# Cell Death & Disease

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#### **ABOUT THE JOURNAL**

#### **Aims and Scope**

Cell Death & Disease is a journal devoted to the biology of cell death, survival, stemness and differentiation in the pathogenesis of human diseases or relevant animal models. The journal aims to publish papers that present novel observations in the field of cell death, though with pathophysiological or medical implications.

Particular emphasis will be given to clinical, translational and applied research through its five sections:

- Experimental Medicine
- Cancer
- Immunity
- Internal Medicine
- Neuroscience

To this end, in conjunction with its sister journals *Cell & Differentiation* and *Cell Death Discovery*, *Cell Death & Disease* provides a unified forum for scientists as well as clinicians and members of the pharmaceutical and biotechnology industry. It is committed to the rapid publication of high quality original papers that relate to these subjects, together with topical, usually solicited, reviews, meeting reports, editorial correspondence and occasional commentaries on controversial and scientifically informative issues.

Cell Death & Disease is an open access online journal, published on behalf of the CDD Press by Springer Nature Ltd.

Cell, Death & Disease is fully committed to ensuring the accuracy of the scientific record. See Editorial Policies.

#### **Journal Details**

#### **Editors-in Chief:**

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Yufang Shi, Shanghai Institutes for Biological Sciences of Chinese Academy of Sciences, & Shanghai Jiao Tong University School of Medicine, China Hans-Uwe Simon, University of Bern, Switzerland

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### **ARTICLE TYPE SPECIFICATIONS**

ARTICLE DESCRIPTION	ABSTRACT	WORD LIMIT	TABLES/ FIGURES	REFERENCES
Article  An Article is a substantial, in-depth, novel research study of interest to the readership of the journal. The structure an Article should follow is detailed below.	Unstructured abstract, max. 300 words	3,500 words maximum excluding abstract, materials & methods, references, figures and tables	Max of 6-8	Max of 80
Review Article A Review Article is an authoritative, balanced survey of recent developments in a research field. Review Articles are regularly commissioned; however, pre-submission enquiries are also welcome. Please contact the editorial office	Unstructured abstract, max. 300 words	main body of text (excluding abstract, tables/figures, and references) not to exceed 5,000 words	Minimum of 4	Max of 150
Perspective Perspectives are shorter than reviews and provide an opinion- driven perspective on a particular research topic or field of interest to the CDDis readership. Authors should present a (provocative) view that can be supported by data and literature with the goal of sparking debate and stimulating future research avenues.	Unstructured abstract, max. 300 words	main body of text (tables/figures, and references) not to exceed 2,500 words	Max of 2	Max of 100
Editorial	No abstract	1,200 words max excluding abstract, references, figures and tables.	Max of 1	Max of 15
Comment	No abstract	1,200 words max excluding abstract, references, figures and tables.	Max of 1	Max of 15
Meeting Report	No abstract	1,200 words excluding references, figures and tables.	Max of 1	0

#### PREPARATION OF ARTICLES

Please refer to the 'Submission Checklist' on page 15 for a checklist of what to include at each stage of submission.

House Style: Authors should adhere to the following formatting guidelines

- Text should be double spaced with a wide margin.
- All pages and lines are to be numbered.
- Do not make rules thinner than 1pt (0.36mm).
- Use a coarse hatching pattern rather than shading for tints in graphs.
- Color should be distinct when being used as an identifying tool.
- Spaces, not commas should be used to separate thousands.
- At first mention of a manufacturer, the town (and state if USA) and country should be provided.
- Statistical methods: For normally distributed data, mean (SD) is the preferred summary statistic. Relative risks should be expressed as odds ratios with 95% confidence interval. To compare two methods for measuring a variable the method of Bland & Altman (1986, Lancet 1, 307–310) should be used; for this, calculation of P only is not appropriate.
- Units: Use metric units (SI units) as fully as possible. Preferably give measurements of energy in kiloJoules or MegaJoules with kilocalories in parentheses (1 kcal = 4.186kJ). Use % throughout.
- Abbreviations: On first using an abbreviation place it in parentheses after the full item. Very common abbreviations such as FFA, RNA, need not be defined.
   Note these abbreviations: gram g; litre l; milligram mg; kilogram kg; kilojoule kJ; megajoule MJ; weight wt; seconds s; minutes min; hours h. Do not add 's' for plural units. Terms used less than four times should not be abbreviated.

