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## Journal Policies

### Aims and Scope

*Exploration of BioMat-X*, a peer-reviewed open access online journal. The journal publishes papers of the highest quality and significance in all areas related to biomaterials. Since research in biomaterials filed is very multidisciplinary and cross-disciplinary, *Exploration of BioMat-X* will cover a variety of subjects related to biomaterials including bulk to nanoscale biomaterials, surface and biointerface development and characterization, fundamental to applied research, as well as the clinical translation of the research in these areas.

Authors are invited to submit their original manuscript of significance importance related to the following research topics:

- ★ Biocompatible polymers, bioceramics, metals and biocomposites
- ★ Cell-material interaction
- ★ Biological biomaterials in vitro, ex-vivo and in vivo
- ★ Biodegradable biomaterials
- ★ Bio-inspired biomaterials
- ★ Biocompatible surface and biointerfaces
- ★ Cell-material interaction
- ★ Gene silencing
- ★ Smart biomaterials
- ★ Nano(bio)materials
- ★ Nanotherapeutics
- ★ Wound dressing
- ★ Self-assembly of biomolecular materials
- ★ Gene/Drug delivery systems
- ★ Scaffolds
- ★ Tissue engineering

- ★ Hydrogels, microgels and nanogels
- ★ Nano and micro bioengineering
- ★ Immunoengineering
- ★ Molecular imaging
- ★ Single cell analysis
- ★ Characterization and application Biomaterials and biointerfaces
- ★ Regenerative medicine
- ★ Nanomedicine
- ★ Nanobiotechnology
- ★ Bioprocessing
- ★ Biomanufacturing
- ★ Biomedical Devices
- ★ Fiber biomaterials
- ★ 3D printing of Biomaterials
- ★ Implants
- ★ Artificial organs
- ★ Biomaterial and biointerface sensing and imaging
- ★ Disease modeling using biomaterials
- ★ Biomaterial related infection

More information is available at [Aims and Scope](#).

### Open Access

*Exploration of BioMat-X* is an open access journal and all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author.

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## Peer Review

The journal adopts a single-blind peer review model meaning that reviewers' identities are kept concealed from authors, but authors' identities are known to reviewers. All accepted articles (except for some Editorials released by the Editors) will have undergone a rigorous and thorough review process to evaluate their novelty, scientific content, academic integrity, etc. For more information on Peer Review, please refer to [Editorial Policies](#).

## Article Processing Charge

To attract high quality submissions and relieve the financial burden for researchers, there is currently no article processing charge or fees payable for article submission or publication.

## Archive

To ensure long-term digital preservation, all published articles will be archived on the [Portico](#) platform. Authors are also encouraged to deposit their articles in [PubMed Central/Europe PMC](#), and other appropriate archives. It is the authors' responsibility to ensure that any Institutional or funders requirements for archiving are met.

## Preprint Policy

The journal allows authors to post preprints of the Original Version, Accepted Manuscript, and Version of Record, on preprint servers, authors' or institutional websites, and open

communications between researchers whether on community preprint servers or preprint commenting platforms. Readers should visit [Sherpa Romeo](#) to view our preprint policy. For detailed information on our preprint policy, please refer to [Editorial Policies](#).

## Cover Letter

A cover letter is required to be submitted accompanying each manuscript. We suggest authors include the following contents in a cover letter:

- ★The title and type of the manuscript;
- ★A brief summary of the background and content of the work, and an explanation of why it warrants publication in the journal (e.g., novelty, importance etc);
- ★Whether the article should be considered as part of a Special Issue;
- ★A statement that this paper has not been submitted or published elsewhere;
- ★ A statement will be required if there are other cases need to be explained, for example, if the manuscript or part of it has been posted on preprints, conference, etc. Please find more cases at [Duplicate Publication](#) policy.

## Publication Ethics

### Research Ethics

For any study involving human subjects, authors should provide a statement to state that the study is approved by an institutional ethics. Written informed consent to participate should be obtained from all participants.

For manuscripts involving privacy issues (e.g., including individuals' details in images or videos), authors must obtain the consent to publication from the participants. Authors need to provide a statement to attest that they have obtained such consent.

Any research involving animals should be approved by an animal care and use committee and conducted according to the approved protocol and acceptable research standards for animal experimentation. An ethical statement should be included at the end of the manuscript stating that the study was approved by an animal care and use committee.

For details on how to prepare such statements, please refer to the Declarations part in [Structure of Manuscripts](#).

More specific information of Research Ethics can be found in the [Editorial Policies](#) of the journal.

## Registration of Clinical Trials

The journal requires that all clinical trials should be registered in a public trials registry ([WHO International Clinical Trials Registry Platform](#) (ICTRP) or in [ClinicalTrials.gov](#)) at or before the time of first patient enrollment. The trial registration number should be listed at the end of the Abstract. Secondary data analyses of primary (parent) clinical trials should not be registered as separate clinical trials, but instead should reference the trial registration number of the primary trial. Please refer to [Editorial Policies](#) for further information.

## Conflicts of Interest

Authors should provide a statement to disclose any potential or existing conflict of interest. The corresponding author must ensure that all authors have been asked to disclose any conflict of interest.

Manuscripts submitted by the editorial board members are handled separately by other editors, and the concerned editor is not involved in the decision-making or the review process.

All sources of funding should be declared, including the role of the study sponsor(s) in the study design; in the collection, analysis and interpretation of the data; in the writing of the report; and in the decision to submit the paper for publication.

Please refer to [Editorial Policies](#) for further information.

## Authorship

The journal endorses the authorship criteria defined by [ICMJE](#). Individuals who fulfill the following criteria can be defined as authors.

Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work; AND

Drafting the work or revising it critically for important intellectual content; AND

Final approval of the version to be published; AND

Agreement 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.

Author Contributions statement should be provided to specify the contribution of each author. The journal adopts the [CRediT Taxonomy](#) to describe each author's individual contributions to the work. More information is available at [Structure of Manuscripts](#).

Other individuals who have participated in the generation of the research paper but do not meet the criteria for authorship should be listed in the Acknowledgments section with a

brief description of their contributions. Minors who have been involved in a piece of research (for example, children using technology) are typically acknowledged as they cannot be fully accountable for all aspects of the research.

