**Template** 

Submission

mSystems

Submission Template

# This Is the Sample Template for American Society for Microbiology (ASM) Journal **Articles**

- First Author,<sup>a</sup> Second Author,<sup>a,†</sup> Third Author,<sup>b</sup> Fourth Final Author,<sup>a,b,\*</sup>
- University Name, Faculty Group, Department, City, Country<sup>a</sup>; Company Name, City, Country<sup>b</sup>

Research Articles have structured abstracts consisting of two sections with their own headings: "Abstract" and "Importance." Because the structured abstract will be published separately by abstracting services, it must be complete and understandable without reference to the text. The Abstract section should be no more than 250 words and should concisely summarize the basic content of the paper without presenting extensive experimental details.

The Importance section should be no more than 150 words and should provide a nontechnical explanation of the significance of the study to the field. Avoid abbreviations and references, and indicate the specific organism under study. When it is essential to include a reference, use the format shown under "References" below.

**KEYWORDS:** keyword 1, keyword 2, keyword 3.

lease read the Instructions to Authors carefully, or browse the FAQs for further details.

## **INTRODUCTION**

The introduction should supply sufficient background information to allow the reader to understand and evaluate the results of the present study without referring to previous publications on the topic. The introduction should also provide the hypothesis that was addressed or the rationale for the present study. Choose references carefully to provide the most salient background rather than an exhaustive review of the topic.

Sectioning commands. Use \section to get a first-level heading. You can use \subsection or just \textbf to get a sub-heading. Further sectioning levels, such as \subsubsection, etc., are ignored.

Citations and References. This template uses BibTeX and natbib, so \citet such as Aivazian et al. (1) can be used as usual to produce the correct citation style, and the reference list is generated automatically. In the reference list, references are numbered in the order in which they are cited in the article (citation-sequence reference system). In the text, references are cited parenthetically by number in sequential order. Data that are not published or not peer reviewed are simply cited parenthetically in the text.

Since the abstract must be able to stand apart from the article, references cited in it should be clear without recourse to the References section. Use an abbreviated form of citation, omitting the article title, as follows.

- (M. J. Fraser, G. E. Smith, and M. D. Summers, J Virol 47:287–300, 1983)
- (J. Scholefield, R. Manson, R. J. Johnston, R. Scott, and M. Spinell, p. 179–183, in R. C. Tilton, ed., Rapid Methods and Automation in Microbiology, 1981)

### Compiled July 11, 2017

This is a draft manuscript, pre-submission

Address correspondence to Fourth Author, fourth@author.edu.

† Present Address: Second Author, Full Affilia-

F.A., S.A. and F.F.A. contributed equally to this

ms Submission Template

41

FirstAuthor et al.

# $16 \times 9$

(Original size: 320×180 bp)

FIG 1 This is an example figure with caption. Use the fullwidth environment to make it span the entire width of the page. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

"...the recent report of A. K. Datta and J. S. Pagano (Antimicrob Agents Chemother 24:10–14, 1983)..."

**Data citation.** To promote reproducibility, ASM expects researchers to identify and cite data sets and/or code used in their experiments and studies. These may be large or complex data sets that can include, but are not limited to, data from microarray, genomic, structural, proteomic, or video imaging analyses. **Authors should cite both the data set repository and the published article in which the data set and/or code was originally described.** Citations of data should be included in the reference list with persistent unique identifiers (e.g., active DOIs, accession numbers, etc.). If computer code or software was created to generate results or interpret data, then a statement to that effect should be included in the "Data availability" paragraph. For cases in which the software is publicly available (e.g., FigTree to generate phylogenetic trees), the URL of the software informational page should be provided. **It is preferred that authors use established, publicly available data type-specific repositories.** If there is no appropriate repository available, general publicly available repositories should be used (e.g., Dryad, figshare, etc.).

**File types and formats.** Illustrations may be continuous-tone images, line drawings, or composites. On initial submission, illustrations may be supplied as PDF files, with the legend on the same page, to assist review. At the modification stage, production quality digital files must be provided, along with text files for the legends. The legends are copyedited and typeset for final publication, not included as part of the figure itself.

All graphics submitted with modified manuscripts should be grayscale or in the

69

RGB color mode. Minimum resolution is 300 dpi for all file types. All images imported into a figure file must be at the correct resolution before they are placed in the file. (For instance, placing a 72-dpi image in a 300-dpi EPS file will not result in the placed image meeting the minimum requirements for file resolution.) Note that publication quality will not be improved by using a resolution higher than the minimum.

