journals_logo_w_asm_logo_stacked_(1).jpg

LATEX template for research and review papers in ASM journals

- 3 First Author, Second Author, Third Author, Fourth Author^{1,2*}
- 4 ¹Division, Department, University Name, City, State or Province, Country
- 5 ²Company Name, City, State or Province, Country
- 6 ³Department, Institution Name, City, State or Province, Country
- 7 *Address correspondence to Fourth Author, fourthauthor@institution.edu.
- 8 Present address: Second Author, Current Affiliation, City, State or Province, Country.
- 9 First Author and Second Author contributed equally to this work. Author order was
- 10 determined by XXXX.
- 11 Third Author and Fourth Author are co-senior authors.

12 ABSTRACT

- 13 Different article types have different formatting requirements and not all variations are
- 14 captured in this template. Refer to the specific instructions for individual journals,
- 15 especially the pages on the Submission and Review Process and Article Types, to
- 16 understand the relevant formatting elements.
- 17 The Abstract (called Summary in CMR and MMBR reviews) should concisely
- 18 summarize the basic content of the paper without presenting extensive experimental
- 19 details. Because it will be published separately by abstracting services, it must be
- 20 complete and understandable without reference to the text. Avoid abbreviations and
- 21 references; if it is essential to include a reference, use the format shown under
- 22 "Citations in abstracts" here. Limit of 250 words for full-length texts and research articles,

- 23 resource reports, methods and protocols, observations, reviews, and minireviews; 150
- 24 words for opinion/hypothesis papers; and 75 words for JVI gems and AAC short forms;
- 25 new-data letters do not have abstracts.

26 IMPORTANCE

- 27 Some article types require an Importance section, which provides a nontechnical
- 28 explanation of the significance of the study to the field. These types are full-length texts in
- 29 AEM, IAI, and JVI, research articles, resource reports, methods and protocols, and
- 30 observations. The limit is \leq 150 words, except for full-length texts in IAI, where it should
- 31 be \leq 120 words.

32 INTRODUCTION

- 33 The introductory portion should supply sufficient background information to allow
- 34 the reader to grasp the focus or rationale of your paper, understand the hypothesis you
- 35 address, and evaluate the results of the study without referring to previous publications
- 36 on the topic.

37 LATEX files

- Files from a project may be transferred directly to a selected ASM journal once for
- 39 initial manuscript submission. A compiled PDF alone is acceptable for initial submission
- 40 of a manuscript prepared in LATEX; refer to the Initial Submission Checklist for more
- 41 details. At the revision stage, ASM requires all LATEX files from a project to be uploaded.
- 42 On the journal submission site, the .tex file should be classified as a Manuscript Text File.
- 43 Other supporting files that appear in the package (i.e., .bib, .bst, .cls, .ldf, and .sty files)
- 44 should all be included and classified as LATEX Support Files. Figures should be classified
- 45 as Figure files; see the guidance for figures for formatting requirements. At the revision
- 46 stage, when the manuscript record already exists, any files requiring modification must be

- 47 replaced. Contact journal staff with questions related to file conversion in the manuscript
- 48 record.

49 Sectioning commands

- 50 Use \section to get a first-level heading. You can use \subsection or just \textbf to get
- 51 a subheading. Further sectioning levels, such as \subsubsection, are ignored. First-level
- 52 heads (boldface, all caps) for the Materials and Methods, Results, and Discussion sections
- 53 are required only in full-length texts, research articles, resource reports, and methods and
- 54 protocols.

55 Reviews, minireviews, and Gems

- Reviews, minireviews, and Gems may have specific length limits and, for some
- 57 journals, may be submitted by invitation only. Refer to the
- 58 specific instructions for individual journals, especially the pages on the Submission and
- 59 Review Process and Article Types, for details. Instead of Materials and Methods, Results,
- 60 and Discussion, these papers typically have first-level heads (boldface, all caps)
- 61 delineating the desired major sections, as well as subsection heads as needed. Brief
- 62 biographies of the authors and author photos may be included at the end of the
- 63 manuscript (see the end of this template for more information).

