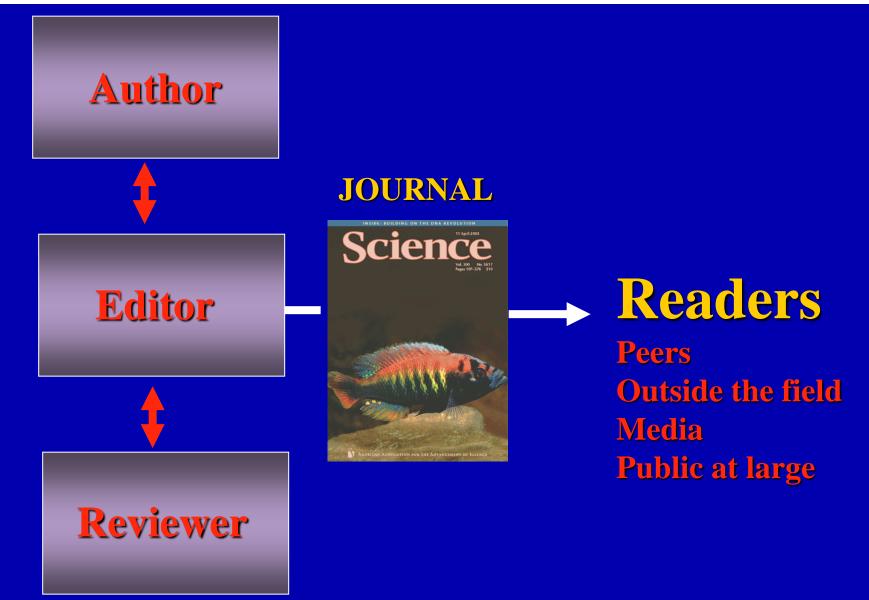




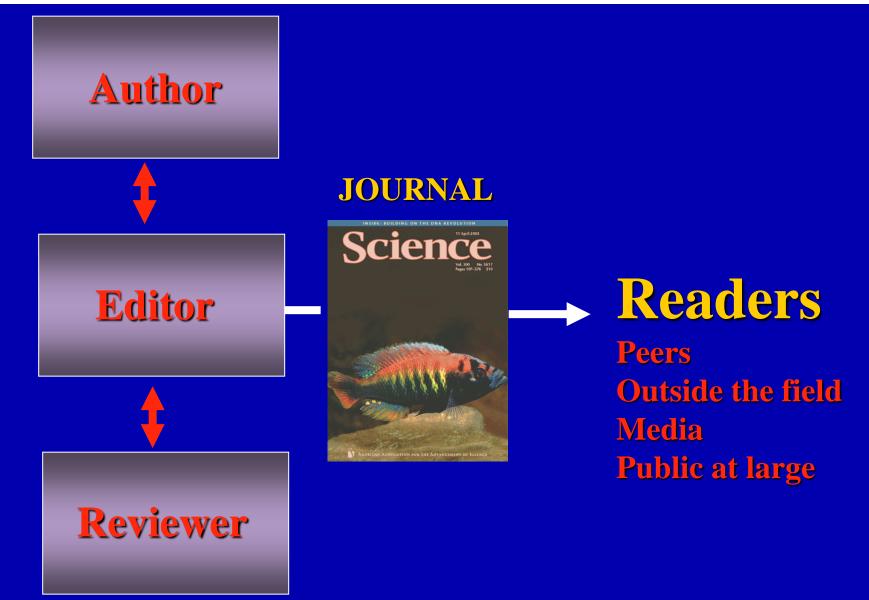
M AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Submitting a paper.













At what point is your work ready? Where to submit?



Should your paper go to SCIENCE?

Science

AAAS

Is it your best work?

Will it have a big impact?

Will it interest scientists in other fields?

Does it overturn conventional wisdom?





More than incremental?

- -Answer to a long standing question.
- -Different way of thinking.
- -Proof of principle for important hypothesis
- -Important application.





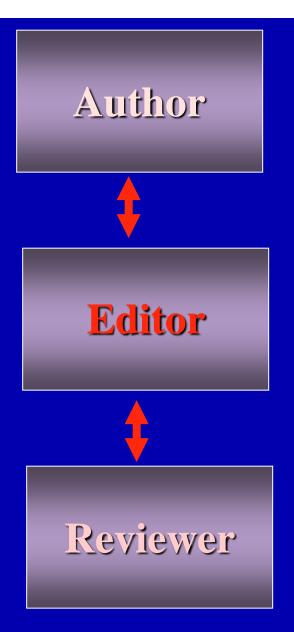
The work is sufficiently interesting !





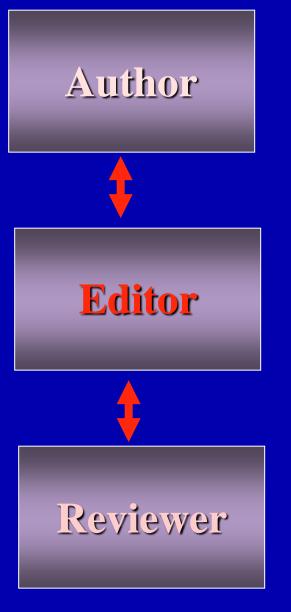
Plan: Decide when and how to write up. **Who** should write-up the work?!





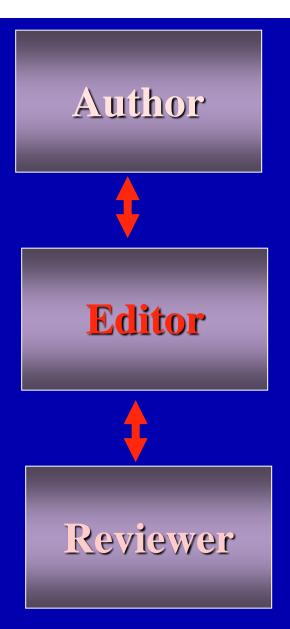
Write with the editor in mind.....





