

## Instructions for Authors of Perspectives

Perspectives at *Science Signaling* are short, lively overviews that feature the author's opinion regarding current research, or other topics of scientific interest. Perspectives are intended for a broad audience of scientists. Your task is to tell other readers, including those outside the Signal Transduction field, about exciting developments in your area of expertise. Perspectives are more limited in scope than Reviews and may focus on one or more recently published papers. Other appropriate topics include discussions of methods, books, policy matters, meeting highlights, or any subject where an author's unique perspective is of unusual interest.

*Perspectives must have an Abstract. This is important because the Abstract will be visible in PubMed and thus will lead many readers to your article.*

**Format:** Perspectives should be short and concise. An upper limit of 1000 to 1500 words is ordinarily applied and we recommend citing fewer than 35 references. Because we want to make this page visually engaging as well as informative, we would like each Perspective to include one figure.

**Writing your Perspective:** The ideal Perspective begins with an introductory paragraph that immediately presents the issues in a way that captures the reader's interest. If the Perspective discusses a particular paper, the paper should be mentioned in this first paragraph. Your introduction should be general enough to orient the reader not familiar with the specifics of your field. Here, and throughout the article, you should avoid the jargon and special terms of your field or system. If the language of specialists is necessary, define terms for the general reader.

The body of the text should, in the limited space available, develop your discussion in a lively manner. By "lively" we don't mean hype and oversimplification. Rather, the editors seek clear, declarative writing that avoids the passive tense, tangled constructions, and needless detail.

The final paragraph should draw the piece to a concise conclusion, without simply restating the text. It should be a conclusion and not a summary. Tell the reader about future prospects and implications. What are the unanswered questions? Where is the field going?

References, cited by consecutive numbers in the text, should be given in a full format. Avoid lengthy notes, details, or asides that interrupt the flow of the text.

**The Figure:** The figure should illustrate the essential message of the Perspective. It can be a graph, chart, table, or photograph. The point is to catch the eye while informing the reader. You can submit finished artwork, a sketch, or even a rough written idea for the figure. With the help of our art department, we will refine or modify the figure as needed. See accompanying instructions for submission of electronic art. See the next page with instructions for electronic transmission of manuscripts for details on preferred file types and file naming.

**The Editor's Role:** We expect that authors will do their best to meet our criteria for a good Perspective, but you should be prepared for extensive editing, perhaps even rewriting, if the editors find it necessary. The editors will show you see the changes and you will be asked to check the galleys before publication.

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### Author Checklist for *Science Signaling Perspectives*

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 one level of headings?	
Does your article cite 35 or fewer references?	
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 <i>et al.s</i> ).	

### General Instructions for the Electronic Submission of Text and Figures

Please submit the text and figures through the *Science Signaling* Electronic Manuscript Submission Website (<http://www.submit2scisignal.org>). Simply choose the option “I want to submit a new manuscript to *Science Signaling*”.

If you have files that cannot be submitted through the electronic submission site, please email the *Science Signaling* editors at [sciencesignalingeditors@aaas.org](mailto:sciencesignalingeditors@aaas.org) after you have submitted the main part of the manuscript electronically. Please include the Web Submission number that you will receive from the submission site in your email.

Text files should be compatible with Microsoft Word in .doc or .rtf format.

Figure files should be compatible with Macintosh computers Adobe Illustrator (version 3.0 to 9.0) and Adobe Photoshop (version 2.0 to 6.0). For details about preferred file types, see below in Figure File Formats. Figures must be at least 300 dpi. Figures prepared in PowerPoint will be redrawn by the *Science Signaling* art department to achieve the necessary resolution.

Movies and animations in Macromedia Flash, Quicktime, or animated GIF format are acceptable.

### Detailed Instructions for Preparing Your Electronic Files

The maximum total file size for each manuscript submission is 6 MB (including figures and

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supporting online material) when using the electronic submission form. If larger figure files or supporting online material files are necessary, please contact the editors at [sciencesignalingeditors@aaas.org](mailto:sciencesignalingeditors@aaas.org).

