

Author Guidelines

Did you know... *Journal of Neurochemistry* has no page charges?

Instructions to Authors

During submission, authors will be asked to indicate:

- Full author affiliations (salutation, first and last (family) name, institution, department, city, email address)
- Title, abstract, up to 6 keywords for the manuscript
- An area the manuscript fits in (Genetics & Gene Regulation, Signal Transduction & Synaptic Transmission, Brain Development & Cell Differentiation, Bioenergetics & Metabolism, Neuroinflammation & Neuroimmunology, Neuronal Plasticity & Behavior, Molecular Basis of Disease)
- Names of preferred referees (full name and email address) and handling editors; while this option is not mandatory, suggestions are welcomed. Non-preferred referees may be indicated, if needed.
- Cover letter to the Editor
- Details of whether the manuscript is a resubmission (if yes, you will need to provide the previous manuscript ID)
- If the manuscript has colour figures
- If the first or last author is younger than age 35 (for the manuscript to be eligible for the Mark A. Smith Award)
- If you are an ISN member
- All manuscript files:
 - Main text file including figure and table legends as .doc, .docx or .rtf
 - Tables (may also be included at the end of the main text file)
 - Figures as .tiff, .eps or .pdf (one file per figure) with at least 300 dpi resolution
 - Supplementary Files, if any, merged into one single .pdf file wherever possible
- Alternatively, a single .ps or .pdf file may be uploaded containing all files including tables and figures. Refer to the Author Guidelines for further information on file requirements.
- Manuscripts are restricted to a length of 10,000 words (including references) which have to be reduced proportionally to accommodate figures and tables (one printed page corresponds to about 1,000 words; each half page size figure is about 500 words). The *total* word count of Abstract, Introduction, Methods, Results, Discussion, Acknowledgments and References will be requested.
- During submission, supplementary material (movie files, supporting information) may be uploaded
- The Journal of Neurochemistry encourages authors to submit images which would be suitable to use on the front cover of the journal. If you have any such images, you may upload your suggestion during the submission process. Please ensure that your image has a minimum of 300 dpi resolution in accordance with the size of the image being no less than 100 mm in height and 213 mm wide.

Online submission is available at ScholarOne (formerly known as Manuscript Central):

<http://mc.manuscriptcentral.com/jneurochem>

Full instructions are provided below.

I. GENERAL

1. *Journal of Neurochemistry* continues to be a leading source for research into all aspects of neuroscience, with a particular focus on molecular and cellular aspects of the nervous system, the pathogenesis of neurological disorders and the development of disease specific biomarkers. It is devoted to the prompt publication of original findings of the highest scientific priority and value.

Submission online ensures rapid review and allows online manuscript tracking. Instructions and support are also available online from the JNC submission site at <http://mc.manuscriptcentral.com/jneurochem> under "Resources".

If you require assistance, please contact the [Editorial Coordinator](#) in Seattle or the [Editorial Coordinator](#) in Aachen.

2. Four types of papers are considered:

(a) **Original Articles** (full papers) should be written in the style described in section II.

(b) **Short Communications** present a definite new major finding of significant impact and should be written in the style described in section II. They are limited to four printed pages (Abstract, Introduction, Materials and Methods, Results and Discussion, References and figure legends; one printed page corresponds to about 1,000 words or 500 words and a half-page figure). Additionally, Short Communications may include no more than 4 figures and/or tables. There will be no supplemental material.

(c) **Systematic reviews** should be submitted in the same format as original articles.

(d) Narrative **Reviews** are usually invited. For narrative reviews it is recommended to send first a synopsis to the [Editor for Reviews](#). Reviews should not occupy more than 14 printed pages of the journal and should be authoritative and topical accounts of the subject area.

Unsolicited narrative reviews will be considered but subjected to rigorous editorial assessment.

3. Submission of previously published material

Submission of a paper to *Journal of Neurochemistry* will be held to imply that it represents original research not previously published (except as a meeting abstract, or written dissertation, or non peer-reviewed preliminary report - any of which to be explicitly stated and cited), that it is not being considered for publication elsewhere save the above mentioned exceptions, and that, if accepted, it will not be published elsewhere in similar form, in any language, without the consent of the International Society for Neurochemistry.