### **AI and AI-assisted Technologies in Scientific Writing**

For AI-assisted work, author(s) should not list AI and AI-assisted technologies as an author or co-author, nor cite AI as an author. AI and AI-assisted technologies cannot replace the tasks of researchers, such as developing scientific insights, analyzing and interpreting data, drawing scientific graphs, or drawing scientific conclusions. Author(s) should only use AI technologies to improve the readability and language.

Author(s) are ultimately responsible and accountable for the originality, accuracy, and integrity of the article, and should disclose the use of AI and AI-assisted technology in the writing process in the Declarations section at the end of the manuscript by following the instructions below:

AI-Assisted Work Statement: During the preparation of this work, author(s) used the [name tool/service] for [reason]. After using the tool/service, author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication.

This declaration does not apply to the use of basic tools for checking grammar, spelling, references etc. If there is nothing to disclose, there is no need to add a statement.

Note: A violation of this policy will be considered as scientific misconduct. The journal deals with any scientific misconduct on a case-by-case basis according to the guidance by [COPE](#), [WAME](#) and [ICMJE](#).

Please refer to [Editorial Policies](#) for further information.

### **Plagiarism**

Plagiarism is not acceptable and includes, but is not limited to, copying or reusing text, ideas, images or data from other sources without clear attribution, and goes against the principle of academic publishing. Reuse of parts of text from an author's previous research publication without clear attribution is a form of self-plagiarism.

The journal uses [iThenticate](#) to screen submitted content for originality before publication. Any issues detected by the software will be addressed by a follow-up investigation in line with [COPE Guidelines](#) and if plagiarism is detected the manuscript may be rejected, corrected or retracted, as appropriate. In some cases, the journal may inform the authors' institutions about the case. We expect that the editors and peer reviewers will inform the journal about any concerns related to plagiarism at any stage of peer-review, publication, or post-publication. We also encourage readers to report suspicious plagiarism after publication. For more information on plagiarism and how we handle it, please refer to [Editorial Policies](#).

## Duplicate Publication

The journal considers only original content meaning that articles must not have been previously published or submitted for publication, including in a language other than English. If related materials are under consideration or in press elsewhere, the authors should point this out in their cover letter.

If authors have used their own previously published work, or work that is currently under review, as the basis for a submitted manuscript, they must cite the previous articles and indicate how their submitted manuscript differs from their previous work. Reuse of the authors' own figures or substantial amounts of wording may require permission from the copyright holder and the authors are responsible for obtaining this.

Several exceptions do not constitute duplicate publication if justified and made clear in the cover letter. Please find such exceptions at [Editorial Policies](#).

If a manuscript is published and later found to be redundant, the editor should refer to the [COPE Flowcharts](#) and work with the publisher to retract the duplicate paper.

## Misconduct

The journal endorses the summary of misconduct provided by [WAME](#). Misconduct includes, but is not limited to: Falsification of data, Plagiarism, Improprieties of authorship, Misappropriation of the ideas of others, Violation of generally accepted research practices, Material failure to comply with legislative and regulatory requirements affecting research, Inappropriate behavior in relation to misconduct, Duplicate publication, Lack of declaration. The journal adopts [iThenticate](#) to detect possible plagiarism, which ensures the originality of submitted content. We encourage all reviewers to report potential misconduct of the manuscripts they reviewed. We also encourage all the readers to contact us to report potential misconduct related to published content. Open Exploration deals with all allegations of potential misconduct severely based on the [COPE Flowchart](#). Please refer to [Editorial Policies](#) for further information.

## Citation

Authors must cite relevant literature to support any statement that relies on external sources of information in their manuscripts. However, citation manipulation may exist when articles are found to contain references that do not contribute to the scholarly content of the article and have been included solely as a mechanism of increasing citations. Please refer to the COPE document to identify [Citation Manipulation](#) and legitimate self-citation. Citation manipulation will result in the article being rejected, and the journal may report the case to authors' institutions.

## Corrections and Retractions

Corrections will be published where honest errors are detected. Retraction will be published when seriously flawed or erroneous content or data are detected, such that the

findings and conclusions are unreliable. Unreliable content or data may result from honest error, naive mistakes, or research misconduct.

More guidelines about when and how to publish Corrections/Retractions, please refer to [Editorial Policies](#).

### Appeals and Complaints

Authors have the right to appeal editorial decisions or review reports during the editorial process. Please contact the editorial office at [ebmxjournal@explorationpub.com](mailto:ebmxjournal@explorationpub.com) to submit your appeals. Complaints on editorial process or publication ethics should be delivered to the editorial office, and will be handled by the Editor who responsible for the journal. If the editor is involved in your complaints, please contact the publisher at [info@explorationpub.com](mailto:info@explorationpub.com). For complaints about publication ethics, we will follow guidelines published by [COPE](#).

## Types and Templates of Manuscripts

The journal publishes Original Article, Review, Systematic Review, Meta-Analysis, Short Communication, Protocol, Commentary, Perspective, Editorial, and Letter to the Editor.

Read more details about manuscript types and the specific requirements of each type in the following table.

If you have an article that requires more words/tables/figures/references than the recommendation below, please contact the editors at [ebmxjournal@explorationpub.com](mailto:ebmxjournal@explorationpub.com) before submission.

Article Type	Definition	Abstract	Keywords	Main Text	Word Count (main text)	Table/Figure Number	Reference Number	Note
Original Article <a href="#">Template</a>	An original article should report scientifically sound experiments from original research, providing novel concepts and information in certain areas. The original article must describe significant and original observations.	Structured abstract including Aim, Methods, Results, and Conclusions. ≤ 300 words	3-8	Structured main text including Introduction, Materials and Methods, Results, and Discussion.	N/A	N/A	N/A	

