

Ways to Improve the Pace of Biological Research

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ABSTRACT

To carry out any research activities in any particular field one need some basic amenities, such as infrastructure, funds and a proper guidance. Same is applicable for Biological research. For carrying out any research the basic of that particular topic should be clear and specified. Biological research can be categorized into two types:

- 1) Basic Research- Involves the study of different living system just for knowledge
- 2) Applied Research- Focus more on the application and utilities for the Mankind

For example researching about the classification of organism in Biology (Botany/Zoology) mostly focus for educational purposes, while researching and studying about different methods which can improve the crop production and yield in Agricultural sector results in large production of crops which can feed a large population of the country. This type of application based research falls in the category of applied research.

So to carry out the research with a good pace the Researcher, Institution, Government and Participating agencies must join hand with each other and take the step side by side.

KEYWORDS: *Biological research, Virology, Writer's cramp, Pandemic*

Introduction

Biology is not a mere subject it's a new world. The more we explore into it the much we acquire. The new scientific era which we are peeping into is somewhat relatable to the much finding and improvement in the biological research. Biological research is the root of new exploration and finding in the 21st Century. The best power of biological research has already been seen in this Covid scenario which changed the world. It is due to the advancement in this branch of Science that we are able to know much about this deadly Pathogen (Virus).

For improving the pace of biological research many fundamental steps to be taken and adhered. Being a student of Biological science as per my perspective research shouldn't be confined to a specified class of peoples (Research Scholars, Scientist, and Academicians) it should be opened for all. Even a Farmer who is ploughing his field in some remote part of the world should have the same accessibility to present his finding and observation to the scientific

world as a researcher sitting in some reputed research organization.

Biological research shouldn't be limited only for students pursuing higher studies it must be implemented from the Grassroots level. Schools must be organizing symposium, seminars and conferences for the students where they should be taught and shown about the researches already being done not only in biological science but in every scientific and sociological field.

The Second way to improve the pace of research is to bring different sectors of society into a single Umbrella, as Agriculture is the backbone of our country India and farmers are the frontline workers. So if we want to do some agriculture based research we must also take help of our farmer friend, as they might be knowing something more fundamental and important which our researcher and scientist may not be.

The third way to improve the Research speed in biological science is to make as much Collaborations

How to cite this paper: Asif Iqbal "Ways to Improve the Pace of Biological Research" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-6 | Issue-2, February 2022, pp.290-291, URL: www.ijtsrd.com/papers/ijtsrd49215.pdf



IJTSRD49215

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as possible with both National and International organization working in biological field.

A Research Scholar doing his PhD from a University must be given the same opportunities and facilities as a PhD student working in some reputed institute and Labs. In research we know financial stability is always a matter of concern as nor the government, the Institute or Universities pay much heed towards this, So If we want that biological Science should be going at a good pace, the entire trio should work together.

The fourth way to improve the pace of biological research is to give all the students coming under biological field the same opportunities and establishment as to a specified branch of peoples, for example if we taking the case of Writer's cramp which is a neurological based disorder and this type of particular disease has not been given much attention in comparison to some other disease such as Gastroenteritis. As stated above about Writer's cramp being a disease we think that it is not of our concern as it is related to disease which should be tackled with person involved in Human health and disease such as Health science professional (Doctors) either pursuing MBBS BHMS or some other human related study. But my point is that it shouldn't be confined to this, as Neurology is a subject which is taught both in Human sciences as well as in Biological sciences such as (B.sc, M.sc, and PhD in Neurosciences). So as biological studies pursuing students we must also be made to work with the health professional as we can learn and discuss different aspect as per our point of view. It is well said that "where two minds meet something new happens".

Biological research pace can be improved by establishing good institutions and labs indulged in such activities at every nook and corner of the world. If taking the example of our country India we have very limited number of labs indulged in research activities of health and diseases, talking about ICMR (Indian Council of Medical Research) we are having a maximum of 30 Institutes which is not suited for this vast countries like India. As on a regular basis we hear about new diseases both Bacterial as well as Viral, which is both dangerous and fatal, but the number of research institute working on their diagnostic and research are very limited, so if we might be having a number of labs this could be of great help in such conditions as in the cases of COVID-19, according to me government along with

the collaborations of Private companies must established labs and research centers at least to every state capitals of our Countries. The next upcoming threat of world are biological warfare where arms and explosives are not physical bombs, guns or canon they are the Viruses, Bacteria, Fungus etc. So if we keep on building new labs and institute it will both protect us at the time of need and new research and innovation will also come out from such premises.

After seeing the Pandemic of Covid-19 the whole world now understands the importance of Life sciences especially the Field of Microbiology, Virology, Molecular biology, Biochemistry. So if labs related to such work activities open outs it will enhance the rhythm of biological research.

India is the country of Ayurveda it is the country where the Great Charaka, Shushruta, Patanjali were born and also we have access of different herbs and medicines which could be obtained from the nature in the form of plants (Root, Shoot, leaves). In spite of having such a vast array of resources we are lacking behind and the reason for this is the lack of good Research institution where the crude hidden behind these natural things could be scientifically explored. Institutions working on plant based research could be open more and more alike NBRI, Lucknow and NIPGR, New Delhi. If more such institutions are opened not only the burden in such existing labs could be lessen also more newer innovative research and ideas could be built.

So at last I would like to conclude that "Biological research is within us the moment we explore it we get it".

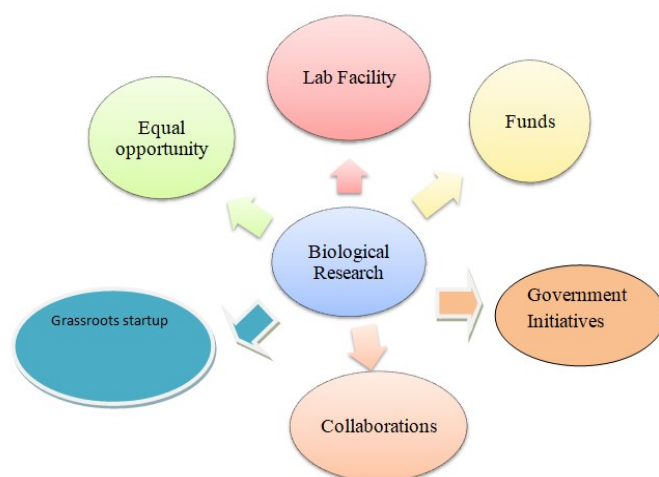


Chart showing: Steps to be adhered to enhance Biological research speed