4. Ethical considerations

4.1 Ethical standards

- The research being reported should have been conducted in an ethical and responsible manner and should comply with all relevant legislation.
- Researchers should present their results clearly, honestly, and without fabrication, falsification or inappropriate data manipulation.
- Researchers should strive to describe their methods clearly and unambiguously so that their findings can be confirmed by others.
- Researchers should adhere to publication requirements that submitted work is original, is not plagiarised, and has not been published elsewhere.
- Authors should take collective responsibility for submitted and published work.
- The authorship of research publications should accurately reflect individuals' contributions to the work and its reporting.
- Funding sources and relevant conflicts of interest should be disclosed.

(a) Authors are expected to abide by accepted ethical standards such as the **COPE guidelines**¹:

Experiments should be carried out **in accordance with the Guidelines laid down by the relevant National Agency**. An according **statement needs to be included into the methods** (see [here](#)). Editors reserve the right to reject papers if there is doubt whether appropriate procedures were followed.

(b) The Chief Editors of JNC expect corresponding authors to refer to the 'ARRIVE' guidelines for reporting research (www.nc3rs.org.uk/ARRIVE) before submission of a manuscript. While the guidelines refer to animal experiments, most of the elements are common to all forms of research communication and adherence will strengthen the transparency and completeness of reporting.

(c) *Journal of Neurochemistry* uses iThenticate plagiarism software as part of the editorial process for manuscripts approaching acceptance. The software identifies matching text in different documents, which can highlight possible cases of plagiarism for the editorial office to investigate further. By submitting their manuscript to this journal authors accept that their manuscript may be screened for plagiarism against their own and others' previously published works.

(d) The corresponding author takes responsibility for the integrity of the work as a whole, from inception to published article. It is assumed that all authors have seen and approved the submission.

4.2 Authorship

Authorship on a manuscript submitted to Journal of Neurochemistry should be based on the following criteria defined by the International Committee of Medical Journal Editors²:

1) substantial contribution to conception and design, data acquisition, analysis or interpretation; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. If not all criteria are met, contributors should be listed with their respective contribution in the Acknowledgments instead.

¹ Developed by the **Committee on Publication Ethics (COPE)** during the 2nd World Conference on Research Integrity in Singapore in 2010 (see <http://publicationethics.org/resources/international-standards>)

See also: Wager E & Kleinert S (2011) Responsible research publication: international standards for authors. A position statement developed at the 2nd World Conference on Research Integrity, Singapore, July 22-24, 2010. Chapter 50 in: Mayer T & Steneck N (eds) *Promoting Research Integrity in a Global Environment*. Imperial College Press / World Scientific Publishing, Singapore (pp 309-16). (ISBN 978-981-4340-97-7).

² www.icmje.org/ethical_1author.html

4.3 Ethical violations: Definitions and sanctions

Any (suspected) ethical violation, error or mistake - as per the definitions below - reported for a manuscript submitted to or published in *Journal of Neurochemistry* will be investigated by the Editorial Board. Depending on the kind and severity of the reported problem, the following measures may be taken:

Retraction: A publication identified as having such significant concerns that the veracity of the described findings are unsafe or in doubt. A paper would only be retracted after consultation/agreement between the Chief Editor/Publication Committee, the authors and the publisher, and usually following formal investigation by the institution where the work was carried out and/or a national body.

Corrigendum: A significant error discovered after publication, and shown with its [correction](#) on a separate sheet. A solution usually initiated by the authors, with the approval of the publication committee and the publishers.

Erratum: Listing of a relatively minor error in a published work by tacit agreement between the authors, the publication committee, and the publishers.

(i) Data fabrication or plagiarism of data from others

For any work submitted to or already accepted in *Journal of Neurochemistry* for publication, fabricating or plagiarizing data from others will carry a ban on future submissions for up to the maximum of 8 years.

(ii) Duplicate publication and self-plagiarism

In the case of discernible duplicate publication/self-plagiarism the earliest version will stand as the publication of record and the editors of later versions will be responsible for applying sanctions against authors (below). In the case of duplicate submission/self-plagiarism the editors will not proceed with manuscript review, will inform each other, and apply appropriate sanctions:

Duplicate submission will carry a ban on future submissions for up to 2 years. **Self-plagiarism** of text, **undisclosed conflict or ethical issues** will carry anything from a reprimand up to a 2 year ban on submission.