All graphics should be submitted at their intended publication size; that is, the image uploaded should be 100% of its print dimensions so that no reduction or enlargement is necessary. Resolution must be at the required level at the submitted size. Include only the significant portion of an illustration. White space must be cropped from the image, and excess space between panel labels and the image must be eliminated.

- Maximum figure width: 6.875 inches (ca. 17.4 cm)
- · Maximum figure height: 9.0625 inches (23.0 cm)

**Author Warranty.** If accepted for publication, the Work will be made freely available to the public on ASM's *mSystems* website. ASM will grant the public the nonexclusive right to copy, distribute, adapt, and transmit the published Work for commercial or non-commercial use with proper attribution under the Creative Commons, Attribution license, Version 4.0 (CC-BY). For details, see https://creativecommons.org/licenses/by/4.0/ and https://creativecommons.org/licenses/by/4.0/ and https://creativecommons.org/licenses/by/4.0/legalcode, as well as http://msystems.asm.org/content/author-warranty-and-provisional-license-publish.

### RESULTS

In the Results section, include the rationale or design of the experiments as well as the results; reserve extensive interpretation of the results for the Discussion section. Present the results as concisely as possible in one or more of the following: text, table(s), or figure(s). Data in tables (e.g., cpm of radioactivity) should not contain more significant figures than the precision of the measurement allows. Illustrations (particularly photomicrographs and electron micrographs) should be limited to those that are absolutely necessary to show the experimental findings. Number figures and tables in the order in which they are cited in the text, and be sure to cite all figures and tables.

The tabularx, booktabs and siunitx packages are loaded by asm-article.cls; see Table 1 for an example table. Use \begin{fullwidth}...\end{fullwidth} in your table for the table to span the entire width of the page.

### DISCUSSION

101

103

104

105

106

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

$$\frac{\partial^2 \Phi}{\partial x^2} + \frac{\partial^2 \Phi}{\partial y^2} + \frac{\partial^2 \Phi}{\partial z^2} = \frac{1}{c^2} \frac{\partial^2 \Phi}{\partial t^2}$$
 (1)

Please note that display equations in the Overleaf template may be rendered with a slightly different presentation in the final published (*mSystems*) article.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

**TABLE 1** Automobile land speed records (GR 5-10)<sup>a</sup>

FirstAuthor et al.

Speed (mph)	Driver	Car	Engine	Date	Extra comments
407.447	Craig Breedlove	Spirit of America	GE J47	8/5/63	(Just to demo a full-width table with auto-wrapping long lines)
413.199	Tom Green	Wingfoot Express	WE J46	10/2/64	
434.22	Art Arfons	Green Monster	GE J79	10/5/64	
468.719	Craig Breedlove	Spirit of America	GE J79	10/13/64	
526.277	Craig Breedlove	Spirit of America	GE J79	10/15/65	
536.712	Art Arfons	Green Monster	GE J79	10/27/65	
555.127	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/2/65	
576.553	Art Arfons	Green Monster	GE J79	11/7/65	
600.601	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/15/65	
622.407	Gary Gabelich	Blue Flame	Rocket	10/23/70	
633.468	Richard Noble	Thrust 2	RR RG 146	10/4/83	
763.035	Andy Green	Thrust SSC	RR Spey	10/15/97	

<sup>&</sup>lt;sup>a</sup>Source is from this website: https://www.sedl.org/afterschool/toolkits/science/pdf/ast\_sci\_data\_tables\_sample.pdf

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

$$\int_0^\infty e^{-\alpha x^2} dx = \frac{1}{2} \sqrt{\int_{-\infty}^\infty e^{-\alpha x^2}} dx \int_{-\infty}^\infty e^{-\alpha y^2} dy = \frac{1}{2} \sqrt{\frac{\pi}{\alpha}}$$
 (2)

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo conseguat.