Please note that articles must contain the following components. Please see below for further details.

#### Original Article

- Cover letter
- Title page (excluding acknowledgements)
- Abstract
- Introduction
- Results
- Discussion
- Materials (or Subjects) and methods
- References
- Acknowledgements
- Conflict of Interest Statement
- Author Contribution Statement
- Ethics Statement
- Funding Statement
- Data Availability Statement
- Figure legends
- Tables
- Figures
- Original full length western blots

#### Review Article

- Cover letter
- Title Page (excluding acknowledgements)
- Abstract
- Bullet Points
- Main Text
- References
- Acknowledgements
- Conflict of Interest Statement
- Author Contribution Statement
- Ethics Statement
- Funding Statement
- Data Availability Statement
- Figure legends
- Tables
- Figures

#### **Supporting Documents**

Cover Letter: The uploaded cover letter must state the material is original research, has not been previously published and is not currently being considered for publication elsewhere. If the manuscript has been previously considered for publication in another journal, you may include the previous reviewer comments, to help expedite the decision by the Editorial team.

Reproducibility Checklist: Cell Death & Disease requires authors of original research papers that are sent for external review to include in their manuscripts relevant details about several elements of experimental and analytical design. This initiative aims to improve the transparency of reporting and the reproducibility of published results, focusing on elements of methodological information that are frequently poorly reported. Authors being asked to resubmit a manuscript will be asked to confirm that these elements are included by filling out a checklist that will be made available to the editor and reviewers.

#### Manuscript

Title Page: The title page should contain:

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- Competing Interests statement (see <u>Editorial Policy</u> section). Authors should disclose the sources of any support for the work received in the form
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Bullet Points (Reviews only): Reviews should include a list of "FACTS" (a list of 3 to 5 bullet points highlighting the major queries, debatable facts, that should/could become a major subject of research in the near future) and a list of "OPEN QUESTIONS". These should be placed after the Abstract, before the Introduction. See for example a *CDD* review in the September 2011 issue (Carbone et al. Consensus report of the 8 and 9th Weinman Symposia on Gene x Environment Interaction in carcinogenesis: novel opportunities for precision medicine. Cell Death Differ. 2018 Sep; 25:1885-1904. doi: 10.1038/s41418-018-0213-5

Introduction: The Introduction should assume that the reader is knowledgeable in the field and should therefore be as brief as possible but can include a short historical review where desirable.

#### Results

The Results section should briefly present the experimental data in text, tables or figures. Tables and figures should not be described extensively in the text.

#### **Discussion**

The Discussion should focus on the interpretation and the significance of the findings with concise objective comments that describe their relation to other work in the area. It should not repeat information in the results. The final paragraph should highlight the main conclusion(s), and provide some indication of the direction future research should take.

Materials/Subjects and Methods: This section should contain sufficient detail, so that all experimental procedures can be reproduced. Methods, that have been published in detail elsewhere do not have to be repeated, but must be fully referenced. Authors should provide the name of the manufacturer and their location for any specifically named medical equipment and instruments, and all drugs should be identified by their pharmaceutical names, and by their trade name if relevant.

References: Only papers directly related to the article should be cited. Exhaustive lists should be avoided. References should follow the Vancouver format. In the text they should appear as numbers starting at one and at the end of the paper they should be listed (double-spaced) in numerical order corresponding to the order of citation in the text. Where a reference is to appear next to a number in the text, for example following an equation, chemical formula or biological acronym, citations should be written as (ref. X) and not as superscript. Example "detectable levels of endogenous Bcl-2 (ref. 3), as confirmed by western blot"

All authors should be listed for papers with up to six authors; for papers with more than six authors, the first six only should be listed, followed by *et al.*Abbreviations for titles of medical periodicals should conform to those used in the latest edition of Index Medicus. The first and last page numbers for each reference should be provided. Abstracts and letters must be identified as such. Papers in press may be included in the list of references.

Personal communications can be allocated a number and included in the list of references in the usual way or simply referred to in the text; the authors may choose which method to use. In either case authors must obtain permission from the individual concerned to quote his/her unpublished work. Examples:

Journal article:

Nguyen D, Soygur B, Peng S, Malki S, Hu G & Laird DJ. Apoptosis in the fetal testis eliminates developmentally defective germ cell clones. *Nat Cell Biol* 22, 1423-1435 (2020)

Journal article, e-pub ahead of print:

Basar, MA, Beck DB & Werner A. Deubiquitylases in developmental ubiquitin signaling and congenital diseases. Cell Death Differ (2020).