<p>Review</p> <p><a href="#">Template</a></p>	<p>A review should describe an overview of recent progress in important fields of research, providing an appreciation of the significance of the work, and an outlook into potential future directions.</p>	<p>Unstructured abstract. ≤ 300 words</p>	<p>3-8</p>	<p>Structured main text with unfixed section titles. An “Introduction” section at the beginning, several sections with unfixed titles in the middle part, and a “Conclusions” section at the end would be preferred.</p>	<p>≥ 3000 words</p>	<p>≥ 3</p>	<p>N/A</p>	<p>If your review is a concise summary of a specific relevant research topic or field, of 3000 words or less, please submit it as a Mini-review.</p>
<p>Systematic Review</p> <p><a href="#">Template</a></p>	<p>A systematic review should present a detailed investigation of previous research on a given topic that uses clearly defined search parameters and methods to identify, categorize, analyze, and report aggregated evidence on a specific topic.</p>	<p>Structured abstract including Background, Methods, Results, and Discussion. ≤ 300 words</p>	<p>3-8</p>	<p>Structured main text including Introduction, Materials and methods, Results, and Discussion.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>It is strongly encouraged to follow the <a href="#">PRISMA</a> to improve the reporting of a systematic review and provide the PRISMA flow diagram as part of the main text or Supplementary Materials.</p>
<p>Meta-Analysis</p> <p><a href="#">Template</a></p>	<p>A meta-analysis should involve a comprehensive and exhaustive review of relevant literature specific to a topic or research question, and it should employ statistical methods to</p>	<p>Structured abstract including Background, Methods, Results, and Discussion. ≤ 300 words</p>	<p>3-8</p>	<p>Structured main text including Introduction, Materials and methods, Results, and</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>It is strongly encouraged to follow the <a href="#">PRISMA</a> to improve the reporting of a meta-analysis and provide the PRISMA flow diagram</p>

	quantitatively synthesize the results of pooled studies.			Discussion.				as part of the main text or Supplementary Materials.
Short Communication <a href="#">Template</a>	A short communication should present groundbreaking preliminary results, a particular aspect of a problem, or a new finding that is expected to have a significant impact. The short communication should be more straightforward and concise.	Unstructured abstract. ≤ 200 words	3-8	N/A	≤ 2000 words	≤ 6	≤ 30	
Protocol <a href="#">Template</a>	A protocol should provide a detailed step-by-step description of a method. It should be proven to be robust and reproducible. The protocol should report planned or ongoing research studies.	Unstructured abstract. ≤ 300 words	3-8	Structured main text including Introduction, Materials, Procedure, and Expected results.	N/A	N/A	N/A	
Commentary <a href="#">Template</a>	Commentary articles are opinions and analyses on issues of interest to readers, discussing recently published or forthcoming articles or experiments, and addressing specific issues within a subject area rather than the field as a whole.	Unstructured abstract (optional). ≤ 250 words	3-8 (optional)	N/A	≤ 3000 words	≤ 3	≤ 30	Usually commissioned by the Journal, but the editors also welcome presubmission inquiries proposing topics.
Perspective <a href="#">Template</a>	Perspective articles should highlight important ideas from	Unstructured abstract. ≤ 250 words	3-8	N/A	≤ 3000 words	≤ 3	≤ 30	Long perspectives should be no more than

recent exciting research and emerging topics of general interest, provide a focused (rather than comprehensive) overview, to propose and support new hypotheses, or to discuss the implications of newly implemented innovations, and may include raw data and personal opinions.

6000 words.

Editorial <a href="#">Template</a>	Editorial articles are compelling opinions on topics of broad interest and can be considered as the journal's voice, publishing articles such as inaugural articles/annual summaries/thematic introductions/introductions to new journals/concluding a special issue/reporting on a pressing topic, etc., and do not contain unpublished or original data.	Not required.	Not required.	N/A	$\leq 1000$ words	N/A	N/A	The Editorial article is only written by the Editorial Board and Guest Editors.
Letter to the Editor <a href="#">Template</a>	Letter to the Editor is a substantive reanalysis of an article published in our journal, a short report related to the content of previous issues.	Unstructured abstract (optional). $\leq 250$ words	3-8 (optional)	N/A	$\leq 1000$ words	$\leq 3$	$\leq 10$	Usually commissioned by the Journal, but the editors also welcome presubmission inquiries proposing topics.

[updated on March 1, 2024]

## Structure of Manuscripts

The structure varies according to the type of manuscript. Please refer to requirements in [Types and Templates of Manuscripts](#).

### Title

The title should be no more than 20 words, no more than 150 characters in total, including spaces.

The title should be specific and relevant, and provide an overall view of the paper's significance rather than detailed contents.

The title should avoid use of jargon, uncommon abbreviations, and excessive punctuation.

### Author and Affiliations

Authors' forename and surname should be listed. The initials of middle names can be added.

The complete address information should be listed as the following format: Dept/Program/Center, Institution, City, State, Post Code, Country; E-mail Address.

One author should be designated as the corresponding author.

Authors are strongly encouraged to provide their ORCID if any, especially the corresponding author.

Dual first/last authorship is allowed. Authors should indicate dual authorship with a superscript “<sup>†</sup>”, like “Forename Surname<sup>1†</sup>, Forename Surname<sup>2†</sup>”.

Please check authors' names carefully, as any change to authorship is not allowed after manuscript acceptance.

Check out more information about Authorship at [Editorial Policies](#).

### Abstract and Keywords

#### *Abstract*

This section usually describes the main objective(s) of the study, explains how the study was done, and the main findings.

The abstract should follow the specific requirements for word count and structure detailed in [Types and Templates of Manuscripts](#).

Acronyms and abbreviations must be defined the first time they appear in the abstract. Abbreviations should only be used if the abbreviated term appears three or more times in the abstract (except commonly-used ones).

The abstract should not include any citation or footnote.

The registration number of clinical trials should be listed at the end of the abstract if appropriate.

### *Keywords*

Three to eight keywords should be provided where required (see [Types and Templates of Manuscripts](#)).

Keywords should be closely related to the topic of the paper, but not too broad or specific to the field.

Non-standard abbreviations should be kept to a minimum.

### **Main Body**

The main text may consist of distinct sections according to the category of manuscript. For instance, an Original Article should comprise: Introduction, Materials and Methods, Results and Discussion, whereas in a Review, the main text may comprise several sections with unfixed section titles.

Templates are provided in the [Types and Templates of Manuscripts](#) to guide authors.

### *Introduction*

Good introductions explain these points clearly and cohesively:

- ★ Relevant background that puts the study into context (a brief review of key literature);
- ★ Purpose of the work and its significance.

### *Materials and Methods*

Materials and Methods should be sufficiently detailed so that they can be understood precisely by readers and reviewers, and to enable other researchers to fully replicate the study. This section should include:

- ★ Design and setting of the study;
- ★ Characteristics of participants or description of materials;
- ★ Clear description of all processes, interventions and comparisons;
- ★ Type of statistical analysis used, including a power calculation if appropriate.

