

Moving toward new directions of innovation and research



This issue of *Chronicles of Young Scientists* covers different areas of research to improve human health. *Chronicles of Young Scientists* was launched this year with an aim to encourage young scientists of every field. We have received many interesting articles in the recent times and our editors and reviewers have done a great job not only by selecting the best of those articles, but also by providing their valuable inputs and directing the authors toward the areas which had scope of improvement. With all their efforts, I am happy to give this issue of *Chronicles of Young Scientists*. This issue has articles ranging from parasitology, dentistry and many pharmaceutical aspects of healthcare industry. I would like to use this opportunity to thank the entire list of authors to consider this journal for their work.

Many new interesting findings including quantum machine^[1], one of the major breakthroughs in the field of physics for this year, discovery of water on Mars, discovery of micro-biome^[2], and finally, the introduction of long awaited first “synthetic cell”^[3] Dr. Crieg Venter addressed his first press conference after discovery of synthetic cell, with his words, “the first self-replicating species, we’ve had on the planet, whose parent is a computer”, promising the new achievements that are going to be accomplished soon. This will open new doors for the discovery of vaccines, drugs and bio-fuels.

Besides these advancements in basic science research, there were many hot topics of arguments in clinical research worldwide. First, I would like to emphasize on the emerging topic of comparative effectiveness.^[4] Comparative effectiveness research is designed to assist in healthcare decisions by providing evidence on the effectiveness, benefits, and harms of different treatment options. The evidence is generated from research studies that compare drugs, medical devices, tests, surgeries, or ways to deliver

health care. This approach is not only beneficial for clinical research but also has ethical aspect attached to it, as it provides some treatment even to the control group. I, personally, like to compare this strategy to using a positive control in the study. Apart from comparative approaches, there was an enormous increase in the computational approach to drug discovery. These approaches lead to new strategies of therapeutic interventions, new drug targets and combinations of both.

In this issue, we have received a remarkable article about bioinformatics and its impact on healthcare industry. This article covers wide area of bioinformatics tools that will be beneficial to our readers. We also have a very interesting article about the increase in research articles in dental science by Indians authors in recent years and the authors have predicted a bright future for Indians in dental research. This article shall prove to be quite encouraging for young budding scientists. Another interesting article with great importance to our health conditions is a review on Iodine number. This article explains the importance of iodine number in maintaining health of patients with Diabetes Mellitus. We are giving you another interesting letter about safe oral sex - another area that is surrounded with lots of myths and needs lots of discussion. The other articles in this issue talk of COX-1 and COX-2 inhibitors, quantitative method validation for first derivative ultraviolet spectrophotometric estimation of Lopinavir and about parasitic prevalence of freshwater prawn in West Bengal, India. All these articles provide lots of important information for the advancement of the medical research.

Once again, I want to congratulate all the authors, reviewers, editors, copy editors and all the people associated with *Chronicles of Young Scientists*. It has been a tough time maintaining the quality of research article. We had to make some tough decisions to improve the quality of the papers and I want to ensure to our readers that we are going to maintain the quality. Please submit your research idea and we can work together with our extraordinary team of internationally renowned reviewers, editors and other staff. Our readership is continuously and consistently increasing in terms of number of downloads and article submission. Lastly, I want to thank Medknow publications for their trust on us and patronize our cause of spreading scientific knowledge. Their help is always an asset for this journal and

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I am looking forward for their continuous support.

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So, I hereby take the pride and honor to present you the new issue of *Chronicles of Young Scientists*. Hope, you will find it interesting and informative and shall use it to provide us with new directions of innovation and research in the coming year.

Thanks,

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