



# Research Insights: Driving Breakthroughs in Medical and Dental Science

Jayaseelan Vijayashree Priyadharsini<sup>1</sup>

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Dear Editor,

This is about the cross-sectional study published by Mokresh et al. in the journal *Medical Science Educator* [1]. The study assessed the knowledge, attitudes, and obstacles toward research among medical students and the experience of medical students participating in research. It was surprising to see that 78.9% of students had a poor level of knowledge regarding research, even though 23.2% of them had previously participated in the research projects. As discussed, the causes of concern were inadequate facilities, time, funding, and the need for proper mentoring. In this context, the Medical and dental institutions should build basic research facilities and infrastructure that supports in-house research. Institutional grants intended for infrastructure development with a special emphasis on developing research facilities can be applied to upgrade the research components. A well-established research facility can be adorned with research faculty who can assist students in designing interdisciplinary research projects. Researchers with a sound knowledge of Genetics, Molecular Biology, Material Science, Regenerative medicine, Biotechnology, and many more domains, in addition to existing subjects such as Anatomy, Physiology, Biochemistry, Microbiology, Pharmacology, and Pathology, can support clinical research by sharing their expertise to design, execute, and interpret research problems.

Biomedical research is a complex subject that demands extensive funding to carry out and validate test results. In connection with this, various regional, national, and international funding agencies release calls for proposals on

specific thrust areas of research at regular intervals to support research endeavors. These proposals are open to undergraduate, postgraduate, research scholars and faculty members, providing ample opportunities for individuals to secure grants for their research projects. The successful acquisition of a grant can inevitably reduce the financial burden and boost the research facilities in the host institution, paving the way for innovative research and novel discoveries. In conclusion, medical and dental institutions should take the initiative to reconstruct their academic curriculum with subjects such as genetics and molecular biology, regenerative medicine, biotechnology, and biomimetics at the undergraduate level so that students can comprehend and appreciate their applications. It's inspiring that a few institutions are already working towards creating a curriculum that blends clinical subjects with research. This futuristic approach of providing blended education can equip healthcare providers with unique skills, leading to exciting career opportunities in their specialization and beyond. I believe this approach can help shape the future of healthcare education and prepare a generation of healthcare professionals well-equipped to take on the challenges of tomorrow.

## Declarations

**Competing Interests** The author declares no competing interests.

## References

- 1 Mokresh ME, Muvaffak E, Kahya M, et al. Knowledge, attitudes, and barriers toward Research among Medical students: a cross-sectional study in Turkey. *Med Sci Educ.* 2024. <https://doi.org/10.1007/s40670-024-01987-0>

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✉ Jayaseelan Vijayashree Priyadharsini  
vijayashreej.sdc@saveetha.com

<sup>1</sup> Clinical Genetics lab, Centre Cellular and Molecular Research (The blue lab), Saveetha Institute of Medical and Technical Sciences [SIMATS], Saveetha Dental College & Hospital, Saveetha University, Poonamallee High Road, 600077 Chennai, Tamil Nadu, India