Please make sure you are aware that:

- ★ Statistical terms, abbreviations, and all symbols used should be defined clearly;
- ★ Generic drug names should generally be used;
- ★ When proprietary brands are used in research, include the brand names in parentheses;
- ★ All clinical trials must be registered in a public trials registry at or before the time of first patient enrollment and the registration number must be listed at the end of the abstract;
- ★ Protocol documents for clinical trials, observational studies, and other non-laboratory investigations may be uploaded as supplementary materials.

More detailed information about clinical trials, please refer to [Editorial Policies](#).

### *Results*

Results should be presented in a logical order to support the main conclusions of the study.

Results of statistical analysis should be included either as text or as tables or figures if appropriate.

Do not repeat data already shown in figures and tables, in text sections. Authors should emphasize and summarize only the most important observations.

Data on all primary and secondary outcomes identified in the section Materials and Methods should also be provided.

Extra or supplementary materials and technical details can be placed in supplementary documents.

### *Discussion*

This section should cover the key findings of the work.

Discussion should point out the potential short-comings and limitations on their interpretations.

Future research directions may also be mentioned.

## Abbreviations

In general, terms should not be abbreviated unless they are used repeatedly (at least 3 times) and the abbreviation is helpful to the reader. Using of abbreviations should meet the following requirements:

- ★ Commonly-used abbreviations, such as DNA, RNA, ATP, etc., can be used directly without definition;
- ★ Non-standard abbreviations should be defined at first use in manuscripts with their abbreviations in parentheses;
- ★ Non-standard abbreviations should be avoided in titles, abstracts and keywords;
- ★ Non-standard abbreviations in tables and figures should be explained in the footnote or caption accordingly.

This section should list and define all non-standard abbreviations.

For example, FBS: fetal bovine serum HGF: hepatocyte growth factor.

## Declarations

### *Acknowledgments (Optional)*

Acknowledge anyone who is not an author, but contributed to the paper, including intellectual assistance, technical help (writing services), or special equipment or materials.

### *Author Contributions*

The contributions of each author should be described. The journal adopts the [CRediT Taxonomy](#) to describe each author's individual contributions to the work. The corresponding author(s) is responsible for providing the contributions of all authors at submission. We expect that all authors will have reviewed, discussed, and agreed to their individual contributions ahead of this time. Contributions will be published with the final article, and they should accurately reflect contributions to the work. The roles are not intended to define what constitutes authorship.

Use initials of Forename and Surname when mentioning an author in this section. If the initials are the same, spell the different forename or surname. For example, John A. Smith: JA Smith, John A. Smart: JA Smart; John A. Smith: John AS, James A. Smith: James AS.

An example of an Authors' Contribution statement using CRediT with degree of contribution:

“AB: Conceptualization, Investigation, Writing-original draft, Writing-review & editing. CDE: Conceptualization, Investigation, Writing-original draft, Writing-review & editing. FG: Validation, Writing-review & editing, Supervision. All authors read and approved the submitted version.”

<b>Contributor Role</b>	<b>Role Definition</b>
Conceptualization	Ideas; formulation or evolution of overarching research goals and aims.
Data Curation	Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later reuse.
Formal Analysis	Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data.
Funding Acquisition	Acquisition of the financial support for the project leading to this publication.
Investigation	Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.
Methodology	Development or design of methodology; creation of models.
Project Administration	Management and coordination responsibility for the research activity planning and execution.
Resources	Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.
Software	Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.
Supervision	Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.
Validation	Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.
Visualization	Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.
Writing – Original Draft	Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).
Writing – Review & Editing	Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.

### *Conflicts of Interest*

Authors must declare any personal, professional or financial relationships which could potentially be construed as a conflict of interest. If authors are unsure whether conflicts of interest exist, please refer to Conflicts of Interest in [Editorial Policies](#).

If there are no conflict of interest, authors should state “The authors declare that they have no conflicts of interest.”

### *Ethical Approval*

Manuscripts involving human research must be approved by the specific ethics committee or comply with the [Declaration of Helsinki](#). Authors should state that the article has obtained the consent from the participants and detail the information of ethics committee, including the name and the reference number if any.

Manuscripts involving animals research must be approved by an animal care and use committee. Authors should state that the article has been approved by certain committee and detail its information.

If a manuscript does not involve such issues, please state “Not applicable.” in this section.

More information is available at [Editorial Policies](#).

### *Consent to Participate*

The informed consent to participate in the study should be obtained from the participants, or their parents or legal guardians for children under 16. Such documents do not require a submission, but they must be available if requested. Authors should state “Informed consent to participate in the study was obtained from all participants.”.

If a manuscript does not involve such issue, please state “Not applicable.” in this section.

### *Consent to Publication*

Authors must obtain the consent for publication from the participants in cases where manuscripts involve the privacy issues, like showing an individual’s details (images or videos). Such documents are not required at submission, but they must be available if requested. Authors should state “Informed consent to publication was obtained from relevant participants.”.

If a manuscript does not involve such issue, please state “Not applicable.” in this section.

### *Availability of Data and Materials*

Authors are encouraged to provide details on how to access data sets supporting their findings where appropriate, such as links to publicly archived datasets.

Examples of appropriate public repositories are included as suggestions.

DNA/RNA Sequence: [Genbank](#), [Genome](#), [BankIt](#), [Sequence Read Archive \(SRA\)](#), [European Nucleotide Archive \(ENA\)](#), [DNA DataBank of Japan \(DDBJ\)](#).

Protein Sequence: [Uniprot Knowledgebase \(UniprotKB\)](#).

Genetic polymorphisms: [dbSNP](#), [the Database of Genomic Variants Archive \(DGVa\)](#), or the [Database of Genomic Structural Variation \(dbVAR\)](#).

Sequencing Data/Microarray Data: [NCBI Gene Expression Omnibus \(GEO\)](#) or [ArrayExpress](#).

Structures of Macromolecules: [Worldwide Protein Data Bank](#), [Protein Data Bank in Europe](#), [EMDataBank](#).

Structures of Small Molecules: [Cambridge Structural Database \(CSD\)](#), [PubChem](#).