Format all pages to 8.5" × 11" (standard U.S. letter-sized paper) with at least 1.25-inch or 3-cm margins. This can be done using the "Page Setup" command in most word processors and graphics programs. Please reformat pages from A4 to this size with these margins. PostScript files should be formatted for standard U.S. letter-sized paper. This will ensure that if we need to print a hard copy of your paper, it is formatted correctly.

## Text

- Include text, references, figure captions, and all tables as part of a single text file.
- For best conversion, we recommend use of Times and Symbol fonts only.

## Graphic files and figures

Figure files should be compatible with Macintosh computers Adobe Illustrator (version 3.0 to 9.0) and Adobe Photoshop (version 2.0 to 6.0). We can accept figures in the following formats (in descending order of preference):

- Illustrator EPS (Encapsulated Post Script) or AI (Adobe Illustrator),
- Photoshop PSD (Photoshop - with active text layers, do not flatten, do not rasterize text layers),
- PDF, TIF, PICT, JPG, GIF.
- Submit files prepared in Corel Draw or Macromedia Freehand saved as EPS's.
- Submit files prepared in PowerPoint as PPT files

## Supporting Online Material

Please include supporting online text, tables, figures, and references at the end of the main manuscript file, in a separate section titled "Supporting Online Material," when it can be easily done and the total file size does not exceed 6 MB. Alternatively, Supporting Online Material can be included as a separate file that can be uploaded as the final figure file within the 6 MB upload limit. Only the file types listed above that are allowable for figures and text can be uploaded (.pdf, .ps, .prn, .doc, .wpd).

Please contact the editors at [sciencesignalingeditors@aaas.org](mailto:sciencesignalingeditors@aaas.org) regarding submission of supporting online material that exceeds the 6 MB limit or that involves file formats other than those we allow for WWW submission (such as video or audio files). For reference, please include the confirmation number you received during the upload of your paper on the correspondence regarding files that exceed the limit. Note that we cannot review your paper until we have received the supporting material.

Acceptable formats for videos are Quicktime, MPEG, 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. Please note that audio and video files cannot be submitted through the online submission system. Please contact the editors at [sciencesignalingeditors@aaas.org](mailto:sciencesignalingeditors@aaas.org) regarding submission of such file types.

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## How to Save Files in Acceptable Formats

We now convert most submissions including hard copies to PDF files for initial evaluation and review (and use hard copies where necessary). To ensure accurate conversion of manuscripts, we are able to accept only the following formats:

- .pdf (Adobe Portable Document Format)
- .ps (PostScript)
- .eps (Encapsulated PostScript)
- .prn (Printer file for a PostScript printer)
- .doc (Microsoft Word, version 6.0 and higher) – please note that we cannot accept files in Word 2007 (.docx) format.
- .wpd (WordPerfect, version 7.0 and higher)

Most applications can save files into one of these formats. Information about how to save in the acceptable formats can be found on the instructions for authors of *Science* manuscripts ([http://www.sciencemag.org/about/authors/prep/prep\\_init.dtl#formats](http://www.sciencemag.org/about/authors/prep/prep_init.dtl#formats)) and includes information about properly saving Word 2007 files and TeX and LaTeX files. Please send only one manuscript text file; figures should be either included in the text file or uploaded separately.

## Naming Files

Our electronic submission form will only accept files with the correct extension designating the file type.

Name all files starting with the last name of the first author. Follow this by an indication of whether this is the text or the figure name. The file name ends with the extension.

Examples of acceptable file names are smithtext.doc smithtextfigs.prn smithfig1.eps smithtextfigs.ps smithms.ps smithsupp.pdf

Unacceptable file names are: smithfig1C.ps (each figure should be complete, not broken into parts) smithtext (all files should end in a file extension)

## 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*

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## Citations

Please use full citations in the following format:

### Journals

1. E. J. Neer, T. Kozasa, Sites for  $G\alpha$  binding on the G protein  $\beta$  subunit overlap with sites for regulation of phospholipase  $C\beta$  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  $G_s$ -GTP- $\gamma$ -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]

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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](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]

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