# **MATERIALS AND METHODS**

The Materials and Methods section should include sufficient technical information to allow the experiments to be repeated. When centrifugation conditions are critical, give enough information to enable another investigator to repeat the procedure: make of centrifuge, model of rotor, temperature, time at maximum speed, and centrifugal force (xg rather than revolutions per minute). For commonly used materials and methods (e.g., media and protein concentration determinations), a simple reference is sufficient. If several alternative methods are commonly used, it is helpful to identify the method briefly as well as to cite the reference. For example, it is preferable to state "cells were broken by ultrasonic treatment as previously described (9)" rather than to state "cells were broken as previously described (9)." This allows the reader to assess the method without constant reference to previous publications. Describe new methods completely and give sources of unusual chemicals, equipment, or microbial strains. When large numbers of microbial strains or mutants are used in a study, include tables identifying the immediate sources (i.e., sources from whom the strains were obtained) and properties of the strains, mutants, bacteriophages, and plasmids, etc.

A method or strain, etc., used in only one of several experiments reported in the paper may be described in the Results section or very briefly (one or two sentences) in a table footnote or figure legend. It is expected that the sources from whom the strains were obtained will be identified.

Availability of data and materials. By publishing in mSystems, the authors agree that, subject to requirements or limitations imposed by local and/or U.S. Government laws and regulations, any materials and data that are reasonably requested by others 138

139

143

144

145

149

150

152

154

156

158

150

160

163

165

167

170

172

173

are available from a publicly accessible collection or will be made available in a timely fashion, at reasonable cost, and in limited quantities to members of the scientific community for noncommercial purposes. Similarly, the authors agree to make available computer programs and/or code, originating in the authors' laboratory, that is the only means of confirming the conclusions reported in the article but that is not available commercially. The program(s) and suitable documentation regarding its (their) use may be provided by any of the following means: (i) as a program transmitted via the Internet, (ii) as an Internet server-based tool, or (iii) as a compiled or assembled form on a suitable medium. The authors guarantee that they have the authority to comply with this policy either directly or by means of material transfer agreements through the owner. ASM asks authors to assert this in a "Data availability" paragraph, which should appear at the end of the Materials and Methods section (or at the end of the text) of their submitted manuscript.

Therefore, a condition of publication in mSystems is that authors make data fully available and without restriction, except in rare circumstances. Data availability will be confirmed prior to publication and must be provided during the modification stage, if not before. Furthermore, data must be made available, upon request, for peer review. See Data Policy.

# **ACKNOWLEDGMENTS**

Statements regarding sources of direct financial support (e.g., grants, fellowships, and scholarships, etc.) should appear in the Acknowledgments. A funding statement indicating what role, if any, the funding agency had in your study (for example, "The funders had no role in study design, data collection and interpretation, or the decision to submit the work for publication.") may be included. Funding agencies may have specific wording requirements, and compliance with such requirements is the responsibility of the author. In cases in which research is not funded by any specific project grant, funders need not be listed, and the following statement may be used: "This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors." Statements regarding indirect financial support (e.g., commercial affiliations, consultancies, stock or equity interests, and patent-licensing arrangements) are also allowed. It is the responsibility of authors to provide a general statement disclosing financial or other relationships that are relevant to the study. Recognition of personal assistance should be given as a separate paragraph, as should any statements disclaiming endorsement or approval of the views reflected in the paper or of a product mentioned therein.

Please read the Instructions to Authors or browse the FAQs for further details.

### 74 REFERENCES

- Aivazian D, Serrano RL, Pfeffer S. TIP47 is a key effector for Rab9 localization. The J. Cell Biol. 2006; 173(6):917–926. http://jcb.rupress.org/ content/173/6/917
- 2. Cox CS, Brown BR, Smith JC. J. Genet. In press; .
- Falagas ME, Kasiakou SK. Use of international units when dosing colistin will help decrease confusion related to various formulations of the drug around the world. Antimicrob. agents chemotherapy 2006; 50(6):2274–2275.
- 4. Forman MS, Valsamakis A. Specimen collection, transport, and process-
- ing: virology. In: Murray PR, Baron EJ, Pfaller MA, Jorgensen JH, Yolken RH, editors. Manual of Clinical Microbiology, 8th ed. Washington, DC: ASM Press; 2003.p. 1227–1241.
- Green PN, Hood D, Dow CS. Taxonomic status of some methylotrophic bacteria. In: Microbial growth on C1 compounds. Proceedings of the 4th International Symposium. American Society for Microbiology Washington, DC; 1984. p. 251–254.
- Winnick S, Lucas DO, Hartman AL, Toll D. How do you improve compliance? Pediatr. 2005; 115(6):e718–e724.