Examples for how to write this statement:

★ Datasets are in a publicly accessible repository:

The datasets [GENERATED/ANALYZED] for this study can be found in the [NAME OF REPOSITORY] [LINK].

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The raw data supporting the conclusions of this manuscript will be made available by the authors, without undue reservation, to any qualified researcher.

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The datasets for this manuscript are not publicly available because: [VALID REASON]. Requests for accessing the datasets should be directed to [NAME, EMAIL].

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Not applicable.

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References should be listed in the order in which they appear in the text. The reference number should be in square brackets in the text.

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## References List

List the first six authors, followed by et al.

Abbreviations of journals should be provided on the basis of [Index Medicus](#).

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Source	Example
Standard journal article	Rose ME, Huerbin MB, Melick J, Marion DW, Palmer AM, Schiding JK, et al. Regulation of interstitial excitatory amino acid concentrations after cortical contusion injury. <i>Brain Res.</i> 2002;935:40-6.  Halpern SD, Ubel PA, Caplan AL. Solid-organ transplantation in HIV-infected patients. <i>N Engl J Med.</i> 2002;347:284-7.
Organization as author	Diabetes Prevention Program Research Group. Hypertension, insulin, and proinsulin in participants with impaired glucose tolerance. <i>Hypertension.</i> 2002;40:679-86.
Both personal authors and organization as author	Vallancien G, Emberton M, Harving N, van Moorselaar RJ; Alf-One Study Group. Sexual dysfunction in 1,274 European men suffering from lower urinary tract symptoms. <i>J Urol.</i> 2003;169:2257-61.
Article not in English	Ellingsen AE, Wilhelmsen I. Sykdomsangst blant medisiner- og jusstudenter. <i>Tidsskr Nor Laegeforen.</i> 2002;122:785-7. Norwegian.
Volume with supplement	Geraud G, Spierings EL, Keywood C. Tolerability and safety of frovatriptan with short- and long-term use for treatment of migraine and in comparison with sumatriptan. <i>Headache.</i> 2002;42 Suppl 2:S93-9.
Article published electronically ahead of the print version	Yu WM, Hawley TS, Hawley RG, Qu CK. Immortalization of yolk sac-derived precursor cells. <i>Blood.</i> 2002;[Epub ahead of print].
Forthcoming	2017 Feb 9]; [11 p.]. Available from: <a href="https://arxiv.org/abs/1702.01006">https://arxiv.org/abs/1702.01006</a>
Books	Murray PR, Rosenthal KS, Kobayashi GS, Pfaffler MA. <i>Medical microbiology.</i> 4th ed. St. Louis: Mosby; 2002.  Gilstrap LC 3rd, Cunningham FG, VanDorsten JP, editors. <i>Operative obstetrics.</i> 2nd ed. New York: McGraw-Hill; 2002.  Breedlove GK, Schorfheide AM. <i>Adolescent pregnancy.</i> 2nd ed. Wicczorek RR, editor. White Plains (NY): March of Dimes Education Services; 2001.

Chapter in a book	Meltzer PS, Kallioniemi A, Trent JM. Chromosome alterations in human solid tumors. In: Vogelstein B, Kinzler KW, editors. The genetic basis of human cancer. New York: McGraw-Hill; 2002. p. 93-113.
Conference paper	Christensen S, Oppacher F. An analysis of Koza's computational effort statistic for genetic programming. In: Foster JA, Lutton E, Miller J, Ryan C, Tettamanzi AG, editors. Genetic programming. EuroGP 2002: Proceedings of the 5th European Conference on Genetic Programming; 2002 Apr 3- 5; Kinsdale, Ireland. Berlin: Springer; 2002. pp. 182-91.
Homepage/Web site	eatright.org [Internet]. Chicago: Academy of Nutrition and Dietetics; c2016 [cited 2016 Dec 27]. Available from: <a href="https://www.eatright.org/">https://www.eatright.org/</a>

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Accompanying the manuscripts, the additional data and information must be uploaded as supplementary materials. These contents can be accessed by certain links instead of direct presentation in the text. Authors should make sure that:

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Figures submitted to *Exploration of BioMat-X* should not be published elsewhere (unless you have obtained the copyright permission, and mentioned and/or cited it in the figure legend with a clear note). As *Exploration of BioMat-X* adopts a single-column layout, please submit figures at the size you wish to display, and ensure that all the information can be clearly identified. To avoid potential major changes after manuscript's acceptance, please read the following guidelines and requirements.

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For high-quality presentation of figures, acceptable file formats include bmp, jpg, png, tif, eps, pdf, psd; ChemDraw (.cdx) for chemical structures; figures created in Word, Excel, PowerPoint, Adobe Illustrator, etc. should be editable, such as column charts, bar charts, line charts, pie charts, etc.