#### https://doi.org/10.1038/s41418-020-00697-5

#### Complete book:

Atkinson K, Champlin R, Ritz J, Fibbe W, Ljungman P, Brenner MK (eds). Clinical Bone Marrow and Blood Stem Cell Transplantation. 3rd edn. (Cambridge University Press, Cambridge, 2004).

#### Chapter in book:

Coccia PF. Hematopoietic cell transplantation for osteopetrosis. In: Blume KG, Forman SJ, Appelbaum FR (eds). Thomas' Hematopoietic Cell Transplantation. 3rd edn. (Blackwell Publishing Ltd, Malden, 2004) 1443–1454.

#### Abstract

Syrjala KL, Abrams JR, Storer B, Heiman JR. Prospective risk factors for five-year sexuality late effects in men and women after haematopoietic cell transplantation. Abstracts of the 32nd Annual Meeting of the European Group for Blood and Marrow Transplantation. *Bone Marrow Transplant* 37, O107 (2006)

#### Website

Kassambara A. rstatix: pipe-friendly framework for basic statistical tests. 2020. https://rpkgs.datanovia.com/rstatix/.

#### Preprint

Babichev SA, Ries J & Lvovsky Al. Quantum scissors: teleportation of single-mode optical states by means of a nonlocal single photon. Preprint at http://arXiv.org/quant-ph/0208066 (2002).

#### Acknowledgements

These should be brief, and should include sources of support including sponsorship (e.g. university, charity, commercial organization) and sources of material (e.g. novel drugs) not available commercially.

Conflict of Interest: A Conflict of Interest statement is mandatory. Authors must declare whether or not there are any competing financial interests in relation to the work described. This information must be included at this stage and will be published as part of the paper. Conflict of interest should be noted in the cover letter and also on the title page. Please see the Conflict of Interest documentation in the Editorial Policy section for detailed information.

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To understand more about authorship definitions, please refer to the <u>ICMJE Authorship Guidelines</u>.

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- A statement on ethics approval and consent (even where the need for approval was waived)
- The name of the ethics committee that approved the study and the committee's reference number if appropriate
- A statement that the study was performed in accordance with the Declaration of Helsinki.

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For more detailed information, please refer to the section on 'Human and Other Animal Experiments' under 'Editorial Policies' on page 12.

If your study did not require ethical approval, please state this.

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Where possible large figures and tables should be included as supplementary material.

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- Plotting individual data points is preferred to just showing means, especially when N<10</li>
- If error bars are shown, they must be described in the figure legend
- Axes on graphs should extend to zero, except for log axes
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- The number of times an experiment was repeated (N) must be stated in the legend

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- (2) A marked-up version of the manuscript that highlights changes made in response to the reviewers' comments in order to aid the Editors and reviewers.
- (3) A 'clean' (non-highlighted) version of themanuscript.

#### Summary of the editorial process

- The author submits a manuscript and it receives a tracking number.
- The editorial office performs an initial quality check on the manuscript to ensure that the paper is formatted correctly.
- An Editor is assigned to the manuscript and decides whether to send the manuscript out to review. If the decision is not to send the manuscript for review, the Editor contacts the author with the decision.
- If the Editor decides the paper is within the Journal's remit, peer reviewers are selected and assigned. This can take some time dependent on the responsiveness and availability of the reviewers selected.
- Reviewers are given 14 days from acceptance to submit their reports. Once the required reports are submitted the Editor will make a decision based on the comments received.

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#### **Peer review**

To expedite the review process, only papers that seem most likely to meet editorial criteria are sent for external review. Papers judged by the editors to be of insufficient general interest or otherwise inappropriate are rejected promptly without external review.

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Once a sufficient number of reviews are received, the editors then make a decision based on the reviewers' evaluations

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- Accept in Principle The manuscript is ready to be accepted, pending any remaining Quality Control and formatting requirements, to ensure the
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- Minor or major revision In cases where the editor determines that the authors should be able to address the referees' concerns in six months or less the editor may request a revised manuscript that addresses these concerns. The revised version is normally sent back to some or all of the original referees for re-review. The decision letter will specify a deadline for receipt of the revised manuscript and link via which the author should upload to the online submission system.
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- 4. Approved the final version.
- 5. Agreed to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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Financial relationships are the most easily identifiable conflicts of interest and the most likely to undermine the credibility of the journal, the authors, and science itself. However, conflicts can occur for other reasons, such as personal relationships, academic competition, and intellectual passion.

