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DESCRIPTION

Metabolism promotes excellence in research by publishing high-quality original research papers, fast-tracking cutting-edge papers, brief reports, reviews, mini-reviews and meta-analyses, as well as editorials and commentaries related to all aspects of human metabolism. Work considered for publication in Metabolism includes studies in humans, animal and cellular models. Work with strong translational potential is prioritized. Metabolism will consider papers for publication in any aspect of basic, translational and clinical metabolic research, including, but not limited to:

Energy Expenditure and Obesity Metabolic Syndrome and Diabetes Nutrition, Exercise, and the Environment Genetics, Proteomics, and Metabolomics Carbohydrate, Lipid, and Protein Metabolism Endocrinology and Hypertension Mineral and Bone Metabolism Cardiovascular Diseases and Malignancies Inflammation in metabolism and immunometabolism

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ABSTRACTING AND INDEXING

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Editorial Office
GUIDE FOR AUTHORS

AIMS AND SCOPE
Metabolism promotes excellence in research by publishing high-quality original research papers, fast-tracking cutting-edge papers, brief reports, reviews, mini-reviews and meta-analyses, as well as editorials and commentaries related to all aspects of human metabolism. Work considered for publication in Metabolism includes studies in humans, animal and cellular models. Work with strong translational potential is prioritized. Metabolism will consider papers for publication in any aspect of basic, translational and clinical metabolic research, including, but not limited to: Energy Expenditure and Obesity Metabolic Syndrome and Diabetes Nutrition, Exercise, and the Environment Genetics, Proteomics, and Metabolomics Carbohydrate, Lipid, and Protein Metabolism Endocrinology and Hypertension Mineral and Bone Metabolism Cardiovascular Diseases and Malignancies Inflammation in metabolism and immunometabolism

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The recommended reporting guidelines per article type are presented below. If the authors select to follow other reporting guidelines, they should take care to be appropriate for the article type they submit with.

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"STROBE-MR" for Mendelian randomization studies
"STROBE" for Observational studies
"ARRIVE" for preclinical animal studies
"PRISMA" for Systematic reviews and meta-analyses of randomized controlled trials
"MOOSE" for Systematic reviews and meta-analyses of observational studies
"AGREE" for Clinical practice guidelines
"STARD" for diagnostic accuracy studies
"CARE" for case reports

Submission of the reporting guidelines checklists are not required for editorials, commentaries, narrative reviews, narrative min-reviews and letters to the Editor.

For further information about reporting guidelines, authors should visit the EQUATOR Network website, where an updated list of guidelines with links to articles and checklists is maintained.

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Original Research Papers describe original research findings. They should be no longer than 5000 words, excluding the title page, abstract, references, tables, and figure legends, but including the abbreviation list, acknowledgements, funding, disclosure statement, and author contributions. They should contain no more than 10 tables and figures combined and no more than 60 references. Their final accepted version should, in general, not exceed 8 printed journal pages; additional information may be included as a supplementary appendix, to be published online. There is a special interest on randomized controlled trials. Preregistration of randomized controlled trials in a database of clinical trials is a prerequisite for the submission.

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Fast track publication is offered for concise studies of great novelty and broad interest to the readers of Metabolism. These manuscripts describe original research findings of exceptional novelty and importance, usually in a rapidly growing and competitive field. Submissions for Fast track publications will be peer-reviewed within 3 days of submission, after initial evaluation by the Editors and authors will be given up to 4 weeks for revisions; should these papers be accepted, articles will be published online within 4 weeks from acceptance and will appear in print in the next available issue of the journal. The quality of fast track publication must fall within the top 5 percent of all articles published...
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These manuscripts describe limited but novel, focused and straightforward original research findings. Preliminary data, pilot studies, case reports, case series, or studies with small sample sizes do not usually qualify, unless they are of exceptional quality, utilize novel methodologies, or report findings that can form the basis of future, more definitive studies and/or are of great interest to the journal's readership. They should be no longer than 1500 words, excluding the title page, abstract, references, tables, and figure legends, but including the abbreviation list, acknowledgements, funding, disclosure statement, and author contributions. They should contain no more than 2 tables and figures combined and no more than 20 references. Their final accepted version should, in general, not exceed 3 printed journal pages; no additional information may be included. Other than the length, the requirements and review process are the same as for original research papers.

Methods Papers
These manuscripts describe the development of novel methodologies in the field of metabolic research, including significant refinements of well-established techniques. They should be concise but detailed enough so that the method can be readily reproduced. Methodologies utilizing proprietary, non-commercially available tools (whether by the authors themselves or an independent vendor) will not be considered. The requirements and review process are the same as for original research articles.

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There is a special interest on meta-analyses. These articles systematically find, select, critique, and synthesize evidence relevant to well-defined questions in metabolic research. Meta-analyses of randomized controlled trials should follow PRISMA reporting guidelines, whereas those of observational studies should follow MOOSE reporting guidelines. A relevant checklist should be uploaded as a supplementary appendix (please, see on equator network for the relevant checklist). The requirements and review process are the same as for original research articles. Additional information (including references to disqualified papers and study summary tables) should be included as a supplementary appendix, to be published online.