64 Citations and references

- This template uses BibTeX and natbib, so \citep and \citet such as
- 66 \citep{caserta:etal:2012}, \citet{johnson:robinson:2016} can be used as usual to produce
- 67 the correct citation style, and the reference list is generated automatically. In the
- 68 References list, references are numbered in the order in which they are cited in the article
- 69 (citation-sequence reference system). In the text, references are cited parenthetically by
- 70 number in sequential order. Data that are not published or not peer reviewed are simply
- 71 cited parenthetically in the text. For additional guidelines and examples, see this page.

72 MATERIALS AND METHODS

- 73 The materials and methods section in primary-research papers should include
- 74 sufficient technical information to allow the experiments to be repeated.

75 Math and equations

- Figure 76 Equations can be presented either inline in the text or as centered display equations,
- 77 with or without numbering:
- 78 \begin{equation}
- 79 $\frac{^2 \ \frac{x^2} + \frac{x^2} +$
- 80 $\frac{\alpha^2 \Pr{\alpha^2 \Pr{\alpha^2 \Pr{\beta^2 \pmod{z^2}}}}}{\operatorname{partial} z^2} =$
- $\frac{1}{c^2}\frac{2}\frac{c^2}{\frac{c^2}\frac{c^2}{rac}}$
- 82 \end{equation}
- 83 Please note that display equations in the template may be rendered with a slightly
- 84 different presentation in the final published ASM journal article.
- 85 \begin{equation}
- 86 $\int e^{-\alpha x^2} \operatorname{d} x =$
- $frac12 \left(\frac{-\inf y^{-\sinh x^2}}{\right)$
- $\label{eq:limit} $$\operatorname{mathrm}_{d}x\int_{-\inf y}^{\inf y} e^{-\alpha y^2}\operatorname{mathrm}_{d}y = $$$
- 89 \\frac12\sqrt{\frac{\pi}{\alpha}}
- 90 \end{equation}

91 **RESULTS**

- In the Results section, include the rationale or design of the experiments as well as the
- 93 results; reserve extensive interpretation of the results for the Discussion section. For
- 94 shorter research papers, these two sections can be combined under a single "RESULTS
- 95 AND DISCUSSION" first-level head.

96 Figures

99

On initial submission, figures and legends should be embedded in the text near where they are cited, to assist review. Here is an example of a figure citation (Fig. 1).

fpo.jpg

FIG 1 This is an example figure with caption. Include each figure and its legend within the manuscript near where it is cited in the text.

At the modification stage, separate production quality digital files must be provided for figures, and legends should appear after the References section in the main text. See the <u>guidance for figures</u> for formatting requirements. All graphics submitted with modified manuscripts should be grayscale or in the RGB color mode and should be at their intended publication size.

Tables

105

The tabularx, booktabs, and siunitx packages are loaded by asm-article.cls; see

107 \autoref{tab:example} for an example table. Use

108 \verb | \begin{fullwidth}...\end{fullwidth} | in your table for the table to span the entire

109 width of the page. Shading in the field of tables is allowed, to demonstrate relationships

110 among data. You can use the \verb | \columncolor |, \verb | \rowcolor |, or

111 \verb | \cellcolor | commands to do this: allowed color values are \verb | black!20 | and

112 \verb | black!30 |. Here is an example (Table 1).

TABLE 1 Automobile land speed records (GR 5-10)^a

	Speed					Extra
	(mph)	Driver	Car	Engine	Date	comments
	407.447	Craig	Spirit of	GE J47	8/5/63	(Just to demo a
		Breedlove	America			full-width table
						with
						auto-wrapping
						long lines)
	413.199	Tom Green	Wingfoot	WE J46	10/2/64	
			Express			
	434.22	Art Arfons	Green	GE J79	10/5/64	
113			Monster			
	526.277	Craig	Spirit of	GE J79	10/15/64	
		Breedlove	America			
	536.712	Art Arfons	Green	GE J79	10/27/65	
			Monster			
	622.407	Gary	Blue Flame	Rocket	10/23/70	
		Gabelich				
	633.468	Richard	Thrust 2	RR RG 146	10/4/83	
		Noble				
	763.468	Andy	Thrust SSc	RR Spey	10/15/97	
_		Green				

aTable adapted from https://www.sedl.org/afterschool/toolkits/science/pdf/ast_
 sci_data_tables_sample.pdf with permission.