In the interests of transparency and to help readers form their own judgments of potential bias, authors must declare whether or not there are any competing financial interests in relation to the work described. This information must be included in their cover letter and on the title page of their manuscript. In cases where the authors declare a competing financial interest, a statement to that effect is published as part of the article. If no such conflict exists, the statement will simply read that the authors have nothing to disclose. For the purposes of this statement, competing interests are defined as those of a financial nature that, through their potential influence on behavior or content, or from perception of such potential influences, could undermine the objectivity, integrity or perceived value of a publication. They can include any of the following:

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- Conflict of interest.
  - The authors declare no conflict of interest.
- Conflict of interest.

Dr Caron's work has been funded by the NIH. He has received compensation as a member of the scientific advisory board of Acadia Pharmaceutical and owns stock in the company. He also has consulted for Lundbeck and received compensation. Dr Rothman and Dr Jensen declare no potential conflict of interest

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When reporting experiments on human subjects, authors must indicate whether the procedures were in accordance with the ethical standards of the responsible committee on human experimentation (institutional or regional) or with the Helsinki Declaration of 1975 (as revised in 1983). Include Institutional Review Board or Animal Care and Use Committee approvals.

All clinical trials must be registered in a public registry prior to submission. The journal follows the trials registration policy of the ICMJE (<a href="https://www.icmje.org">www.icmje.org</a>) and considers only trials that have been appropriately registered before submission, regardless of when the trial closed to enrolment. Acceptable registries must meet the following ICMJE requirements:

- be publicly available, searchable, and open to all prospective registrants
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- be managed by a not-for-profit organization

Examples of registries that meet these criteria include:

- 1. the registry sponsored by the United States National Library of Medicine (www.clinicaltrials.gov);
- 2. the International Standard Randomized Controlled Trial Number Registry (www.controlled-trials.com);
- 3. the Cochrane Renal Group Registry (http://www.cochrane-renal.org);
- 4. and the European Clinical Trials Database (https://eudract.ema.europa.eu/).

The trial registry number must be included in the manuscript and provided on submission.

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Publication of identifiable images from human research participants (or a parent or legal guardian for participants under the age of 16 years) must be accompanied by a statement attesting that the authors have obtained consent to publication of the images. If the participant is deceased, consent must be sought from the next of kin of the participant. In all such instances, all reasonable measures must be taken to protect patient anonymity. Black bars over the eyes are not acceptable means of anonymization. In certain cases, the journal may insist upon obtaining evidence of informed consent from authors. Images without appropriate consent must be removed from publication.

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Falsification is the practice of altering research data with the intention of giving a false impression. This includes, but is not limited to, manipulating images, removing outliers or "inconvenient" results, or changing, adding or omitting data points. Fabrication is the practice of inventing data or results and recording and/or reporting them in the research record. Data falsification and fabrication call into question the integrity and credibility of data and the data record, and as such, they are among the most serious issues in scientific ethics.

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- request additional information from the author, including original data or images or ethics committee or IRB approval;
- make inquiries of other titles believed to be affected;
- forward concerns to the author's employer or person responsible for research governance at the author's institution;
- refer the matter to other authorities or regulatory bodies (for example, the Office of Research Integrity in the US or the General Medical Council in the UK); or
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Please note that, in keeping with the journal's policy of the confidentiality of peer review, if sharing of information with third parties is necessary, disclosure will be made to only those Editors who the Editor believes may have information that is pertinent to the case, and the amount of information will be limited to the minimum required.

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- Authors should list all image acquisition tools and image processing software packages used. Authors should document key image- gathering settings and processing manipulations in the Methods section.
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- Touch-up tools, such as cloning and healing tools in Photoshop, or any feature that deliberately obscures manipulations, is to be avoided.
- Processing (such as changing brightness and contrast) is appropriate only when it is applied equally across the entire image and is applied equally
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  image at the expense of others (for example, through the use of a biased choice of threshold settings), is inappropriate, as is emphasizing
  experimental data relative to the control.

For **gels and blots**, positive and negative controls, as well as molecular size markers, should be included on each gel and blot – either in the main figure or an expanded data supplementary figure. The display of cropped gels and blots in the main paper is encouraged if it improves the clarity and conciseness of the presentation. In such cases, the cropping must be mentioned in the figure legend.