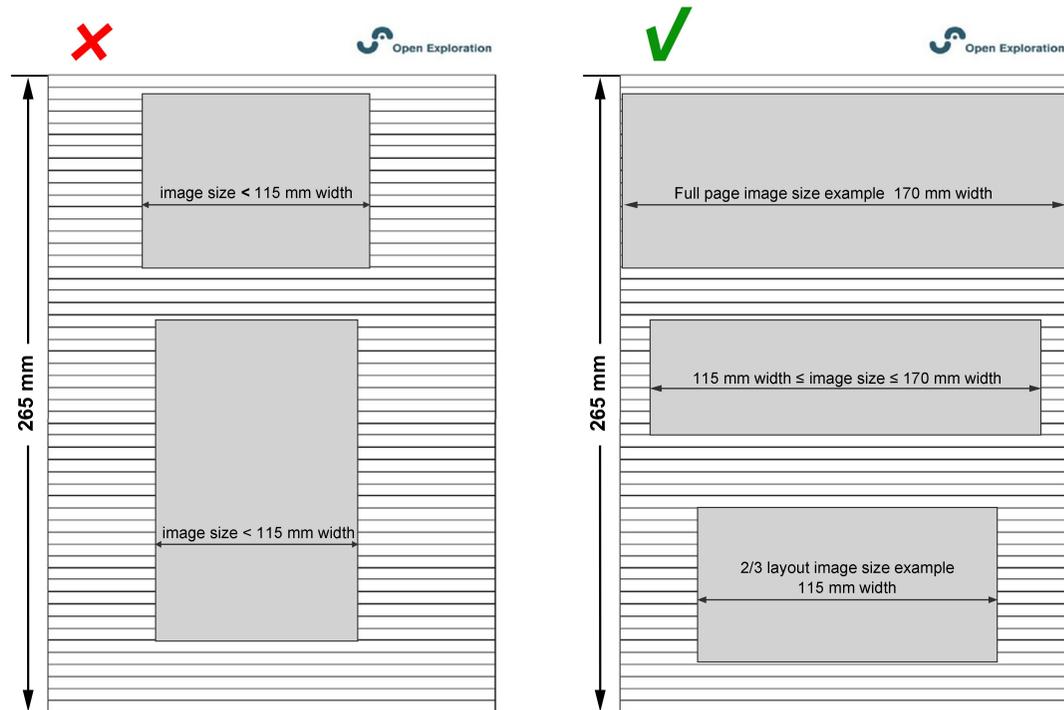
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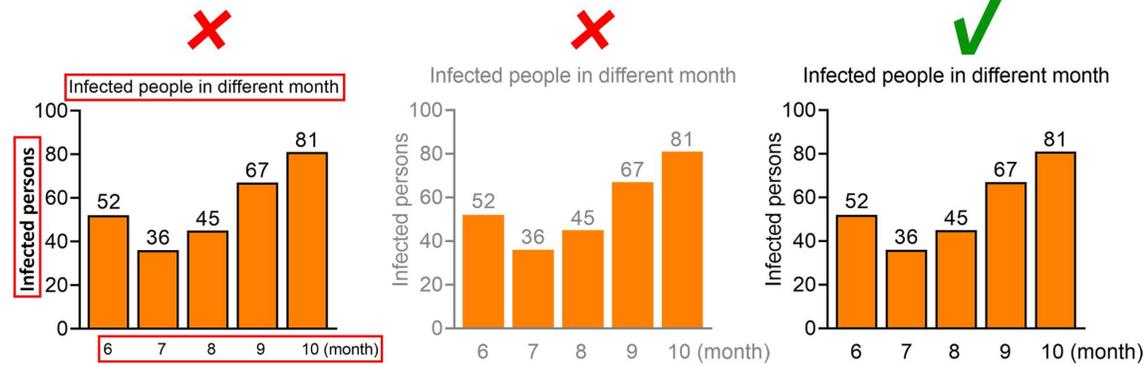
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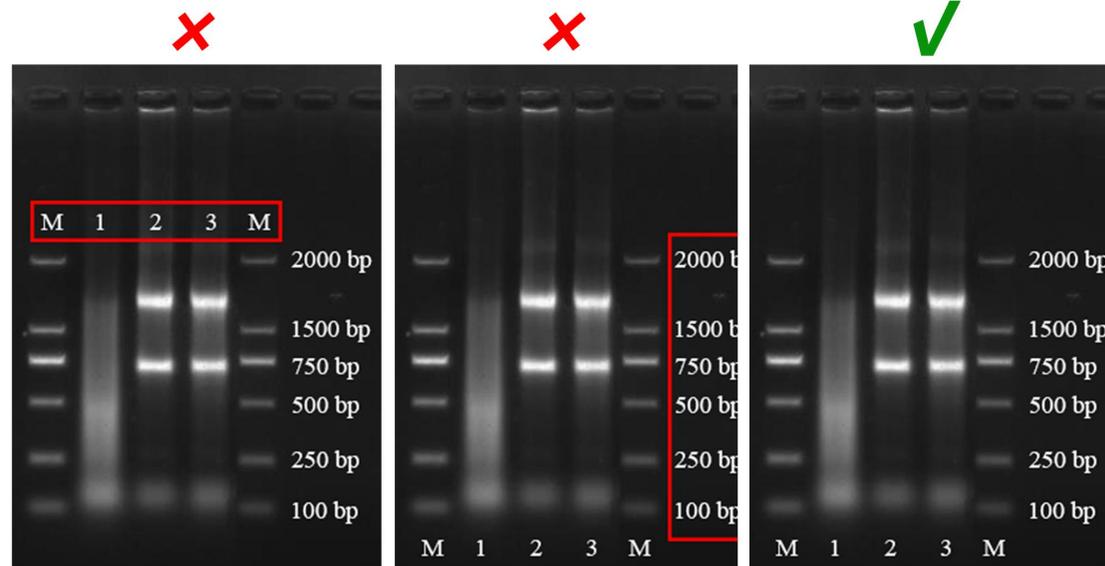
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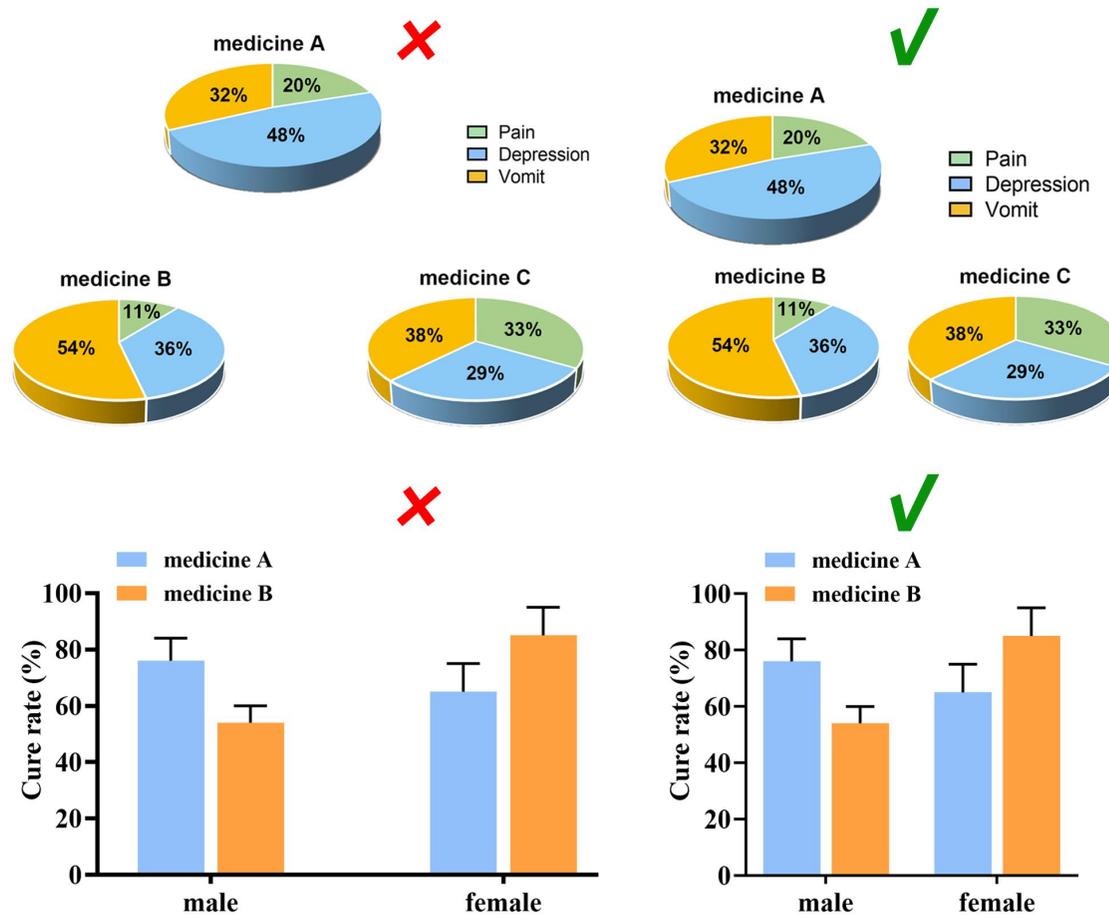


