



האוניברסיטה העברית בירושלים
The Hebrew University of Jerusalem

המכון למדעי הצמח וגנטיקה בחקלאות ע"ש רוברט ה. סמית
THE ROBERT H. SMITH INSTITUTE OF PLANT SCIENCES AND GENETICS IN AGRICULTURE



31 March 2014

JoVE Editor

JoVE51652R2

Dear Michelle,

Enclosed please find our revised manuscript entitled: **"Measuring the osmotic water permeability coefficient (Pf) of spherical cells: isolated plant protoplasts as an example"** by Shatil-Cohen et al..

Our revision indeed took us a while, in particular, after we realized we had to revise the P_fFit program – as described in our reply to the reviewers' comments.

The list of changes in the MS appears within "our replies..." document.

Thanks for your patience.

We hope this revision is satisfactory.

Would it be possible to complete the arrangements of the MS for publication (including filming) before the 31st of May – the date of my departure to Australia for 5 months?

Sincerely,

Nava Moran

Prof. Nava Moran, DSc

ת.ד. 12, רחובות 76100

The R.H. Smith Faculty of Agriculture, Food and Environment

טל. 972-8-9489-324

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פרופ' נאוה מורן



-----1st Cover Letter -----

22. Sept. 2013

Dear JoVE Editor,

Enclosed please find our manuscript entitled: **"Measuring the osmotic water permeability coefficient (P_f) of isolated plant protoplasts and frog oocytes"** by Shatil-Cohen et al.

• ***Why this work should be published in JoVE's unique multimedia format***

We believe our method is relatively easy and efficient, more so than other published methods. Once assimilated by a user, it will enhance both data accumulation and analysis, and, hopefully, important results, as well.

Because visual demonstration does not rely on preformed (often mistaken) concepts as does verbal explanation, a video format will help familiarize the 'initiate' with our method much faster than by print.

• ***Author contributions***

Arava Shatil-Cohen designed, performed and analyzed the experiments, wrote the MS.

Hadas Sibony participated in the experiments.

Xavier Draye, contributed the "Protoplast Analyzer" plugin for ImageJ, and its textual description for data analysis.

François Chaumont, a co-developer, with MM and NM of the computerized approach to the determination of P_f based on data from non-instantaneous hypotonic-challenge to protoplasts (Moshelion et al., 2004), participated in MS discussion and writing.

Nava Moran, a co-developer, with MM and FC of the computerized approach to the determination of P_f based on data from non-instantaneous hypotonic-challenge to protoplasts (Moshelion et al., 2004), participated in MS discussion and writing. She is the Corresponding Author for this MS.

Menachem Moshelion, a co-developer, with NM and FC, of the computerized approach to the determination of P_f based on data from non-instantaneous hypotonic-challenge to protoplasts (Moshelion et al., 2004), participated in the design of experiments, MS discussion and writing. He is the project leader.

Prof. Nava Moran, DSc

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- **The JoVE editor** we have been corresponding with is Zhao Chen.

• **List of 6 peer reviewers' names with their institutional affiliation and email address**
(we do not list opposed reviewers)

1. **Christophe Maurel**, CNRS-INRA, maurel@supagro.inra.fr
2. **Maarten J. Chrispeels**, UCSD, mchrispeels@ucsd.edu
3. **Noel Michele Holbrook**, Harvard University, holbrook@oeb.harvard.edu
4. **Per Kjellbom**, Lund University, Per.Kjellbom@biochemistry.lu.se
5. **Simonneau Thierry**, IBIP-INRA, simonnea@supagro.inra.fr
6. **Steve Tyerman**, University of Adelaide, steve.tyerman@adelaide.edu.au

We hope this MS is found suitable for publication in JoVE.

Sincerely,



Nava Moran

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