For any work already accepted for publication in *Journal of Neurochemistry*, a ban on future submissions for up to the maximum of 8 years will be imposed.

5. New scientific/technological developments

Publication of descriptions of new recombinant nucleic acid or monoclonal antibody preparations will be on the understanding that the authors are willing to supply samples of such materials in response to reasonable scientific requests.

II. MANUSCRIPT REQUIREMENTS

1. Length restrictions

(a) **Original Article** manuscripts that are judged to be longer than **10 journal pages** (including figures and tables) will be returned to the authors for shortening without review, unless valid justification is provided. 10 journal pages is equivalent to 10,000 words which must however be reduced proportionately to allow for figures and tables (which on average fill half a page each). Ancillary data should be published online only as supporting information.

(b) **Short Communications** are limited to **4 printed pages including a maximum of 4 figures and/or tables**. There will be no supplemental material. Otherwise, they should follow the same style guideline as described in the following.

(c) Manuscripts should not be numbered in series, but subtitles are acceptable.

2. Layout

Quick guide (for more information, see detailed instructions below)	Initial submission	Revisions
Text and figure requirements	Prepare manuscript either containing all text, tables, figures and legends and supporting information in a single PDF , or in the format listed under "Revisions"	Upload 1.) point-by-point reply to earlier reviewer comments 2.) main text (.doc, .docx or .rtf) including all tables and figure legends, but no figures; <u>highlight changes</u> to the previous version 3.) figures as 300 dpi *.tiff, *.eps or *.pdf files (one file per figure) 4.) supporting information merged into one single PDF (except for video files etc. which cannot be converted into PDF format) 5.) Copyright Transfer Agreement Form 6.) graphical abstract for the In this issue section (~60 words describing background, main novel finding and implications of your study, accompanied by a summarizing schematic (*.tiff, 300 dpi resolution) that is explained by the text or self-explanatory; ensure you hold the <u>copyright</u> for the image
Length restriction	- ensure your manuscript length does not exceed 10,000 words including figures (each figure corresponds to about 500 words)	
Title and Abstract	- try to find an informative, concise title that contains important search words - ensure your abstract does not exceed 200 words	
Methods	- indicate sex and source of animals used in the study, if applicable - include separate section on Statistical Analysis	
Acknowledgements	- include funding sources - include statement regarding conflict of interests - list persons who contributed to the work, but do not meet the criteria for authorship (see section 4.2 Authorship), with their respective contribution	
Suggestion of referees/handling editors	- suggestions of referees are strongly encouraged (please indicate first name, middle initials (!), last name email address and institution). It is also very strongly encouraged to suggest preferred handling editors.	
Miscellaneous	- ensure you have full names and email addresses of your co-authors and of any reviewers (preferred or non-preferred) who you might like to suggest for the review process	

Manuscripts should be double-spaced throughout and with margins at least 2.5 cm wide. Pages should be numbered in succession, the title page being page 1. They should contain the following sections:

(a) Title page

The title page includes **title, authors names, author affiliations, laboratory of origin, address, telephone and fax numbers**, and must include the **email address** of the person to whom proofs and

reprint requests should be addressed, and any necessary **footnotes**, including one **defining abbreviations** used in the text (see section III.6).

(b) Abstract

The abstract should not exceed **200 words**. Only the abbreviations allowed without definition (see section III.6) may be used in the abstract. Authors should also provide up to **6 keywords**, and a **running title not exceeding 45 characters** in length.

Authors shall pay particular attention to the **title** and abstract of their manuscript to optimize these for A&I keyword searches, see <http://authorservices.wiley.com/bauthor/seo.asp>; Editors reserve the right to suggest modification. The title should be concise, appealing to readers and reflect the most important or novel aspect of the manuscript. The abstract should clearly **state the objectives** of the described study.

(c) Introduction

Exhaustive reviews of the literature should be avoided. The introduction should clearly **state the objectives** of the described study.