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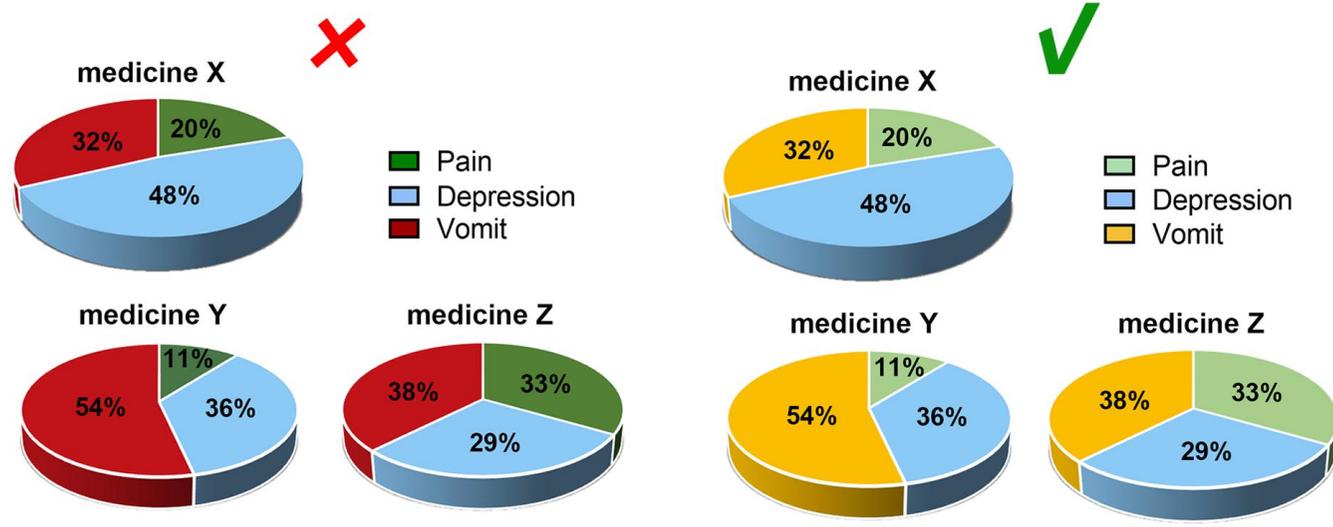
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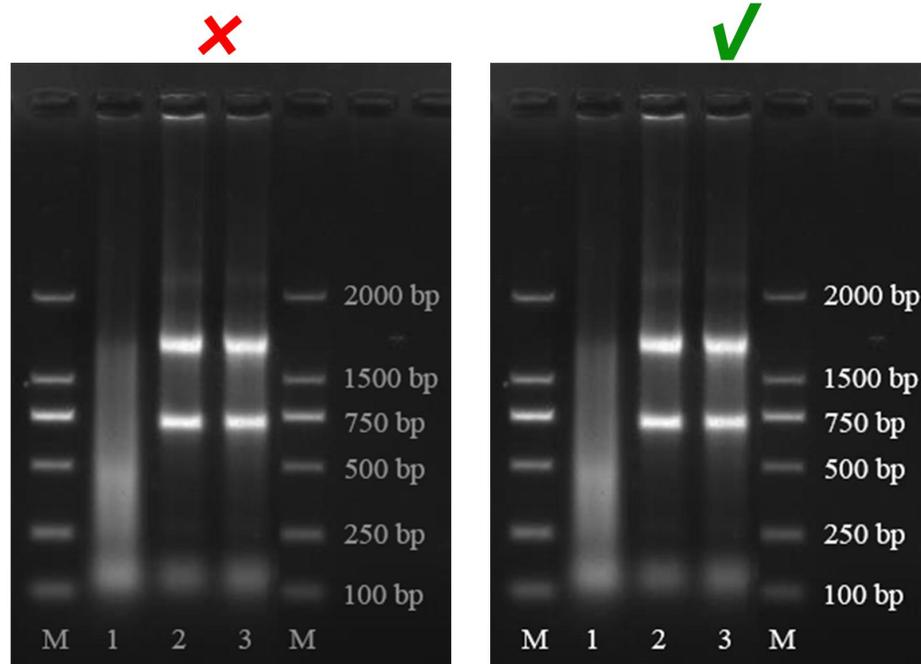
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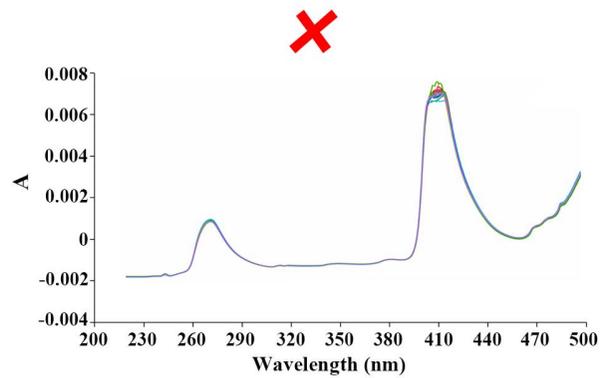


