

Copyright Assignment

The American Association for the Advancement of Science (AAAS) requires authors of works contributed to *Science* to transfer copyright in these works to the AAAS. If the contribution to *Science* described below (the "Work") is a joint work, AAAS requires each joint author to effect a transfer of his or her interest in the Work to AAAS directly or by his or her agent. **If the copyright is owned by the author's employer, the employer or an authorized representative must also sign this form.** This transfer agreement must be completed, signed and returned to AAAS before the manuscript can be accepted for publication. In the event that AAAS decides not to publish the Work in *Science*, this transfer shall be null and void.

In consideration of publication in *Science* of the Work currently titled: _____
_____ authored by: _____ [hereafter "author(s)"], all right, title, and interest whatsoever in and to the copyright, including any and all rights incidental thereto, is hereby transferred, conveyed, and assigned exclusively to the AAAS (for U.S. Government employees, to the extent transferable). All proprietary rights other than copyright, such as patent rights, are retained by the author(s).

After publication of the Work in *Science*, the AAAS authorizes the author to do the following without further permission but subject to the requirement that credit be given to the Work's first publication in the appropriate issue of *Science*: 1) Reprint the work in print collections of the author's own writings; 2) Present the Work orally; 3) Reproduce the Work for use in courses the author is teaching (If the author is employed by an academic institution, that institution may also reproduce the Work for course teaching); 4) Distribute photocopies of the Work to colleagues for non-commercial purposes only (providing that recipients are informed that they may not further distribute or copy the Work); 5) Post a copy of the Work on the author's personal website, provided a hyperlink to the Work on the *Science* web site is included; 6) Reuse figures and tables created by the author in future works the author writes; 7) If the Work is prepared as a work made for hire, the author's employer may make photocopies for internal use only.

Additionally, AAAS authorizes the author to post the Work on preprint servers according to the following conditions: 1) Author is authorized to post the Work only on preprint servers that are both publicly funded and non-profit; 2) The Work may be posted at the time of its publication in *Science*, but not sooner; 3) Only the ACCEPTED version of the Work may be posted; and 4) Credit must be given to the appearance of the Work in the appropriate issue of *Science* (credit line must also indicate the URL where the article appears on the *Science* website).

Written approval must be obtained in advance from the AAAS for any uses not expressly permitted above.

The author hereby warrants and represents that this Work is original, has not been published elsewhere, and does not infringe upon any copyright, proprietary, or personal right of any third party. To the extent that any third party holds rights in any of the material submitted by author, author represents and warrants that it has secured permission from such other parties for the uses made of the material and that copies of such permissions are enclosed.

Please confirm your acceptance of the terms of this assignment by signing below and returning this agreement duly signed by each author or by one author acting as the duly authorized agent of the co-authors (having been appointed either orally or in writing by each of the authors of the paper).

Print Name

Signature

Date

For Authors Employed by the United States Government [This section to be signed only if ALL authors are U.S. Government employees]: I attest that the above article was written as part of the official duties of the authors as employees of the U.S. Government and that a transfer of United States copyright cannot be made.

Print Name

Signature

Date

For works created under U.S. Government Contract: Please sign the top portion of this agreement. The AAAS recognizes the U.S. Government's prior, non-exclusive rights to use the Work for non-commercial, governmental purposes.

Works subject to Crown Copyright: If ALL authors are employees of the Australian, Canadian, and/or U.K Governments, please contact AAAS for an alternate copyright form.

Headquarters

1200 New York Avenue, NW Washington, DC 20005 USA • Telephone: (+1) 202-326-6501 • Fax (+1) 202-289-7562

Europe Office

Bateman House, 82-88 Hills road, Cambridge CB2 1LQ, UK • Telephone: (+44) 1223-326500 • Fax: (+44) 1223 326501

Published by the American Association for the Advancement of Science