(d) Methods (go [back](#) to Ethical Considerations)

All studies using human or animal subjects should include an explicit statement identifying the Institution or Review Committee which **approved** the study. The Materials and Methods section must briefly but explicitly state measures which were taken to **minimize pain or discomfort**. When human subjects are used, manuscripts must be accompanied by a statement that the experiments were undertaken with the understanding and written **consent of each subject**, and that the **study conforms with The Code of Ethics of the World Medical Association** (Declaration of Helsinki), printed in the *British Medical Journal* (18 July 1964). Authors should make a statement in the Methods section that the **ARRIVE guidelines** have been followed. Special chemicals etc. with their sources should be grouped under a separate subheading **Materials**. Procedures should be given in sufficient detail to permit the repetition of the work by others. Published procedures should be summarized, but not described in detail unless they have been substantially modified. If the procedures used are described in detail in articles that are in press, copies of such unpublished articles must accompany the submitted manuscript. Methods should contain a **discrete section for statistics**.

(e) Results

The findings should be described without discussion of their significance. Experimental conclusions should normally be based on an adequate number of observations with statistical analysis of variance and the significance of differences. For figure and table requirements see section II, 4. Please see also section III for further information. Data should be presented as clearly defined **mean values with some measure of their dispersion** (e.g. standard deviation or standard error, and range) and an indication, with appropriate **symbols, of the statistical significance** of differences from control values (e.g. $*p <$).

(f) Discussion

The significance of the findings should be assessed in relation to the status of the field.

(g) Acknowledgements

Journal of Neurochemistry requires that all authors disclose any potential sources of conflict of interest. Any interest or relationship, financial or otherwise, that might be perceived as influencing an author's objectivity is considered a potential source of conflict of interest. These must be disclosed when directly relevant or indirectly related to the work that the authors describe in their manuscript. Potential sources of conflict of interest include but are not limited to patent or stock ownership, membership of a company board of directors, membership of an advisory board or committee for a company, and consultancy for or receipt of speaker's fees from a company. The existence of a conflict of interest does not preclude publication in this journal. Any conflict of interest needs to be stated in the Acknowledgements section of the manuscript.

If the authors have no conflict of interest to declare, they must also state this in the Acknowledgements at submission.

It is the responsibility of the corresponding author to review this policy with all authors and to collectively list in the cover letter to the Editor-in-Chief, in the manuscript (under the Acknowledgment section), and in the online submission system ALL pertinent commercial and other relationships. For further information on what should be declared please also see the [BMJ declaration](#) and [corresponding BMJ editorial - Beyond conflict of interest](#) (BMJ 1998;**317**:291 - 2).

Authorship credit must be indicated in the Acknowledgements and should be based on

- substantial contributions to conception and design, acquisition, analysis or interpretation of data;
- drafting the article or revising it critically for important intellectual content; and
- final approval of the version to be published.

(h) References

In the text, cite references by names of authors and year of publication. In the **reference section**, references should be listed in **alphabetical order, except for papers by three or more authors**, which should be grouped in chronological order after any other papers by the first author. Names of all co-authors must be given followed by the year of publication, full title of the paper, name of the Journal (see below) and first and last page numbers. Examples:

Journal article: Semenova M. M., Maki-Hokkonen A. M., Cao J., Komarovski V., Forsberg K. M., Koistinaho M., Coffey E. T. and Courtney M. J. (2007) Rho mediates calcium-dependent activation of p38alpha and subsequent excitotoxic cell death. *Nat. Neurosci.* 10, 436-443.

Journal titles should be abbreviated in accordance with the List of Journals Indexed in Index Medicus (Superintendent of Documents, US Government Printing Office, Washington, DC 20402, USA, DHEW Publication No. 95-267).

Acta Neurol. Scand. Acta Physiol. Scand. Anal. Biochem. Arch. Biochem. Biophys. Biochem. J. Biochem. Pharmacol. Biochim. Biophys. Acta Biol. Chem. Hoppe Seyler Br. J. Pharmacol. Eur. J. Pharmacol. Experientia J. Biol. Chem. J. Cell Biol. J. Mol. Biol. J. Pharmacol. Exp. Ther. J. Physiol. (Lond.) Mol. Pharmacol. Nature Proc. Natl Acad. Sci. USA Proc. Soc. Exp. Biol. Med. Science

Book chapter: Feenstra M. G. P. (2000) Dopamine and noradrenaline release in the prefrontal cortex in relation to unconditioned and conditioned stress and reward, in *Progress in Brain Research*, (Uylings H. B. M., Van Eden C. G., De Bruin J. P. C., Feenstra M. G. P. and Pennartz C. M. A., eds), Vol. 126, pp. 133-163. Elsevier Science B. V., Amsterdam.