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Reviews should be a maximum of 5000 words, excluding the title page, abstract, references, tables, and figure legends, but including the abbreviation list, acknowledgements, funding, disclosure statement, and author contributions. Subheadings in the text are recommended to highlight the content of different sections. An unstructured summary of no more than 200 words is required. Reviews should contain no more than 10 tables and figures combined and no more than 150 references. Reviews are generally commissioned by the Editors but unsolicited articles will be considered.

Mini-reviews
Mini-Reviews should be a maximum of 3500 words, excluding the title page, abstract, references, tables, and figure legends, but including the abbreviation list, acknowledgements, funding, disclosure statement, and author contributions. Subheadings in the text are recommended to highlight the content of different sections. An unstructured summary of no more than 200 words is required. Reviews should contain no more than 6 tables and figures combined and no more than 100 references.

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These articles are usually but not necessarily solicited by the journal editors and concisely address a timely or controversial issue of importance to the journal's readership, usually in response to work that has been published in the journal (typically, they are published in the same issue). They should be unstructured (without headings) and should be no longer than 1500 words, excluding the title page, references, tables, and figure legends, but including the abbreviation list, acknowledgements, funding, and disclosure statement (if applicable); no abstract or author contributions are required. They should contain no more than 2 tables and figures combined and no more than 50 references. Their final
accepted version should, in general, not exceed 2 printed journal pages; no additional information may be included. These articles are not pre-screened and are usually reviewed by members of the editorial board.

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These articles are written by the journal editors or by invited authors. The requirements and review process are the same as for commentaries, although the scope of the articles may be more liberal.

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We welcome work reporting novel findings from high-quality clinical trials, intervention studies, Mendelian randomization studies, or large prospective cohort studies with replication in an independent cohort or using another study design (e.g., Mendelian randomization or intervention). We also welcome meta-analyses of clinical trials, intervention studies, and cohort studies. Work with strong translational potential is prioritized. The requirements and review process are the same as for original research articles.

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Metabolism publishes several categories of articles; all submissions must conform to the journal’s reporting and style requirements and must be written in standard scientific English language. New submissions, except for solicited articles (e.g., mini-reviews, commentaries), will be initially evaluated in depth by the editorial team that will decide on the overall quality of the work and its suitability for Metabolism. Manuscripts that do not conform to the general criteria for publication will be returned to the authors without detailed review, typically within 14 days. This will facilitate prompt notification of authors and will allow expedited resubmission of the authors’ work elsewhere. Otherwise, manuscripts will be sent for formal review immediately. The editorial board will make every effort to reach initial decision on these manuscripts within 4-6 weeks from the submission date. If revisions are a condition of publication, ~8 weeks will be provided to re-submit a revised version of the manuscript. Accepted manuscripts will generally be published no later than 4 months from acceptance. The journal does not require submission or publication charges.

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Reporting sex- and gender-based analyses

Reporting guidance
For research involving or pertaining to humans, animals or eukaryotic cells, investigators should integrate sex and gender-based analyses (SGBA) into their research design according to funder/sponsor requirements and best practices within a field. Authors should address the sex and/or gender dimensions of their research in their article. In cases where they cannot, they should discuss this as a limitation to their research's generalizability. Importantly, authors should explicitly state what definitions of sex and/or gender they are applying to enhance the precision, rigor and reproducibility of their research and to avoid ambiguity or conflation of terms and the constructs to which they refer (see Definitions section below). Authors can refer to the Sex and Gender Equity in Research (SAGER) guidelines and the SAGER guidelines checklist. These offer systematic approaches to the use and editorial review of sex and gender information in study design, data analysis, outcome reporting and research interpretation - however, please note there is no single, universally agreed-upon set of guidelines for defining sex and gender.

Definitions
Sex generally refers to a set of biological attributes that are associated with physical and physiological features (e.g., chromosomal genotype, hormonal levels, internal and external anatomy). A binary sex categorization (male/female) is usually designated at birth ("sex assigned at birth"), most often based solely on the visible external anatomy of a newborn. Gender generally refers to socially constructed roles, behaviors, and identities of women, men and gender-diverse people that occur in a historical and cultural context and may vary across societies and over time. Gender influences how people view themselves and each other, how they behave and interact and how power is distributed in society. Sex and gender are often incorrectly portrayed as binary (female/male or woman/man) and unchanging
whereas these constructs actually exist along a spectrum and include additional sex categorizations and gender identities such as people who are intersex/have differences of sex development (DSD) or identify as non-binary. Moreover, the terms "sex" and "gender" can be ambiguous—thus it is important for authors to define the manner in which they are used. In addition to this definition guidance and the SAGER guidelines, the resources on this page offer further insight around sex and gender in research studies.

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Authorship
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It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

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