Figure 1. Absorbtion spectrum of compound B

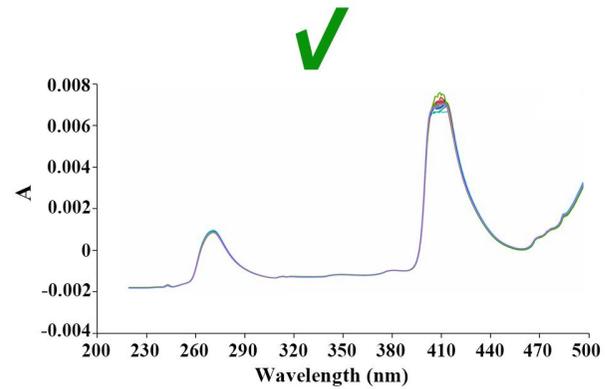
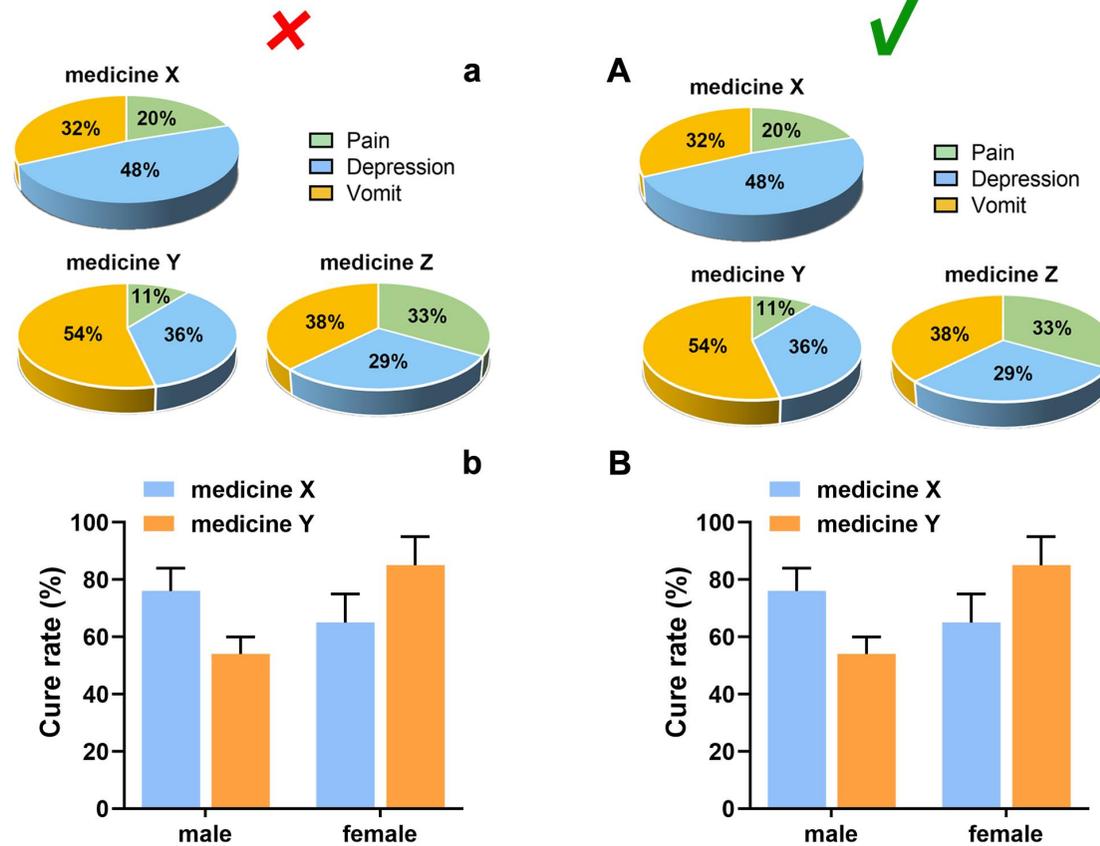


Figure 1. Absorbtion spectrum of compound B. **A: absorbance.**

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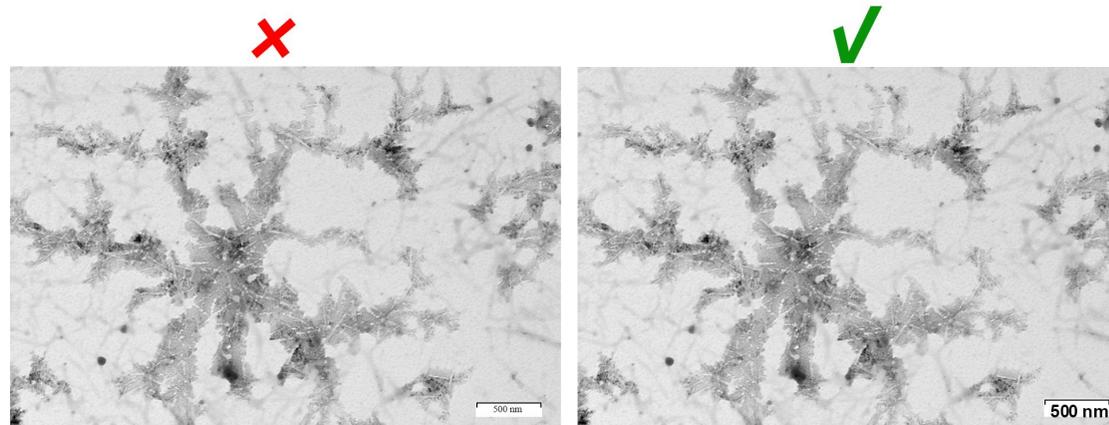
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[updated on March 1, 2024]

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[updated on March 1, 2024]

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Generally, the following contents should be italic:

★ *vs.*, *in vivo*, *in vitro*;

★ *t* test, *F* test, *U* test;

★ related coefficient as *r*;

★ sample number as *n*;

★ probability as *P*;

★ names of genes;

★ names of bacteria;

★ biology species in Latin.

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Use words for numbers appearing at the beginning of sentences.

Use words for numbers one to nine, e.g., five patients.

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Use the Microsoft Equation Editor or the MathType for equations.

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