

# ILAI RABINOWITZ

[Ilai.Rabinowitz@gmail.com](mailto:Ilai.Rabinowitz@gmail.com) – 617-775-3411

---

## EDUCATION:

Case Western Reserve University, Cleveland, OH - BA Expected May 2028

- **Double Major:** Biochemistry and Philosophy

Newton North High School, Newton, MA - Class of 2024

- **High Honor Student; GPA: 4.0**
- **Prague Summer History Class Trip, Summer 12**
  - *Studied the history of the Holocaust in Prague, Krakow, Lidice, Berlin, and Dresden*

## LAB/RESEARCH EXPERIENCE:

- **CWRU Undergraduate Research Assistant, Dr. Marganit Farago-Tirosh Lab, 2024-2025**
  - *Investigate molecular mechanisms of stress responses triggered by CDK4/6 inhibition, focusing on how cancer cells adapt to acute and chronic stress*
  - *Gained a deeper understanding of tumor progression, therapeutic resistance, and cellular resistance under treatment-induced stress*
  - *Perform western blot analyses and protein quantifications to study expression changes in key stress-related proteins*
  - *Further developed lab skills in pipetting, microscopic imaging, centrifuge, thermal cycler, electrophoresis, and gel casting*
- **Teaching Assistant: CP/ACP/Honors Chemistry, Grade 12**
  - *Selected by NNHS chemistry faculty to assist in teaching two chemistry sections*
  - *Set up, ran, and tested labs before class*
  - *Tutored individual students from both sections*

## COMMUNITY ENGAGEMENT AND ADVOCACY:

- **CWRU Undergraduate Student Government, 2024-2025**
  - **Freshman Representative**
    - *Elected to represent the student body in communications and discussions about campus policy and student concerns with campus administration*
  - **Member, Student Life**
    - *Survey students and staff to constructively address campus food, transportation, and health initiatives based on student feedback*
  - **Member, Diversity and Inclusion**
    - *Collaborate with university administrators and student organizations to implement initiatives to address student concerns and promote inclusive campus culture*
- **Fellow, Maccabee Task Force, CWRU Chapter, 2024-2025**
  - *Organize and lead educational trips to Israel for non-Jewish student leaders to foster informed perspectives, and build connective experiences with Israel*
- **Fellow, Inside the Middle East, Cleveland, OH, Spring 2025**
  - *Selected for educational fellowship on Middle Eastern affairs, featuring expert-led online seminars by Avi Melamed and Arab specialists*
  - *Design and implement campus and community-based projects to promote informed dialogue and enhance understanding of Middle Eastern issues*
- **Club Member, CWRU MedWish, 2024-2025**
  - *Sort, count, and distribute medical devices and humanitarian aid to regions of people in need*
- **Member, Human Rights Council, Grade 12**
  - *Discussed topics of identity, prejudice, and current world issues that affect students within our*

*school community and brainstorm how to move forward and support students during stressful times*

- **Member, Jewish Student Union, Grade 11-12**
  - *Embraced and discussed Judaism and shared our feelings about what it means to be Jewish and Israeli-American*

#### **CAREER-ORIENTED ACTIVITIES:**

- **Club Member, CWRU Emergency Medical Services, 2024-2025**
  - *Support public health initiatives, community engagement, and operational activities to foster campus safety and public health education*
- **Administrative Staff/Volunteer, Holtzman Medical Group Covid Clinic, Newton, MA, Grade 11-12**
  - *Offered a paid position after the first year of volunteering*
  - *Checked in patients and communicated with nurses to run the vaccine clinic efficiently*
- **Volunteer, Newton-Wellesley Hospital Imaging (Lab and Radiology), Newton, MA, Grade 12**
  - *Checked-in patients*
  - *Communicated with nurses and staff to run the department more smoothly*
- **Volunteer, Newton-Wellesley Hospital Pre-Operative Department, Newton, MA, Summer 12**
  - *Secured Pre-op patients' belongings*
  - *Sanitized patient rooms and restocked blankets, gloves, and hand sanitizers for the Pre-op department*
  - *Distributed patient paperwork to nursing staff*
- **Volunteer, Newton-Wellesley Hospital Rehabilitation Services, Newton, MA, Summer 12**
  - *Observed hand, neurologic, and orthopedic physical therapists during patient visits*
  - *Assisted with managing supplies*
  - *Helped patients feel at ease*
- **Volunteer, Newton-Wellesley Hospital Transport, Newton, MA, Grade 11**
  - *Resupplied gowns and other materials in the ICU, Emergency Room, Observation Unit, and patient rooms*
- **Shadow, Gastroenterology/Hepatology Division, Tufts Medical Center, Boston, MA, Grade 11**
  - *Followed Andrew Plaut, MD to observe gastric cancer patient visits*
- **Pediatric and Adult First Aid, AED, and CPR Certified**
  - *Completed certification at the Red Cross clinic and Newton North High School*

#### **SCIENCE & ENGINEERING ACTIVITIES:**

- **Newton North/Newton South High School Ligerbots Robotics Team, Grades 10-12**
  - **Team Competitor, Grades 10-12**
    - *Participate in regional competitions against other teams and their robots*
  - **Build Lead, Grade 11**
    - *Managed a team of students in designing, manufacturing, and assembling an arm mechanism to compete against other robots*
  - **Mechanical Lead, Grade 11**
    - *Planned and led training for 40+ students on the mill, horizontal and vertical band saw, and dremel for manufacturing*
  - **Member, Grades 10-12**
    - *Helped run FIRST LEGO League events for regional students to compete with their own robots to inspire young kids to find a love for STEM*
- **Newton North High School DECA, Grade 11**

- **First Place District Finisher, Start-Up Business Plan**
  - *Innovated parking solutions to help reduce emissions in both rural and urban environments*
- **Newton North Science Team, Grade 9**
  - **Envirothon Competition Participant**
    - *Submitted a project that identified local species of plants*
    - *Proposed best practices to maintain the agricultural surroundings of a simulated public school*

#### **ATHLETIC ACTIVITIES:**

- **Independent Runner, Grades 11-12**
  - *Run independently to maintain fitness after a shoulder injury stopped me from playing tennis*
- **Member, Trail Blazers, Grade 12**
  - *Hiked as a group through trails in the Massachusetts area*
- **JV Tennis Team Member, Newton North High School, Grade 11**
- **Doubles Player, Club Tennis, Brookline Tennis Academy, Grade 11**
  - *Competed against players from other clinics in doubles and singles tournaments*
- **Tennis Coach, Brookline Tennis Academy, Summer 10**
  - *Coached players ages 3-6 just beginning to learn to play tennis*

#### **MUSICAL PURSUITS:**

- **Piano Student, Since age 6**
  - *Private lessons and performances*
  - *Continue to practice independently*

#### **HOBBIES & INTERESTS:**

- Mountain biking
- Astrophotography/photography
- Pickleball

#### **INTERNATIONAL EXPERIENCE/BACKGROUND:**

- **Language Proficiency:** *Hebrew (fluent) and Spanish (conversational)*
- **Dual Citizen:** U.S. and Israel