nature

Dear Author,

Your paper may be eligible for our advance online publication (AOP) programme. In this programme, your paper will be published online on *Nature*'s website at www.nature.com/nature as soon it is typeset and your proof corrections returned. It will be published in print as soon afterwards as space is available. The two versions of the paper are identical.

Our offer of this service is conditional on your agreement to the following:

- Your text, figures and any supplementary information are all included when you send us the final version of your paper for formal acceptance, and are all in *Nature*-preferred format (within length and below maximum sizes) as specified in our format instructions at http://www.nature.com/nature/authors.
- The corresponding (or otherwise designated) author undertakes to read and return the proofs within 48 hours of their receipt.
- The corresponding author signs and returns the "author licence" form with the returned proof, not later.
- No changes can be made to the paper once the online version is published.

Please sign and return this letter, preferably scanned and uploaded with the final version of your manuscript, or fax letter to +44 207 843 4596 if this is not possible. Please specify below the author responsible for returning proofs if different from the corresponding author.

I agree to the above terms and conditions for AOP publication of my paper in Nature:

// lerne

Name:

Manuscript number:

2010-06-07037B

Name and contact details (phone, fax and email) of author responsible for returning proofs if not the corresponding author:

LAURA BEVILACQUA

phone: 301-443-3242

email: bevilacqual @ mail. nih. gov

Jax: +1-301-480-2839



Manuscript nu	ımber. 2.9	110-6	96	0	18	ي ال	?	.1	. 15	
Author name.	LAURA	BEVI	LAC	CP	116	W S	. 5	a /	1.1	
Article type	ARTICL	毛								

MANUSCRIPT CHECKLIST

The following checklist is intended to aid the publication of your manuscript. Please read through the list carefully and amend your manuscript as appropriate. To avoid delays in the production process, please complete and return this sheet with the final version of your manuscript.

Text

Nature will edit text to conform to house style and for clarity and accessibility. Please check the following points when preparing the final version of your manuscript.

1 -14	nun i	bo Al	200	12200
Lett		(0) N	24 1 1 1	TH
	OI C	F 62 6 X		10

Title no longer than 90 characters (including spaces)
First paragraph referenced and no longer than 300 words
No subheadings in main text
Methods for print no longer than 300 words
Online-only Methods provided as part of the main text file?
No more than 30 references

Articles

- ☑ Title no longer than 75 characters (including spaces)
- First paragraph unreferenced and no longer than 150 words
- No more than 6 main subheadings of up to 40 characters (including spaces)
- ✓ Methods for print no longer than 300 words
- ☑ Online-only Methods provided as part of the main text file?
- No more than 50 references

All manuscripts (if applicable)

- Abbreviations and symbols defined on first use
- Italic font used for variables, genes and non-English languages; bold font for vectors
- Equations and special characters in Word in 'normal text' or Symbol font (Word Equation Editor avoided where possible)
- Authored in Compatibility Mode if using Word 2007 (i.e., as a Word 97-2003 document; saved as .doc format, NOT .docx)
- Brief title provided for each figure, table and box
- ☐ Figure legends no more than 100 words each (300 words each for contributions without methods sections)
- Author contribution statement included (a statement of responsibility that specifies the contribution of every author; see http://www.nature.com/authors/editorial_policies/authorship.html)
- Declaration and listing of any competing interests included in manuscript in the Author Information section (http://www.nature.com/nature/authors/policy/competing.html)
- ☐ Database accession numbers included for sequences determined in this paper
- Structure data in *Nature* standard tables

For TeX users

Word or rtf formats are preferred, unless there is very extensive use of special characters or equations. Such formats enable on-screen subediting and the preparation of a 'pre-proof', when the editing can be checked before formal proofs are prepared. We have found that this minimizes the chance of errors being inadvertently introduced.

□ X47	1
I I Wor	d conversion not practicable

13	-1					
Λ	and.	1 A	11	1		,
LA	1 1	1//	11	31	- 1	C
and a	1	1/1	1/ [- 3-1	¥	۸

Contact our subeditors at authors@nature.com for further help and advice on preparing text for publication.

Nature will edit figures to conform to house style and for clear reproduction in print. Standard figure sizes are 89 mm wide (single column) and 183 mm wide (double column); figures can also be a column-and-a-half width where necessary (120–136 mm). Please check the following points when preparing your figures.

Electronic figure formats

- Preferred file formats for line (or vector) artwork and graphs are unflattened eps, postscript, pdf and Illustrator (ai) files
- Preferred file formats for photographic images are TIFF and Photoshop (minimum resolution 300 dpi). If you have created images with separate components on different layers, please send us the Photoshop file (.psd) with the layers intact
- For a full list of acceptable electronic formats, see http://www.nature.com/nature/authors/submissions/final/ Final_artwork.pdf

When preparing and sending figures

- ☑ Text in an editable format and in sans serif font (Helvetica, Arial)
- ☑ Text and lines clearly visible when figure is sized for page: type size 6–8 point; lines preferably 0.5 point (0.18 mm)
- Colour images in CMYK (not RGB) mode; ensure you are happy with the conversion from RGB to CMYK before submission
- \square Suggestions for cover artwork submitted if desired
- ☐ For reviews/Insight articles, permission obtained for any republished or redrawn illustrations

See http://www.nature.com/nature/authors/submissions/final/Final_artwork.pdf for detailed guidelines. For further help and advice, e-mail our art editors at art@nature.com.

Nature does not edit online-only material. Please check the following points when preparing Supplementary Information:

Supplementary Information

- Discrete items of the Supplementary Information (for example, figures, tables) referred to at an appropriate point in the main text (print version) of the paper
- ☑ Summary diagram/figure included as part of the Supplementary Information (optional)
- Separate text file ('SI Guide') provided with a brief description (file format and content) of each item
- We recommend that all Supplementary Information is supplied as a single PDF file, where possible.

See http://www.nature.com/nature/authors/submissions/final/suppinfo.html for advice on preparing Supplementary Information.

E-mail authors@nature.com if you have additional queries.