

A new idea for scientific journals as a further step for science development

Letter to editor

Scientific research has a very noble aim, which is to solve problems and to overcome challenges facing humanity and the universe. In order to achieve this goal, researchers worldwide are in continuous communication through publishing their findings and ideas, and also via discussions with other scientists in seminars, workshops, conferences, etc.^{1,2} The scientist, who usually spends most of their time working in a research laboratory wearing a lab coat and conducting experiments, appears totally far from practical issues when communicating their findings, especially when assisting academic meetings. During such occasions, researchers discuss their brilliant results and present well organized graphs and tables, but mostly, never discussing their experiment struggles, work details, experiment reproducibility tips, etc. Herein, I suggest that scientists would better take a further step during their communication; through sharing their practical experience. I recommend a new type of published papers to achieve this goal.

The number of scientific journals is tremendous and it is continuously rising. There are many academic publishers in different fields of science. Different journals may differ in their author guidelines regarding reference format, their requirements about paper length, etc. Nevertheless, they mostly have the same range of variety for a paper to be published, which would be an original research paper, review paper, opinion, short communication, editorial or other similar forms of publication. All these types are valuable. However, I propose anew type of published papers, and I suggest it to be named journal experiment tips, journal author advice or other names with the same meaning. This type of papers would provide useful advice for the reader about how to fulfill a certain assay or experiment. For instance, if the paper discusses the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide, widely abbreviated as MTT cell viability; the author could share their experience in this assay through writing about MTT reagent preparation steps, which solvent is better for dissolving formazan crystals, how long should the plate be shaken, at what temperature, and what is the better speed of shaking, etc. The author would also share their conclusions learned from their experiments that did not lead to logic or promising results, and about their findings about their failed experiments, and the reasons they found out for that. This idea could also be implemented as a part of the original research published the paper as a footnote or a passage added to experiment description.

This type of publication would be highly auspicious since it allows a deeper communication between researchers through offering the opportunity to exchange practical experience rather than being limited to the presentation of positive results. The experimenter is

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invited to publish a recent type of paper that would allow a highly efficient communication, which provides each researcher with the opportunity to participate in the development of science via sharing their experience with others in laboratories all over the world, and at the same time to read and learn from others' experience. This idea would participate undoubtedly to expedite research development and to save much time of repeating an assay for many times because of the lack of experience or thinking about some questions that could be replied easily through reading papers of this proposed type. Since the final goal of all researchers is to improve science and answer its mysterious questions, I suggest this new type of published papers to achieve this goal through practical experiment tips' exchange between scientists worldwide.

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Conflicts of Interest

The author declares that there is no conflict of interest.

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