

A network-based method to repurpose marketed therapeutics for antiviral use: A SARS-CoV-2 case study

Susan Ghiassian, Mengran Wang, Johanna Withers, Piero Ricchiuto, Ivan Voitalov, Michael McAnally, Helia N Sanchez, Alif Saleh and Viatcheslav Akmaev **DOI:** https://doi.org/10.26508/lsa.202000904

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(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.)

No full Peer Review Process File is available with this article, as the authors have chosen not to make the review process public in this case.

December 11, 2020

Re: Life Science Alliance manuscript #LSA-2020-00904-T

Dina Ghiassian Scipher Medicine Corporation 221 Crescent St. Suite 103A Waltham, MA02453

DearDr. Ghiassian,

Thank you for submitting your manuscript entitled "A network-based method to repurpose marketed therapeutics for antiviral use: A SARS-CoV-2 case study" to Life Science Alliance. The manuscript was assessed by expert reviewers, whose comments are appended to this letter.

As you will note from the reviewers' comments below, the reviewers are quite excited about these findings, but do think that some revisions are warranted to improve the manuscript. We encourage you to submit a revised version that addresses all the points raised by the reviewers.

To upload the revised version of your manuscript, please log in to your account: https:// lsa.msubmit.net/cgi-bin/main.plex

You will be guided to complete the submission of your revised manuscript and to fill in all necessary information. Please get in touch in case you do not know or remember your login name.

We would be happy to discuss the individual revision points further with you should this be helpful.

While you are revising your manuscript, please also attend to the below editorial points to help expedite the publication of your manuscript. Please direct any editorial questions to the journal office.

The typical timeframe for revisions is three months. Please note that papers are generally considered through only one revision cycle, so strong support from the referees on the revised version is needed for acceptance.

When submitting the revision, please include a letter addressing the reviewers' comments point by point.

We hope that the comments below will prove constructive as your work progresses.

Thank you for this interesting contribution to Life Science Alliance. We are looking forward to receiving your revised manuscript.

Sincerely,

Shachi Bhatt, Ph.D. Executive Editor Life Science Alliance https://www.lsajournal.org/ Tweet @SciBhatt @LSAjournal

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-- A letter addressing the reviewers' comments point by point.

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Full guidelines are available on our Instructions for Authors page, https://www.life-sciencealliance.org/authors

We encourage our authors to provide original source data, particularly uncropped/-processed electrophoretic blots and spreadsheets for the main figures of the manuscript. If you would like to add source data, we would welcome one PDF/Excel-file per figure for this information. These files will be linked online as supplementary "Source Data" files.

IMPORTANT: It is Life Science Alliance policy that if requested, original data images must be made available. Failure to provide original images upon request will result in unavoidable delays in publication. Please ensure that you have access to all original microscopy and blot data images before submitting your revision.

February 2, 2021

RE: Life Science Alliance Manuscript #LSA-2020-00904-TR

Dr. Susan D Ghiassian Scipher Medicine Corporation 221 Crescent St. Suite 103A Waltham, MA 02453

Dear Dr. Ghiassian,

Thank you for submitting your revised manuscript entitled "A systems-based method to repurpose marketed therapeutics for antiviral use: A SARS-CoV-2 case study". We would be happy to publish your paper in Life Science Alliance pending final revisions necessary to meet the minor concerns raised by the reviewer (see below) and our formatting guidelines.

Along with the points listed below, please also attend to the following,

-please consult our manuscript preparation guidelines https://www.life-science-alliance.org/manuscriptprep and make sure your manuscript sections are in the correct order

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-please add your main, supplementary figure legends, and supplementary table legends to the main manuscript text, after the references;

-Please add callouts For Tables S2, S3, S4 to the main manuscript text

-please make sure that the Author Contributions listed in the manuscript file match with what has been added to our system

-please incorporate the supplemental methods and the legends for supplemental tables from the 'Supplemental Material' file to the main manuscript text

If you are planning a press release on your work, please inform us immediately to allow informing our production team and scheduling a release date.

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You will be guided to complete the submission of your revised manuscript and to fill in all necessary information. Please get in touch in case you do not know or remember your login name.

To avoid unnecessary delays in the acceptance and publication of your paper, please read the following information carefully.

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-- Summary blurb (enter in submission system): A short text summarizing in a single sentence the study (max. 200 characters including spaces). This text is used in conjunction with the titles of papers, hence should be informative and complementary to the title. It should describe the context and significance of the findings for a general readership; it should be written in the present tense and refer to the work in the third person. Author names should not be mentioned.

B. MANUSCRIPT ORGANIZATION AND FORMATTING:

Full guidelines are available on our Instructions for Authors page, https://www.life-sciencealliance.org/authors

We encourage our authors to provide original source data, particularly uncropped/-processed electrophoretic blots and spreadsheets for the main figures of the manuscript. If you would like to add source data, we would welcome one PDF/Excel-file per figure for this information. These files will be linked online as supplementary "Source Data" files.

Submission of a paper that does not conform to Life Science Alliance guidelines will delay the acceptance of your manuscript.

It is Life Science Alliance policy that if requested, original data images must be made available to the editors. Failure to provide original images upon request will result in unavoidable delays in publication. Please ensure that you have access to all original data images prior to final submission.

The license to publish form must be signed before your manuscript can be sent to production. A link to the electronic license to publish form will be sent to the corresponding author only. Please take a moment to check your funder requirements.

Reviews, decision letters, and point-by-point responses associated with peer-review at Life Science Alliance will be published online, alongside the manuscript. If you do want to opt out of having the reviewer reports and your point-by-point responses displayed, please let us know immediately.

Thank you for your attention to these final processing requirements. Please revise and format the manuscript and upload materials within 7 days.

Thank you for this interesting contribution, we look forward to publishing your paper in Life Science Alliance.

Sincerely,

Shachi Bhatt, Ph.D. Executive Editor Life Science Alliance https://www.lsajournal.org/ Tweet @SciBhatt @LSAjournal

February 5, 2021

RE: Life Science Alliance Manuscript #LSA-2020-00904-TRR

Dr. Susan D Ghiassian Scipher Medicine Corporation 221 Crescent St. Suite 103A Waltham, MA 02453

Dear Dr. Ghiassian,

Thank you for submitting your Research Article entitled "A systems-based method to repurpose marketed therapeutics for antiviral use: A SARS-CoV-2 case study". It is a pleasure to let you know that your manuscript is now accepted for publication in Life Science Alliance. Congratulations on this interesting work.

The final published version of your manuscript will be deposited by us to PubMed Central upon online publication.

Your manuscript will now progress through copyediting and proofing. It is journal policy that authors provide original data upon request.

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Again, congratulations on a very nice paper. I hope you found the review process to be constructive and are pleased with how the manuscript was handled editorially. We look forward to future exciting submissions from your lab.

Sincerely,

Shachi Bhatt, Ph.D. Executive Editor Life Science Alliance https://www.lsajournal.org/ Tweet @SciBhatt @LSAjournal

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