

# Introduction to Biomedical Research

Biomedical research is the study of human health and disease, aiming to develop new treatments and improve the quality of life. This field offers diverse career paths, from medical research to public health policy. High school students can explore this exciting field through hands-on projects and mentorship opportunities.



By  
Cactidu





# The Scientific Method

1

## Observe

Identify a problem or question to investigate.

2

## Hypothesize

Propose a testable explanation for the observed phenomenon.

3

## Experiment

Design and conduct experiments to test the hypothesis.

# Careers in Biomedical Research

## Clinical Research

Develop and test new drugs, devices, and treatments for human health.

## Epidemiology

Study the patterns, causes, and effects of health and disease in populations.

## Bioengineering

Design and create medical technologies, prosthetics, and artificial organs.



# Presenting Research Findings

1

## Prepare

Organize your research findings, create visuals, and practice your presentation.

2

## Present

Clearly and confidently share your work with an audience, answering questions.

3

## Reflect

Gather feedback and consider how your research could be improved or expanded.



# Funding and Resources for High School Students

## Scholarships

Opportunities for funding to support participation in biomedical research programs.

## Mentorship Programs

Connect with biomedical researchers who can provide guidance and hands-on experience.

## Online Resources

Explore educational content, virtual labs, and research databases for high school students.



# Conclusion and Next Steps

Exploring biomedical research as a high school student can open doors to exciting careers and unlock a deeper understanding of the human body and health. By engaging in hands-on projects, developing research skills, and sharing your findings, you can take the first steps toward a fulfilling future in this dynamic field.

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