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Instructions for Authors of Mini-Reviews

Mini-Reviews should provide new insights as well as summarize the information currently available. The best reviews reflect the unique viewpoint of the author and show how new findings alter current thinking about major issues in a particular field. We find that readers often prefer Mini-Reviews of 3000 to 5000 words. Although space for electronic files is not an issue, we want the paper to be well-focused and as concise as possible. Indeed, the main goal of *Science Signaling* is to provide users with efficient access to information. Mini-reviews will be evaluated by peer review for scholarship, accuracy, clarity, and effectiveness of presentation.

In terms of organization of the review, the main text may be organized into sections. The main section headings should be indicated in bold and should briefly indicate the main ideas. You may also one more layer of subheadings, which should be indicated in italics. We would also like to accompany the review with a very short "Gloss" – essentially a textbook level, one-paragraph summary of the topic covered in the review. The Gloss is intended to provide an overview for students or scientists unfamiliar with the topic for which the full article might be too comprehensive and to allow indexing of the review in a biological science portal (www.biosciednet.org). The review should also have an abstract that is more focused and intended for scientists in the field, which will be indexed in PubMed. The text file of the article should include the Abstract, the Gloss, the full text, the figure legends, table legends, and references. Figures and tables may be submitted as separate files. The text, figures, and tables should be submitted through the electronic submission site.

Your review can be linked to other resources on the web. Thus, for example, figures can include videos playable by web browsers and references can include links to databases on the web. Please note that references should be complete and should include the title of the cited paper. The titles will appear as you provide them.

There are just a few points that will make writing for *Science Signaling* different from that for a print-only journal: The most important is that you are encouraged to keep the article up to date with periodic revisions. We expect that this feature will make reviews at *Science Signaling* particularly timely and exciting and may make them the definitive source for information on a particular topic. Updates can be additions or changes to multiple sections, substantial modification of a single section, or addition one or more new sections. The updated review will be published as a new article with its own citation and will be accompanied by an "Update" document that briefly describes it is different from the previous version. The Update will be useful to readers familiar with the original review and help them quickly locate and assimilate the new information. Each version of the review will be linked to previous versions on the *Science Signaling* site. We expect that, in a very active field, an author may wish to use this feature annually or semi-annually to maintain the review.

Author Checklist for *Science Signaling* Reviews

Have you included a Gloss?	
Have you included an Abstract?	
Are all authors listed correctly along with their affiliations and the corresponding author indicated?	
Have you included at least one figure or table?	
Have any of the figures been previously published?	
Have you included legends for all figures and tables?	
Does your article have no more than two levels of headings and subheadings?	
Are the references complete? Each citation should include full article title, journal title, journal volume, year of publication, and first and last page. Please include all authors (no *et al*.s).	

General Instructions for the Preparation and Submission of Text and Figures

Please submit your text and figures through the *Science* Journals Submission and Information Portal at https://cts.sciencemag.org. Note that our submission site will automatically rename your files upon upload, so it is not necessary to follow a particular naming convention for your files.

Text

Text files must be in Microsoft Word .docx format. Include text, as well as any figure captions, references and all tables, in this single Microsoft Word .docx file.

Figures

Figure files should be compatible with Macintosh computer Adobe Illustrator (Version 3.0 to 9.0) and Adobe Photoshop (version 2.0 to 6.0). Figures prepared in PowerPoint will be redrawn by our art department to achieve the necessary resolution. Our submission system can handle files up to 25 MB. We can accept figures in the following formats (in descending order of preference).

- Illustrator EPS (Encapsulated Postscript) or AI (Adobe Illustrator)
- Photoshop PSD (Photoshop - with active text layers, do not flatten and do not rasterize text layers) PDF, TIF, PicT, JPG, GIF
- Files prepared in Corel Draw or Macromedia Freehand, which must be saved as EPS files
- PowerPoint PPT files

Supplementary Materials

Text and figures. Although Supplementary Materials are discouraged for Perspectives and Commentary, if necessary, include them (materials and methods, tables and figures plus captions) at the end of the main manuscript file, in a separate section titled Supplementary Materials.