Book: Paxinos G. and Watson C. (1982) *The Rat Brain in Stereotaxic Coordinates*. Academic Press, San Diego.

Book in series: Di Chiara G. and Gessa G. L., eds (1981) *Advances in Biochemical Psychopharmacology*, Vol. 27: Glutamate as a Neurotransmitter. Raven Press, New York.

Unpublished experiments, papers in preparation, etc., may be mentioned only in the text; they must not be included in the list of References.

A paper that has been **accepted for publication** may be cited in the References with the abbreviated name of the Journal followed by the words, in press. The date of acceptance of each such paper should be indicated when the manuscript is submitted. If reference is made to papers in press (or submitted), such items must be uploaded online and labelled as 'supporting document, for information'.

Personal communications may be used only when written authorization from the communicator is submitted with the original manuscript; they may be mentioned only in the text, giving name of communicator.

3. Supporting information

Supporting information is peer-reviewed material directly relevant to the conclusions of an article that cannot be included in the published version owing to space or format constraints. It is posted on JNC's web site and linked to the article when the article is published and may consist of additional text, figures, tables, multimedia files or datasets. The published article must be complete and self-explanatory without the supplementary information. **Supporting information should enhance**, but not be essential to, a reader's **understanding** of the paper. Supporting Information should be cited within the article text, and a descriptive legend should be included. It is published as supplied by the author, and a proof is not made available prior to publication; for these reasons, authors should provide any Supporting Information in the desired final format.

For further information on recommended file types and requirements for submission, please visit: <http://authorservices.wiley.com/bauthor/supinfo.asp>

Wherever possible authors should ensure that multiple instances and formats of supporting information (tables, figures and appendices) are contained within **one, single submitted document** (PDF file wherever possible). Supporting information such as **video clips** can be made available in the online Journal, and can be submitted online with RTF manuscripts [complete instructions can be found in the author center of the journal's [ScholarOne](#) site and [here](#)].

4. Figures and Tables

Figures and Tables should be constructed so that they, together with their captions and legends, will be **intelligible with minimal reference to the text**. Use the table function of a word processor rather than tabs and spaces.

Only in exceptional cases may the same data be published in a Table and a Figure.

Figures and figure legends

(a) Each Figure must be accompanied by an explanatory but concise **legend** listed at the end of the manuscript before the figures. Authors should explain all symbols used in the figure sheet for each legend. Follow the instructions for submitting figures with RTF manuscripts. Tags should be inserted to

indicate where each figure is to be placed in the manuscript. Color artwork in JNC is published free of charge to the author, both online and in print.

(b) The Publisher guarantees to reproduce **electron micrographs** to the satisfaction of the author. Figures should normally be about twice the final size; in no case should the dimensions exceed 20 x 30 cm. All lettering should be large enough to be legible when reduced to single-column size. Authors are requested to use **scale bars on micrographs**.

(c) Data may be presented in **bar graphs** where appropriate. However, three-dimensional presentation is acceptable only for data with three variants.

(d) Figures must be planned so as to **avoid wasted white space**. It is not necessary for the scale on a coordinate to start at 0.

(e) When a manuscript has been accepted or when a revision is requested, you will be asked to upload **high-resolution figures** to ScholarOne Manuscripts. It is encouraged to upload text and figures in the final requested format also for initial submission. Vector graphics (e.g. line artwork) may be uploaded in Encapsulated Postscript Format (EPS), PDF, or Tagged Image File Format (TIFF) with at least 300 dpi resolution at appropriate size. Vector graphics in metafile (.WMF) or pict (.PCT) format should be embedded within the body of the text file. At this stage, the corresponding author should submit documentation or explanation of any image enhancement used. The editors reserve the right to request submission of original unprocessed data from authors should questions arise about the appropriateness of any image enhancement. Authors are encouraged to suggest images that might be used on the **journal cover**.

