

# Tisya Dewan

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## EDUCATION

### Imperial College London

2022-25

Undergraduate Degree : Biochemistry, Life Science Degree, 3 years

- **2nd year (72%):**

Structural Biology (68%)

Genes and Genomics (74%)

Bioinformatics, Statistics and Programming (75%)

Protein Science (73%)

Integrative Cell Biology (62%)

Additional module - Climate Change (72%)

Topics in Biotechnology (69%)

Tutored Dissertation: Assessing the role of the members of the Rhomboid Superfamily in ER protein homeostasis. (88%)

- **1st year (66%):**

Biological Chemistry (70%)

Cell Biology (65%)

Enzymes and Metabolism (61%)

Molecular Biology (68%)

### The Shri Ram School Moulisari, India

2015-22

- **Indian School Certificate • Grade 12 • 2022:**

Mathematics-100%, English-98%, Physics-92%, Chemistry-93%, Biology-94%

## INTERNSHIPS AND PROJECTS

### Research Intern • Gatsby Sainsbury Undergraduate Studentship

Summer 2024

Supervisor: Dr. Nick Aldred and Dr. Pallavi Singh

- Engaging in fully funded research focused on developing novel bioadhesives inspired by the unique adhesive properties of mistletoe berries, aiming to address critical capability gaps in current commercial adhesives.
- Acquired proficiency in advanced lab techniques, including plant tissue culturing, protein extraction, plant physiology experiments, and bioinformatics.
- Presented research findings at the Gatsby Network Meeting through a poster presentation, attended by over 80 leading professors, PhD students, and postdoctoral researchers.

### Research Intern • MRC Laboratory of Medical Sciences

Summer 2024

Supervisor: Professor Richard Festenstein

- Fully funded position supporting a master's project in investigating the Damage Suppressor (Dsup) protein as a potential therapeutic investigation and preventive for Multi-drug resistance (MDR) in cancer treatment.
- Conducted COMET assays and FACS sorting to assess the DNA damage response. Participated in cell line preparations by performing transformations, minipreps, and restriction enzyme analysis ensuring accurate and efficient incorporation of Dsup protein. Assisted in MTT assays to evaluate cell viability and proliferation under various treatment conditions.

**Research Intern • Institute of Molecular Science and Engineering, Imperial College London** Summer 2023

Supervisor: Professor Nicholas M Harrison

- Literature review - Evaluated the different recycling methods of nappies and their environmental impact.
- Created a set of criterias to determine which method is sustainable and discussed the areas of improvement in the production of nappies.

**Gatsby Plant Science Education Programme** Summer 2023

- Selected for a 3 day fully funded plant science course at the Sainsbury Laboratory at the University of Cambridge.
- Interacted with various scientists working in the field of plant science.
- Science communication - giving insight into topical research aimed at the general public through the production of videos.

**Work shadowing scheme • Imperial College London** Spring 2023

- Selected to shadow Ms. Steph Pendlebury an Institute Manager at the Institute of Molecular Science and Engineering.
- Drafted a blog and podcast on the topic of composting.
- Interacted with various staff members to understand the workings of the institute.

## **VOLUNTEERING AND RESPONSIBILITIES**

**Secretary of Communication, Imperial Environmental Committee** 2023 - Present

- Elected member of Imperial College London's Environmental Committee, responsible for managing social media and outreach efforts to promote environmental sustainability.
- Actively foster awareness, engagement, and advocacy for environmental initiatives.

**Natural History Museum Volunteer, Urban Nature Project** 2023 - Present

- Conduct workshops at the Natural History Museum in London to educate children about urban nature.
- Developed interactive activities to engage young participants and foster a connection with nature.

**Student Mentor, Imperial College London** 2023 - 24

- Employed to facilitate Peer Assisted Study Skills sessions for first year biochemistry undergraduates.
- Led student-centered interactive discussion sessions focused on study skills.

**Dama Health Ambassador** Winter 2022

- Dama health is using precision science to help females find their contraceptive fit.
- Contributed by recruiting participants for the research study.
- Science communication - wrote a blog on the use of menstrual cups with IUD/IUS.

## **ONLINE COURSES**

**Molecule to Market Virtual Experience Programme** Summer 2023

- Completed online Pfizer course; knowledge of health economics and marketing.
- Learned about the marketing strategies of the pharmaceutical company.

**Biological Research Experience** Spring 2023

- Completed Life Arc online course; gained an understanding on how to analyse data.
- Optimisation of experimental conditions and synthesis of evidence through case studies.

## **ADDITIONAL SKILLS**

**Computing and Statistical skills**

- MS Office - Word, PowerPoint, Excel; Python and R programming.

**Languages**

- Working knowledge of English and Hindi.