Video and audio files. Acceptable formats for videos or animations are Quicktime, MPEG, animated GIF and Flash. Keep videos short and the display window small to minimize the file size of the video. Supply caption information with the videos. Edit longer sequences into several small pieces with captions specific to each video sequence. Acceptable formats for audio files are .wav, .aiff and .au. Supply caption information with the audio files. Upload these file types as Auxiliary Supplementary Materials on our submission site. Our system can handle files up to 25 MB.

Other files types. All other file types can be uploaded as Auxiliary Supplementary Materials on our submission site. Our system can handle files up to 25 MB.

If your files are extremely large or if you have other questions, please email the *Science Signaling* editors at sciencesignalingeditors@aaas.org.

Citation style

Symbols, abbreviations, and acronyms should be defined the first time they are used.

Units of measure should be given in SI units. If measurements were made in English units, give metric equivalents.

References and notes are numbered in the order in which they are cited, first through the text, then through the table and figure legends. List a reference only one time. Any references to in-press manuscripts or personal communications should be given a number in the text and placed, in correct sequence, in the references and notes. Such references should not, however, be used to support claims or conclusions. We do not allow references to unpublished data in support of claims or conclusions; necessary data should be included in the manuscript, its Supporting Online Material, or an approved archival database. The abbreviations for journal names are taken from the *Bibliographic Guide for Editors and Authors* (*BGEA*) or *Serial Sources for the BIOSIS Data Base* (*BIOSIS*), a more recent publication. When in doubt, provide the journal's complete name. Spell out cities that are listed after a journal name: *Acta Zool. (Stockholm).* Do not use op. cit., ibid., 3-m dashes, en dashes, or et al. (in place of the complete list of authors' names). For author names with Jr. or 2nd, etc. see example number 4 in the *Journals* section. Publisher's names are given in shortened form. "Press" and the like are usually dropped, except Academic Press ["Academic" is an adjective], University Park Press, CRC Press, MIT Press, and Cambridge Univ. Press [for university presses, to distinguish them from the university itself]. Only one publisher's location is needed. A few world-renowned cities (for example, Amsterdam, London, Philadelphia, Chicago, New York, Baltimore) can be listed without state or country; less well-known cities and those with names that could be confused take state abbreviations (Cambridge alone for the city in the U.K., but Cambridge, MA). Inclusive pages numbers or chapter number must be given when specific articles are referred to within an edited volume.

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Citations

Please use full citations in the following format:

Journals

1. E. J. Neer, T. Kozasa, Sites for Gα binding on the G protein β subunit overlap with sites for regulation of phospholipase Cβ and adenylyl cyclase. *J. Biol. Chem.* **273**, 16265-16272 (1998).
2. D. J. Mangelsdorf, C. Thummel, M. Beato, P. Herrlich, G. Schütz, K. Umesono, B. Blumberg, P. Kastner, M. Mark, P. Chambon, R. M. Evans, The nuclear receptor superfamily: The second decade. *Cell* **83**, 835-839 (1995).
3. J. J. Tesmer, R. K. Sunahara, A. G. Gilman, S. R. Sprang, Crystal structure of the catalytic domains of adenylyl cyclase in a complex with Gs·GTP-γ-S. *Science* **278**, 1907-1916 (1997).
4. J. D. Brown, M. R. DiChiara, K. R. Anderson, M. A. Gimbrone, Jr., J. N. Topper, MEKK-1, a component of the stress (stress-activated protein kinase/c-Jun N-terminal kinase) pathway, can selectively activate Smad2-mediated transcriptional activation in endothelial cells. *J. Biol. Chem.* **274**, 8797-8805 (1999).
5. J. Burton, C. K. Goldman, P. Rao, M. Moos, T. A. Waldmann, Association of intercellular adhesion molecule 1 with the multichain high-affinity interleukin 2 receptor. *Proc. Natl. Acad. Sci. U.S.A.* **87**, 7329-7333 (1990).
6. A. Miyawaki, R. Tsien, Monitoring protein conformations and interactions by fluorescence resonance energy transfer between mutants of green fluorescent protein. *Methods Enzymol.*, in press.
7. F. Watson, R. S. Kiernan, D. G. Deavall, A. Varro, R. Dimaline, Transcriptional activation of the rat vesicular monoamine transporter 2 promoter in gastric epithelial cells: Regulation by gastrin. *J. Biol. Chem.* Papers in Press, published 2000 as 10.1074/jbc.M006697200.
8. K. L. Clark, P. B. Larsen, X. Wang, C. Chang, Association of the *Arabidopsis* CTR1 Raf-like kinase with the ETR1 and ERS ethylene receptors. *Proc. Natl. Acad. Sci. U.S.A.* **95**, 5401-5406 (1998) [published erratum appears in *Proc. Natl. Acad. Sci. U.S.A.* **95**, 9060 (1998)]. [style for published erratum]
9. L. C. Cantley, PI3K pathway. *Sci. Signal.* (Connections Map in the Database of Cell Signaling, as seen February 2001), http://www.stke.org/cgi/cm/CMP_6557. [style for citing a pathway in the Database of Cell Signaling at *Science Signaling*]
10. H. R. de Jonge, B. Hogema, B. C. Tilly, Protein N-myristoylation: Critical role in apoptosis and salt tolerance. *Sci. STKE* **2000**, pe1 (2000). [style for citing a *Science's STKE* paper; note: volume and year are the same]
11. E. Canalis, Notch signaling in osteoblasts. *Sci. Signal.* **1**, pe17 (2008). [style for citing a *Science Signaling* article published following title change in January 2008]

– When published in *Science* Express but not yet in print:

1. W. Jones, B. Smith, Location and function of DNA binding proteins. *Science* 20 December 2000 (10.4444/science.1054678).

– When published in *Science* Express and in print:

1. W. Jones, B. Smith, Location and function of DNA binding proteins. *Science* **252**, 1056 (2001); published online 20 December 2000 (10.4444/science.1054678).

Technical reports

1. D. E. Shaw, *Technical Report CUCS-29-82* (Columbia University, New York, 1982).
2. F. Press, *A Report on the Computational Needs for Physics* (National Science Foundation, Washington, DC, 1981). [unpublished or access by title]
3. *Assessment of the Carcinogenicity and Mutagenicity of Chemicals* (WHO Technical Report Series No. 556, World Health Organization, Geneva, Switzerland, 1974).

Proceedings

1. *Title of Symposium Published as a Book*, sponsoring organization, city and state of meeting, inclusive dates and year (publisher, publisher's city and state, year).

Paper presented at a meeting (not published)

1. M. Konishi, paper presented at the 14th Annual Meeting of the Society for Neuroscience, Anaheim, CA, 10 to 14 October 1984. [sponsoring organization should be mentioned if it is not part of the meeting name]

Theses and unpublished material

1. B. Smith, thesis, Georgetown University, Washington, DC (1973).
2. J. A. Norton, unpublished material.

Books

1. A. M. Lister, *Fundamentals of Operating Systems* (Springer-Verlag, New York, ed. 3, 1984). [third edition]
2. J. B. Carroll, Ed., *Language, Thought and Reality, Selected Writings of Benjamin Lee Whorf* (MIT Press, Cambridge, MA, 1956).
3. R. Davis, J. King, in *Machine Intelligence*, E. Acock and R. Michie, Eds. (Wiley, New York, 1976), vol. 8, chap. 3.
4. D. Curtis, in *Clinical Neurology of Development*, B. Walters, Ed. (Oxford Univ. Press, New York, 1983), pp. 60-73.
5. *Principles and Procedures for Evaluating the Toxicity of Household Substances* (National Academy of Sciences, Washington, DC, 1977). [organization as author and publisher]