Tables

(f) Each table should be on a **separate page**. Reference to footnotes should be made with superscript lowercase letters.

(g) Each column of a Table should carry an **appropriate heading**.

(h) The **units of measurement** must be indicated clearly in the column headings of a Table or the coordinates of a Figure. If the unit of measurement is the same for all the data in a Table, it may be given in the caption or in a line to be printed immediately below the Table.

5. Copyright Transfer Agreement Form

Authors are required to sign an Copyright Transfer Agreement (CTA) for all papers accepted for publication. Authors will be required to assign copyright to the International Society of Neurochemistry (ISN). Copyright assignment is a condition of publication and papers will not be passed to the publisher for production unless copyright has been assigned (Government employees in both the US and the UK need to complete the Author Warranty sections, although copyright in such cases does not need to be assigned). After submission authors will retain the right to publish their paper in various medium/circumstances (please see the form for further details). To assist authors an appropriate form will be supplied by the editorial office. Alternatively, authors may like to download a copy of the form [here](#).

III. MISCELLANEOUS

1. Footnotes

Footnotes to the text **should be used sparingly**, should be indicated by superscript numbers, and typed with corresponding numbers on a separate sheet.

2. Drug names

Drug names should be the **official or approved names**; trade names or common names may be given in brackets where the drug is first mentioned.

3. Enzymes

The IUB Enzyme Commission (EC) number must be quoted with the **full name of the enzyme** when it is first mentioned in the text. Subsequently, the accepted trivial name shall be used, e.g. full name: Acetyl-CoA, choline O-acetyltransferase (EC 2.3.1.6), trivial name: choline acetyltransferase not choline acetylase. For this information the author should refer to *Enzyme Nomenclature* (1992), Academic Press, San Diego and London. (Units of enzyme activity should be defined in terms of the rate of the reaction catalyzed under specified conditions.) The official *Système Internationale* (SI) unit is the katal, i.e. mol of substrate transformed (or product formed)/s. However, it may be expressed in other terms, provided clear definitions are given, e.g. $\mu\text{mol/s}$ or $\mu\text{mol/min}$.

4. Solutions

Although SI recommends concentrations to be expressed as mol/L rather than M and that % (wt/vol) and % (vol/vol) should be given as g/L and mL/L, respectively, the use of M, % (wt/vol), and % (vol/vol) will be allowed. N is not permitted. Fractional concentrations should be expressed in decimal form.

5. Centrifugation

Centrifugation conditions should be expressed in terms of **g** and time; not in revolutions per minute.

6. Abbreviations and Symbols

(a) The use of abbreviations should be restricted to the **Système Internationale (SI) units**, see *Biochem. J.* (1978) **169**, 1-27, and a minimum of other generally accepted terms [see (b)]. Excessive use of abbreviations in the text is discouraged.

(b) The following abbreviations may be used without definition.

ADP, CDP, GDP, IDP, UDP, 5(pyro)-diphosphates of adenosine, cytidine, guanosine, inosine, and uridine
AMP, etc.-5-phosphates of adenosine, etc. ANOVA, analysis of variance ATP, etc.-5` (pyro)-triphosphates
of adenosine, etc. ATPase, adenosine triphosphatase bp, base pair Ci, curie CoA and acyl-CoA-coenzyme
A and its acyl derivatives (e.g., acetyl-CoA) cpm, counts per minute CNS, central nervous system CSF,
cerebrospinal fluid Cyclic AMP, 3,5-cyclic adenosine monophosphate Cyclic GMP-3,5-cyclic guanosine
monophosphate DNA, deoxyribonucleic acid DNase, deoxyribonuclease DOPA, 3,4-

