



Life Science Alliance

Phosphorylation of Arp2 is not essential for Arp2/3 complex activity in fission yeast

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Scientific Editor: Andrea Leibfried

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.)

Please note that the manuscript was previously reviewed at another journal and the reports were taken into account in the decision-making process at Life Science Alliance. Since the original reviews are not subject to Life Science Alliance's transparent review process policy, the reports and author response cannot be published.

September 28, 2018

Re: Life Science Alliance manuscript #LSA-2018-00202-T

Dr. Thomas D Pollard
Yale University
Molecular, Cellular and Developmental Biology
Kline Biology Tower 222
266 Whitney Avenue
New Haven, CT 06511-8112

Dear Dr. Pollard,

Thank you for transferring your manuscript entitled "Phosphorylation of Arp2 is not essential for Arp2/3 complex activity in fission yeast" to Life Science Alliance. The manuscript was assessed by expert reviewers at another journal before, and the editors transferred those reports to us with your permission.

The reviewers think that your data are of high quality and of value to the field. They noted, however, that the controversy regarding the role of Arp2/3 complex phosphorylation for complex function is not entirely settled, because such role could be context- or organism-dependent. Based on the reviewer reports already at hand, we would be happy to publish your work in Life Science Alliance pending minor revision. We would expect a point-by-point response to the specific criticisms raised by the reviewers and accordingly changes to the data representation and inclusion of a statistical test for Fig2. We would further appreciate if you could provide expression level analysis for Arp2/3 complex components as requested by reviewers #1 and #3.

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.

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.

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

Sincerely,

Andrea Leibfried, PhD
Executive Editor
Life Science Alliance
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t +49 6221 8891 502

A. THESE ITEMS ARE REQUIRED FOR REVISIONS

- A letter addressing the reviewers' comments point by point.
- An editable version of the final text (.DOC or .DOCX) is needed for copyediting (no PDFs).
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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 and running 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.

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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.*******

October 10, 2018

RE: Life Science Alliance Manuscript #LSA-2018-00202-TR

Dr. Thomas D Pollard
Yale University
Molecular, Cellular and Developmental Biology
Kline Biology Tower 222
266 Whitney Avenue
New Haven, CT 06511-8112

Dear Dr. Pollard,

Thank you for submitting your revised manuscript entitled "Phosphorylation of Arp2 is not essential for Arp2/3 complex activity in fission yeast", and for sending a point-by-point response to the criticisms raised during peer review elsewhere.

I appreciate the introduced changes and the reasoning for not analyzing the amount of Arp2/3 complex expressed in the cells by other means. Epitope tags affect the viability of some mutants and there are no specific antibodies available that do not cross-react with other *S. pombe* proteins, thus not allowing to test expression levels by western blot. I also value your response to the request to include a statistical analysis for the differences in the number of molecules per patch for different Arp2 mutants in Fig 2G, outlining that the number of separate experiments is not large enough to do so.

In light of your response and the changes introduced in the manuscript, we would be happy to publish your paper in Life Science Alliance pending final revisions necessary to meet our formatting guidelines:

- please add callouts to the following figures in the manuscript text:

Fig 1B,D

Fig 2B,C,E,F,G

Fig 3,B,C,D,E,F,G

Fig S4B

To upload the final version of your manuscript, please log in to your account:

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

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These items are required for acceptance.

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-- High-resolution figure, supplementary figure and video files uploaded as individual files: See our detailed guidelines for preparing your production-ready images, <http://life-science-alliance.org/authorguide>

-- 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.

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****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.****

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****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 this transparent process, 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,

Andrea Leibfried, PhD
Executive Editor
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RE: Life Science Alliance Manuscript #LSA-2018-00202-TRR

Dr. Thomas D Pollard
Yale University
Molecular, Cellular and Developmental Biology
Kline Biology Tower 222
266 Whitney Avenue
New Haven, CT 06511-8112

Dear Dr. Pollard,

Thank you for submitting your Research Article entitled "Phosphorylation of Arp2 is not essential for Arp2/3 complex activity in fission yeast". 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 (PMC) as soon as we are allowed to do so, the application for PMC indexing has been filed. You may be eligible to also deposit your Life Science Alliance article in PMC or PMC Europe yourself, which will then allow others to find out about your work by Pubmed searches right away. Such author-initiated deposition is possible/mandated for work funded by eg NIH, HHMI, ERC, MRC, Cancer Research UK, Telethon, EMBL.

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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,

Andrea Leibfried, PhD

Executive Editor
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