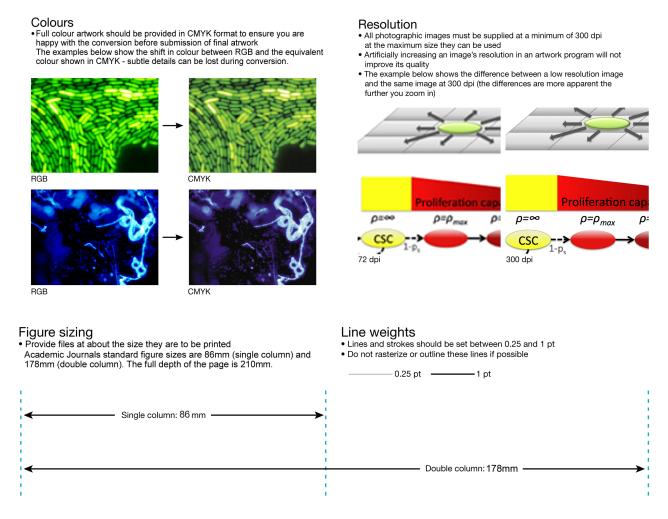
# Guide to preparing artwork for Nature Publishing Group



This guide is to assist authors whose manuscripts have been accepted for publication by Nature Publishing Group. It will help you to prepare artwork so that it will be processed as quickly and smoothly as possible, and give the best possible results in the final printed version. Please follow these instructions carefully. When preparing figures, authors are also advised to refer to printed copies of the relevant journal to get a sense of general size and style points.



## **Formats**

For publication, we prefer to use **TIFF** and **EPS** files in PC format, preferably from Photoshop or Illustrator software. We can also accept Freehand 8, Canvas and CorelDraw (version 8 and above), but these files must be converted to postscript (EPS) format. For any figures submitted in Photoshop or TIFF format we require layered files to be sent whereby all text, arrows or additional attributes are placed on individual layers within the file. We can also accept Adobe PDF (output to print or press settings), native PowerPoint, Word and Excel\* files, provided that each figure element is editable (in these programs the elements should be 'ungrouped'). Please note however that these software packages only allow RGB colour file creation (not suitable for print production), and colour conversions from RGB to CMYK may have unpredictable results.

Ensure all placed or linked pictures are correctly embedded into your final figure files.

For **photographic type images**, Adobe Photoshop 6 is the minimum preferred format. If the image contains layers, please save your image in the native Photoshop format (**PSD**). If not, please save as a **TIFF** file. We also accept **JPEG** and **EPS**. The minimum acceptable resolution is 300 DPI.

For **line art/charts/graphs** we prefer to work with Adobe Illustrator 9 format or Illustrator EPS files. We can also accept Freehand 8, PDF, PostScript (up to Level 3), ChemDraw<sup>TM</sup> (apply settings in the ACS-1996 style sheet) and TeX/LaTeX.

Avoid outputting JPEGs from SPSS/PASW Statistics (any version) as output is automatically restricted to 96 DPI. Other **unacceptable** formats include: CorelDraw (prior to version 8), DeltaGraph and SigmaPlot.

# **Colour images**

For printing purposes, all RGB colours need to be converted to CMYK (cyan/magenta/yellow/black). You should be aware that this can make colours less vibrant and subtle details less apparent.

#### **Tables**

Please submit tables in (editable) Word or Excel\* format at the end of your manuscript. Please avoid setting Table rows in picture format and then saving the document in Word.

\*Please ensure any MS Office 2007 or 2010 files are set to 'compatibility mode' (97-2003), or install Microsoft's Compatibility Pack.

# **Key Notes**

- Colour, 300 dpi minimum; please convert all colour files into CMYK mode
- Greyscale, 600 dpi minimum for blots and black & white photographs
- Line art, 1000 dpi minimum for graphs and illustrations
- Please use sans serif typefaces such as Arial or Helvetica in your artwork and when labelling panels.
- Avoid layering type directly over shaded or textured areas.
- Please ensure that multilayered images are not 'flattened'.

# **Supplementary Information files**

Graphical image files (.gif)
Quick Time files (.mov)
HTML files (.html)
MPEG movie files (.mpg)
JPEG image files (.jpg)
Sound files (.wav)
systems biology markup language (.sbml)

Acrobat files (.pdf)
MS Word documents (.doc)
Postscript files (.ps)
Encapsulated postscript (.eps)
MS Excel spreadsheet documents (.xls)
PowerPoint files (.ppt)
extensible markup language (.xml)

### File size and specifications

File sizes must be as small as possible, so that they can be downloaded quickly. The number of files should be limited to eight, and the total file size should not exceed 8MB. Individual files should not exceed 1MB. Please seek advice from the editorial office before sending files larger than our maximum size to avoid delays in publication.

Images should not exceed **640 x 480 pixels** (9 x 6.8 inches at 72 pixels per inch) but we would recommend **480 x 360 pixels** as the maximum frame size for movies. We would also recommend a frame rate of **15 frames per second**. All supplementary information must have its own legend and must be referred to in the manuscript.