dihydroxyphenylalanine dpm, dps-disintegrations per minute, disintegrations per second EDTA, ethylene-diaminetetraacetate EEG, electroencephalogram EGTA, ethyleneglycol bis(aminoethylether)tetraacetate ELISA, enzyme-linked immunosorbent assay FAD, FADH₂, flavin-adenine dinucleotide and its reduced form FMN, flavin mononucleotide g, average gravity GABA, gamma-aminobutyric acid (not Gaba) GLC, gas-liquid chromatography GSSG, GSH, glutathione, oxidized and reduced forms h, hour HEPES, N-2-hydroxyethylpiperazine-N-2-ethanesulfonic acid HPLC, high performance liquid chromatography Ig, immunoglobulin IR, infrared kb, kilobase kDa, kilodalton μ m, micron min, minute MPP⁺, 1-methyl-4-phenylpyridinium MPTP, 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine NAD⁺, NADH-oxidized and reduced forms of nicotin-amide-adenine dinucleotide NADP⁺, NADPH-oxidized and reduced forms of nicotin-amide-adenine dinucleotide phosphate NAD, NADP may be used when the oxidation state need not be indicated NMDA, N-methyl-D-aspartate NMN, nicotinamide mononucleotide NMR, nuclear magnetic resonance PCR, polymerase chain reaction Pi, orthophosphate (inorganic) PNS, peripheral nervous system P_i, pyrophosphate (inorganic) rpm, revolutions per minute RNA, ribonucleic acid RNase, ribonuclease RT, reverse transcription s, second SEM, standard error of mean SD, standard deviation TLC, thin-layer chromatography Tris, 2-amino-2-hydroxymethylpropane-1,3-diol UV, ultraviolet

(c) Other abbreviations may be used sparingly and defined in a footnote on the title page, as well as at their first mention in text. Recommended forms of abbreviation to be used with definition are as follows:

ACh, acetylcholine AChE, acetylcholinesterase AMPA, alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate ChAT, choline acetyltransferase COMT, catechol-O-methyltransferase DA, 3,4-dihydroxyphenylethylamine or dopamine 5-HT, 5-hydroxytryptamine or serotonin MAO, monoamine oxidase NA, noradrenaline, norepinephrine NeuNAc, N-acetylneuraminic acid (not NANA)

(d) Abbreviations should not be used in titles and running titles.

7. Nomenclature

Authors should follow the nomenclature recommended by the International Union of Basic and Clinical Pharmacology (IUPHAR) and the IUPAC-IUB Joint Commission on Biochemical Nomenclature. For references to these rules see *Biochemical Nomenclature and Related Documents* 2nd edit. (1992), available from Portland Press Ltd., 59 Portland Place, London W1N 3AJ, UK or Portland Press Inc., PO Box 2191, Chapel Hill, NC 27515-2191, USA.

8. Protein Sequences

Protein sequences, which have been determined by direct sequencing of the protein, must be submitted to SWISS-PROT at the EMBL Outstation - The European Bioinformatics Institute. Please note that we do not provide accession numbers, IN ADVANCE, for protein sequences that are the result of translation of nucleic acid sequences. These translations will automatically be forwarded to us from the EMBL nucleotide database and are assigned SWISS-PROT accession numbers on incorporation into TrEMBL.

Results from characterization experiments should also be submitted to SWISS-PROT at the EBI. This can include such information as function, subcellular location, subunit etc.

Contact information: SWISS-PROT Submissions, European Bioinformatics Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK. Tel: +44 (0)1223 494400; Fax: +44 (0)1223

494472. Email: datasubs@ebi.ac.uk (for sequence admissions) update@ebi.ac.uk (for characterization information) Website: www.ebi.ac.uk

IV. REVISIONS

Authors should provide a **point-by-point reply** with specific reference to the comments of editors and referees, **indicating all changes** introduced to the revision. The revised manuscript should **clearly show changes** (highlighted/marked up version). When submitting a REVISED manuscript, a form is provided online with boxes for comments to the Editor and for referees. These comments **MUST** be submitted **BEFORE** the revised manuscript is uploaded [instructions are provided on the online submission site ScholarOne <http://mc.manuscriptcentral.com/jneurochem>].

When submitting a revision, please **upload separately the text of the manuscript and the figures**. Please save vector graphics (e.g. line artwork) in Encapsulated Postscript Format (EPS), and bitmap files (e.g. halftones) in Tagged Image File Format (TIFF). Ideally vector graphics that have been saved in metafile (.WMF) or pict (.PCT) format should be embedded within the body of the text file. See http://authorservices.wiley.com/submit_illust.asp for detailed information on our digital illustration standards.

V. ACCEPTANCE

1. OnlineOpen / Open Access

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