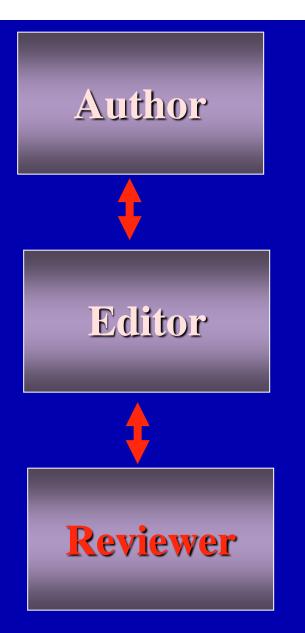
Is the importance of this work apparent? Have I got the message across clearly? Is it the right length? Are hype and jargon at a minimum? Is it comprehensible to a general audience? Format.





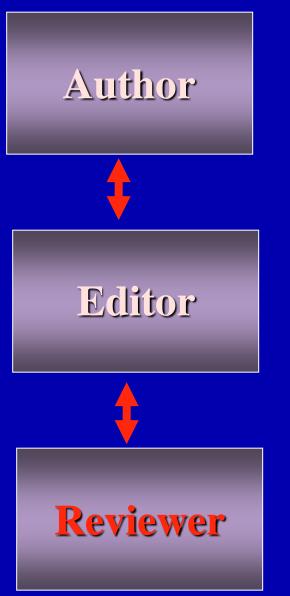
Good cover letter.





Write with the reviewer in mind..



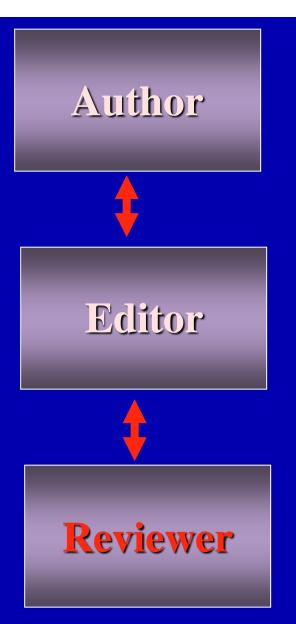


Is there enough detail?

Is there too much detail?!

Are interpretations of the data appropriate?





Is the data clear? Quality of figures good?





What helps.....

Assess both research and presentation

Run your own review process first

Ask for feedback- specialist / non specialist





Internal Review

Is the main message of the paper clear? Is the importance of the work made clear? Is the paper the right length?

Are the figures clear?





What doesn't help

•The LPU

Excessive or unfounded speculation

Repeat examples of a known phenomenon

•Poor presentation, language, grammar.





Lacks novelty

Too specialized

Insufficient advance over previously published work





Technical: Unconvincing data

Main conclusions not supported by the experiments





Observations without interpretations





Interpretations without observations!!



Reading into Rejection.

Extracting a useful message from the rejection.

Reviewer comments: improving the manuscript for another journal

Criticism: constructive rather than crushing

Argue your case, or submit elsewhere?



Reviewing papers

See review as a means of providing constructive criticism

Reviewers help guide the editorial decision



Reviewing papers

>Give brief synopsis of the paper one paragraph

>Analyze quality of experiments explain reasons, support arguments

>Analyze validity of interpretation explain reasons, support arguments



Reviewing papers

>Suggest further experimental directions

>Discuss what impact the paper might have in its own specialty in a broader context

>Note any similar publications



Submitting a Manuscript to Science

- Submit online at www.submit2science.org
- Follow information to contributors
 - Preparing your manuscript:
 - Some flexibility is allowed in length of initial submission
 - Write clearly, proofread and if not a native English speaker ask one to read and edit your manuscript
- Types of Submissions:
 - Research Article ~4500 words, 6 figures and tables
 - Report ~2500 words, 4 figures and tables
 - Brevia ~800 words, 1 figure/table + 800 word SOM with 1 figure or table
 - Policy and Education forums (1000-2000 words).
 - Editorials, Perspectives, Book reviews and Reviews (typically invited)







Science Careers

From the journal Science



http://sciencecareers.org Resources for the next generation of scientists

- Jobs
- Career advice
- Funding database
- Discussion forum
- Job market news
- Alternative careers

• New articles each week

AAAS

- Career advice: networking, resumes, CVs, interviewing
- Balancing work and life
- Browse by date, career stage, discipline





OS & AAA AS

Questions and Answers.

We have in a demanding world, a world of questions. Science in being asked to help deliver answers more quickly than ever before. Resping up-to-date with the latest scient file sever and developments is ever more ortikal at this time in order to succeed. The question is here.

Science magazine, theweekly journal of AAAS, gives you an invide track to severil of az iset list information, undersigneding, and knowledge. Deep week, our members make assounding discoveries inside the pages of Soleron and a wikept up-to-theminute with privileged access to the latest via Soleron Online. By techning a member of AAAS, you too can gain access to this world of scientific imagine.

AAAS has been helping to answer the questions of science and scientists since sitult, and today is the world's largest multiclaupling to respect to membership association for science related professionals. We wook hand at advancing science and serving the needs of our members and society - by supporting improved science education, sound science palloy, and international cooperation.

MAAAS

So, fithe question is here do I become a member, here's the answer. Simply go to surveinite of reveauus.org/ is is, or in the U.S. call 202 (36 647) and ank for orde Tyl in internationally call +44 (31 127) (36 515. Andy off diazover the prevent an all on the inside. Join AAAS today.



www.saas.agfjoin