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- High-contrast gels and blots are discouraged, as overexposure may mask additional bands. Authors should strive for exposures with gray backgrounds. Immunoblots should be surrounded by a black line to indicate the borders of the blot, if the background is faint.
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- The display lookup table (LUT) and the quantitative map between the LUT and the bitmap should be provided, especially when rainbow pseudo-colour is used. It should be stated if the LUT is linear and covers the full range of the data.
- Processing software should be named and manipulations indicated (such as type of deconvolution, three-dimensional reconstructions, surface and volume rendering, 'gamma changes', filtering, thresholding and projection).
- Authors should state the measured resolution at which an image was acquired and any downstream processing or averaging that enhances the
  resolution of the image.

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If human cell lines are used, authors are strongly encouraged to include the following information in their manuscript:

- the source of the cell line, including when and from where it was obtained,
- whether the cell line has recently been authenticated and by what method, and
- whether the cell line has recently been tested for mycoplasma contamination.

Further information is available from the International Cell Line Authentication Committee (ICLAC). We recommend that authors check the NCBI database for misidentification and contamination of human cell lines.

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Authors should use approved nomenclature for gene symbols, and use symbols rather than italicized full names (Ttn, not titin). Please consult the appropriate nomenclature databases for correct gene names and symbols. Approved human gene symbols are provided by HUGO Gene Nomenclature Committee (HGNC), <a href="https://www.genenames.org">www.genenames.org</a>, mouse symbols are provided by The Jackson Laboratory, <a href="https://www.informatics.jax.org/mgihome/nomen\_">www.informatics.jax.org/mgihome/nomen\_</a>, and other model organism databases <a href="https://www.informatics.jax.org/mgihome/nomen\_">[Flybase</a>, <a href="https://www.genenames.org</a>, mouse symbols are provided by The Jackson Laboratory</a>, <a href="https://www.informatics.jax.org/mgihome/nomen\_">www.informatics.jax.org/mgihome/nomen\_</a>, and other model organism databases <a href="https://www.informatics.jax.org/mgihome/nomen\_">[Flybase</a>, <a href="https://www.informatics.jax.org/mgihome/nomen\_">www.informatics.jax.org/mgihome/nomen\_</a>, and other model organism databases <a href="https://www.informatics.jax.org/mgihome/nomen\_">[Flybase</a>, <a href="https://www.informatics.jax.org/mgihome/nomen\_">www.informatics.jax.org/mgihome/nomen\_</a>, and other model organism databases <a href="https://www.informatics.jax.org/mgihome/nomen\_">www.informatics.jax.org/mgihome/nomen\_<

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Refer to section on 'Preparation of Manuscripts' (page 3) for further details

INITIAL SUBMISSION	REVISION	ACCEPTED IN PRINCIPLE

Cover letter	Rebuttal letter	
- Declaration not submitted elsewhere	- Point-by-point response to the reviewers	
<ul> <li>Concise description of majorfindings</li> </ul>	- If you disagree with the reviewers, please	
	provide evidence	
Article file	'Marked up' article file	'Clean' Article file
- Uploaded as a Word file	- Uploaded as a Word file	- Uploaded as a Word file
- Title page	- Title page	- Title page
- Abstract (unstructured)	- Abstract (unstructured)	- Abstract (unstructured)
- Main text	- Main text	- Main text
- References	- References	- References (correctly formatted)
Please also include:	Please also include:	Please also include:
- Conflict of Interest statement	- Conflict of Interest statement	<ul> <li>Conflict of Interest statement</li> </ul>
- Ethics statement	- Ethics statement	- Ethics statement
		- Author Contribution statement
		- Funding statement
		- Data Availability Statement
	'Clean' article file	- Acknowledgements
	- As above but 'clean'	
	- Uploaded as 'Related Manuscript File'	
Figure legends	Figure legends	Figure legends
<ul> <li>Included in main article file</li> </ul>	- Included in main article file	<ul> <li>Included in main article file</li> </ul>
- Where appropriate, declare N	- Where appropriate, declare N	- Where appropriate, declare N
- Define error bars	- Define error bars	- Define error bars
- Define scale bars	- Define scale bars	- Define scale bars
Figures	Figures	Figures
- Uploaded as individual TIFF or PNG files	- Uploaded as individual TIFF or PNG files	<ul> <li>Uploaded as individual TIFF or PNG files</li> </ul>
- Where appropriate, include molecular	- Where appropriate, include molecular	<ul> <li>Where appropriate, include molecular</li> </ul>
weight markers	weight markers	weight markers
- Where appropriate, include scale bars	- Where appropriate, include scale bars	- Where appropriate, include scale bars
Tables	Tables	Tables
- Uploaded in an editable format	- Uploaded in an editable format	- Uploaded in an editable format
	0 1 1 61	Supplementary files
Supplementary files	Supplementary files	1
- Uploaded as 'Supplemental Material'	- Uploaded as 'Supplemental Material'	- Uploaded as 'Supplemental Material'
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- Uploaded as 'Supplemental Material' - Do not include in merged article file  Original western blots	- Uploaded as 'Supplemental Material' - Do not include in merged article file  Original western blots	- Uploaded as 'Supplemental Material' - Do not include in merged article file  Original western blots
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## Do's & Don'ts