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- 119 permissions as additional files during manuscript submission or otherwise forwarding
- 120 them to ASM Journals staff. Proper attribution for any such material must be provided in
- 121 the manuscript.

122 **DISCUSSION**

- 123 The Discussion section should provide an interpretation of the results in relation to
- 124 previously published work and to the experimental system at hand and should not
- 125 contain extensive repetition of the Results section or reiteration of the introduction. In
- shorter research papers, the Results and Discussion sections may be combined.

' ACKNOWLEDGMENTS

- 128 Statements regarding sources of direct financial support (e.g., grants, fellowships,
- 129 scholarships, etc.), personal assistance, or contributor roles appear in this section.
- 130 Use \begin{acknowledgments}...\end{acknowledgments} environment to place your
- 131 acknowledgments section, commands to do this: output will not come in the pdf for
- 132 double blind mode.

133 DATA AVAILABILITY STATEMENT

- 134 Per ASM's open data policy, a condition of publication in ASM journals is that authors
- make data fully available and without restriction, except in rare circumstances. Data
- 136 availability will be confirmed prior to publication and must be provided during the
- 137 modification stage, if not before. Upon request, data must also be made available for peer
- 138 review. Include a data availability statement that contains a description of the data, name
- 139 of the repository, and digital object identifiers (DOIs) or accession numbers.

140 CLINICAL TRIALS

141 Add clinical trial registry name and number here, if applicable.

142 ETHICS APPROVAL

143 Provide an ethics approval statement for your study here, if applicable.

144 **FUNDING**

- Add funding info here: funder name, grant number, and name of recipient author.
- 146 Use \begin\funding\...\end\funding\} environment to place your funding section,
- 147 commands to do this: output will not come in the pdf for double blind mode.

148 CONFLICTS OF INTEREST

- State all conflicts of interest here or say, "The authors declare no conflict of interest."
- Use \begin{conflictsinterest}...\end{conflictsinterest} environment to place your
- 151 conflicts of interest section, commands to do this: output will not come in the pdf for
- 152 double blind mode.

Supplemental material

- 154 If you have supplemental material intended for posting by ASM, cite it in the
- 155 manuscript but do NOT include the file(s) or legends in this template. Instead, in the
- 156 journal submission portal, upload supplemental material separate from the main
- 157 manuscript file(s) as either a single PDF (preferred) or individual files, with legends
- 158 included in said file(s). References related only to the supplemental material should be
- 159 included within the supplemental file(s) rather than in the References section of the main
- 160 paper.

161 REFERENCES

```
162
     asm-sample.bib goes here.
163
     @article{caserta:etal:2012,
164
      author = {Caserta, E. and Haemig, H. A. H. and Manias, D. A. and Tomsic, J. and Grundy,
165
      F. J. and Henkin, T. M. and Dunny, G.M.},
166
      title = {\emph{In vivo} and \emph{in vitro} analyses of regulation of the
167
      pheromone-responsive \emph{prgQ} promoter by the PrgX pheromone receptor protein},
168
      journal = {Journal of Bacteriology},
169
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170
      volume = \{194\},
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      pages = \{3386 - 3394\},
172 }
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174
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175
      title = {Cleavage of JPS-1 in cells infected with human rhinovirus},
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      journal = {mSystems},
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      author={Winnick, Sheldon and Lucas, David O and Hartman, Adam L and Toll, David},
184
      journal={Pediatrics},
185
      volume={115},
186
      pages={e718--e724},
187
       year = \{2005\},
188 }
```

AUTHOR BIOGRAPHIES

189

195

196

blind mode.

Author biographies (≤150 words each) and photos (black and white, passport size)

can be inserted here. They are required for reviews in CMR and MMBR but optional for
minireviews in other journals and Gems in JVI. Do not include them for primary-research
articles. See the specific instructions for individual journals for more information.

Use \begin{authorbios}...\end{authorbios} environment to place your author

biographies section, commands to do this: output will not come in the pdf for double

10