

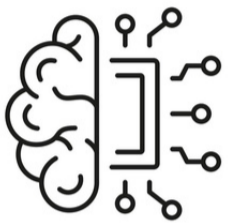


TEL AVIV **YOUTH** UNIVERSITY



TEL AVIV UNIVERSITY
The Lowy International School

TEL AVIV UNIVERSITY INVITES YOU TO A
UNIQUE ONLINE LEARNING EXPERIENCE!



Biotechnology at the Edge: Where Biology, Mind, and Medicine Meet

This course explores the meeting point between Biotechnology, Neuroscience, and Medicine. Students will dive into the inner workings of the human body, learn how biological systems communicate, and see how scientists study complex processes in living organisms. We will discover the tools used to explore cells, organs, and the brain, examine breakthroughs that are reshaping modern medicine, and understand how Artificial Intelligence is changing the way we interpret biological information. Together, we will explore new technologies, consider their impact on humanity, and discuss how the future of health and science is being shaped today.

**No prior knowledge required
just a curious mind!**

The course will take place via Zoom
from 16:00 pm-17:10 pm HKT
on the following dates:

Wednesday, April 15, 2026

Wednesday, April 29, 2026

Wednesday, May 6, 2026

Wednesday, May 13, 2026

Wednesday, May 20, 2026

Course fee: 350 USD / 2750 HKD

i For more information and registration, please contact:
Mrs. Michal Mor Shtorch, CEO, HK Friends of Tel Aviv University Ltd. |
Tel: 91726714 | Email: michalms@tauex.tau.ac.il | Or your school administration



FULL AGENDA:

Lecture 1

Inside the Living Body | BY Dr. MAY COHN

How do scientists see inside the human body without surgery?

In this opening lecture, students discover cutting-edge imaging technologies that allow researchers to observe cells, organs, and even brain activity in real time. Learn how these tools reveal the hidden workings of the healthy and diseased body and open new paths for medical discovery.

Lecture 2

Personalized Medicine | BY Dr. LITAL GILDIN

Your life is about to change. The life of the entire human race is about to change. The 21st century brings innovative and groundbreaking medical technologies that bring science fiction closer to the real world than ever before. We'll discuss some of the technological and scientific developments that characterize medicine in the 21st century, and we will try to analyze their far-reaching impact on the human race: Are we allowed to interfere with the laws of natural selection? Is it possible to transplant 'upgraded' organs? And where do we draw the line between being human and being... or even something else?

Lecture 3

AI Through the Lens of Biology | BY Dr. MAY COHN

How can machines uncover patterns in the human body that even experts can't see?

This lecture explores how artificial intelligence is revolutionizing biological research and medicine. Students discover how AI analyzes medical images, enables earlier and more accurate diagnoses, and predicts disease risk before symptoms appear. The session also reveals how machine learning is opening new frontiers in genetics and brain research, allowing scientists to understand life at a depth never before possible.

Lecture 4

Human Biology 2.0 | BY Dr. MAY COHN

What happens when biology and digital technology merge?

Explore breakthrough technologies that connect the human body to digital systems from brain - computer interfaces to smart wearable devices. We will examine how continuous biological monitoring is transforming healthcare, enhancing our understanding of the brain, and redefining how humans interact with technology in everyday life.

Lecture 5

From Prediction to Prevention | BY Dr. MAY COHN

What if disease could be stopped before it begins?

The final lecture takes students into the data-driven revolution reshaping modern medicine. By combining medical records, imaging, genetics, wearable data, and environmental information, scientists can identify hidden health risks early and act before illness develops. Students explore how predictive models are changing public health strategies and confront the ethical questions of accuracy, fairness, and responsibility in preventive medicine.