## 1. Images

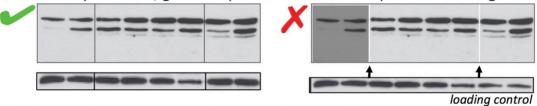
1. DO NOT use excessive contrast, removing the background or part of the image



2. DO NOT adjust the **brightness or contrast** only in specific areas of the image. If necessary, apply the same appropriate adjustments to the ENTIRE image.



3. INDICATE <u>splicing of lanes</u> and PROVIDE the <u>full scan as supplementary data</u>. Images from different experiments, gels or exposures CANNOT be spliced into a single image.



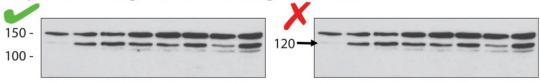
4. DO NOT overcrop gels. Mark unknown or cross reactive bands with an asterisk.



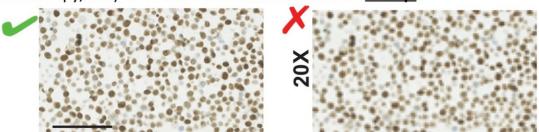
5. DO NOT remove any part of the image, including spots and background.



6. Always INCLUDE original molecular weight markers.



7. All microscopy MUST INCLUDE an appropriate <u>scale bar</u>. All digital images (gels, microscopy, etc.) MUST have a resolution of at least **300 dpi**.



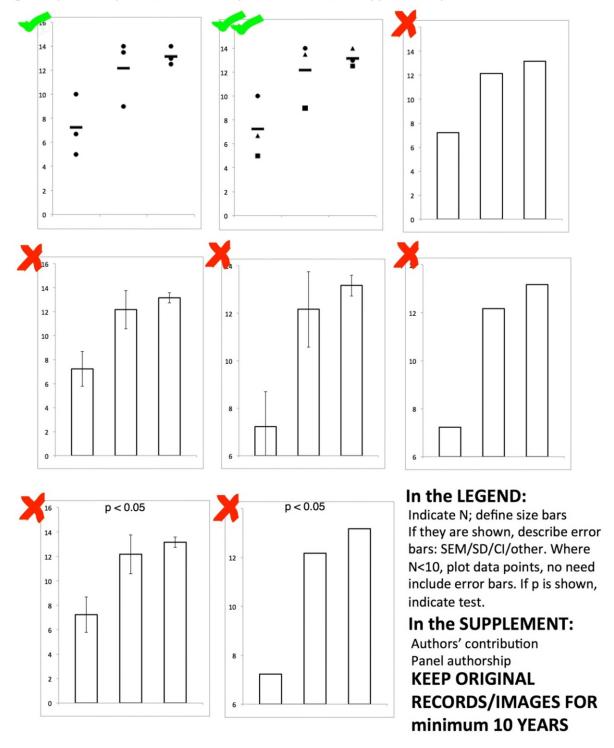




## Do's & Don'ts

## 2. Graphs

Show independent data points, rather than using bar graphs. Show means of replicates as a single point, not each replicate. Don't show error bars or p-values when N<10. If error bars are shown, describe them in the legend. Start axes from zero (except for log axes). Use different symbols for sets of independent biological repeated experiments. Include spread-sheet data in supplementary materials.





Cell Death & Differentiation

Cell Death & Disease

Cell Death Discovery

...where the impact is a FACT, not a factor !!!