AMiGA: software for automated Analysis of Microbial Growth Assays

Firas Midani, James Collins, and Robert Britton

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Transaction Report:

(Note: With the exception of the correction of typographical or spelling errors that could be a source of ambiguity, letters and reports are not edited. The original formatting of letters and referee reports may not be reflected in this compilation.)

June 2, 2021

Dr. Firas S Midani
Baylor College of Medicine
Molecular Virology and Microbiology
Houston, TX 77098

Re: mSystems00508-21 (AMiGA: software for automated Analysis of Microbial Growth Assays)

Dear Dr. Firas S Midani:

Thank you for submitting your manuscript to mSystems. We have completed our review and I am pleased to inform you that, in principle, we expect to accept it for publication in mSystems. However, acceptance will not be final until you have adequately addressed the reviewer comments.

Thank you for the privilege of reviewing your work. Below you will find instructions from the mSystemseditorial office and comments generated during the review.

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To submit your modified manuscript, log onto the eJP submission site at https://msystems.msubmit.net/cgi-bin/main.plex. Go to Author Tasks and click the appropriate manuscript title to begin the revision process. The information that you entered when you first submitted the paper will be displayed. Please update the information as necessary. Here are a few examples of required updates that authors must address:

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• Upload a compare copy of the manuscript (without figures) as a "Marked-Up Manuscript" file.
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• Manuscript: A .DOC version of the revised manuscript
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Sincerely,

Rafael Silva-Rocha

Editor, mSystems

Reviewer comments:

Reviewer #1 (Comments for the Author):

In general terms, the authors have responded satisfactorily to my observations. However, there are still some minor comments and details that the authors should consider before accepting the manuscript.

-In Figure 2A the term Non-carbon control still appears

-The Materials and Methods section does not indicate where the data for C. sedlakii and Y. Enterocolitica come from. If it is mentioned that Growth data for ancestral strain and transposon mutants of P. aeruginosa were obtained from reference 28. This is indicated in the results section (line 315). In the materials section, it must be clear where all the data come from if they were not obtained experimentally.

L615: Data Availability? Where?

Reviewer #2 (Comments for the Author):

I previously reviewed this manuscript and the authors have thoroughly addressed all of my initial concerns, which were minor. The methodology, software, and documentation are a very important contribution and will be of broad interest.

Reviewer #3 (Comments for the Author):

The authors have appropriately taken into account most of my comments.

Reviewer comments

Reviewer #1 (Comments for the Author):

In general terms, the authors have responded satisfactorily to my observations. However, there are still some minor comments and details that the authors should consider before accepting the manuscript.

-In Figure 2A the term Non-carbon control still appears

Thank you for catching this error. We have corrected the figure by changing "No-carbon Control" to "Minimal Media".

-The Materials and Methods section does not indicate where the data for C. sedlakii and Y. Enterocolitica come from. If it is mentioned that Growth data for ancestral strain and transposon mutants of P. aeruginosa were obtained from reference 28. This is indicated in the results section (line 315). In the materials section, it must be clear where all the data come from if they were not obtained experimentally.

L615: Data Availability? Where?

We initially combined the Software Availability section and the Data Availability section as a single section titled "Software implementation and data availability". For clarity, we have separated them into their own individual sections. Now, we also include links to the public repositories where the data for *C. sedlakii*, *P. aeruginosa*, and *Y. Enterocolitica* are available, in addition to citing their corresponding references.

Reviewer #2 (Comments for the Author):

I previously reviewed this manuscript and the authors have thoroughly addressed all of my initial concerns, which were minor. The methodology, software, and documentation are a very important contribution and will be of broad interest.

Reviewer #3 (Comments for the Author):

The authors have appropriately taken into account most of my comments.

Thank you to all reviewers. Your feedback greatly improved our manuscript.

June 16, 2021

Dr. Firas S Midani
Baylor College of Medicine
Molecular Virology and Microbiology
Houston, TX 77098

Re: mSystems00508-21R1 (AMiGA: software for automated Analysis of Microbial Growth Assays)

Dear Dr. Firas S Midani:

Your manuscript has been accepted, and I am forwarding it to the ASM Journals Department for publication. For your reference, ASM Journals' address is given below. Before it can be scheduled for publication, your manuscript will be checked by the mSystems senior production editor, Ellie Ghatineh, to make sure that all elements meet the technical requirements for publication. She will contact you if anything needs to be revised before copyediting and production can begin. Otherwise, you will be notified when your proofs are ready to be viewed.

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Thank you for submitting your paper to mSystems.

Sincerely,

Rafael Silva-Rocha
Editor, mSystems

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E-mail: peerreview@asmusa.org
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Fig S6: Accept
Fig S1: Accept
Table S1: Accept
Data S1: Accept
Fig S2: Accept
Fig S5: Accept
Fig S7: Accept
Table S2: Accept
Fig S4: Accept
Fig S3: Accept