

TANUSHA SARMAH

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EDUCATION

German Swiss International School, Hong Kong;
– *International Baccalaureate Diploma Program, Grade 12*;
– *IGCSE Board Examinations, Grade 10*

2012 – Present
2023 – Present
2021 – 2023

STANDARDIZED TESTS

• **SAT Test:** Total – 1540; Math – 790; Reading – 750

2024

ACADEMIC HONORS AND AWARDS

- 45/45 International Baccalaureate (IB) Predicted Grades. Co-topper in school.
- 11 A*s in IGCSE Board Examinations. Co-topper in school
- Young Geographer of the Year Award. Royal Geographical Society – Hong Kong
Category Winner, Upper Secondary – Critical Eye
- United Kingdom Mathematics Trust (UKMT) – Senior Mathematical Challenge. *Gold Certificate*
- United Kingdom Mathematics Trust (UKMT) – Senior Mathematical Challenge. *Silver Certificate*
- Chemistry Olympiad. *Bronze Certificate*
- Hong Kong Specimen Drawing Competition. HK Society of Biology. *Merit Certificate of Honour*
- Hong Kong Brain Bee.

2024
2023
2024
2024
2022, 2023
2024
2022
2024

BIOLOGICAL SCIENCES RESEARCH AND EXPERIENCES

Research:

Gencor Pacific Limited, Hong Kong (www.gencorpacific.com)

2024

With offices in multiple geographies, Gencor combines 6000 year history of Ayurveda (*Indian: Ayur=life; Veda=science*) with science to deliver natural, pure and clinically studied ingredients. Herbal ingredients are studied through authentic peer-reviewed and double-blind controlled clinical trials.

Summer Intern under Mr. R.V.Venkatesh, Managing Director

- Understood the chemical structure of Palmitoylethanolamide, a bioactive lipid mediator belonging to the N-acyl-ethanolamine fatty acid amide family
- Wrote a research report entitled, “Exploring the Potential Future Uses of Palmitoylethanolamide for the Treatment of Cancer.”
- Understood pre-trial data collection and literature review involved in the designing of a study protocol and case record form.
- Evaluated whether Palmitoylethanolamide could be feasibly used in aiding future treatments of cancer

AyurBala Biotechnologies Ltd., Hong Kong (www.ayurbala.hk)

2024

The only Ayurveda specialty brand in Hong Kong. Products are based on ancient Indian medicine system and are branded and developed in Hong Kong under strictly regulated conditions.

Intern under Mr. Virendra Nath, Founder Chairman

- Undertook analysis of ingredient data investigating the effectiveness of each ingredient and its role in the advertised key benefits of the Ayurbala Hair Regenerative Oil.
- Worked as a salesperson, assisting multiple customers a day both in store and in the Hong Kong Convention Centre, and packaging online orders over the course of a week

Learnings and Observations:

The Chinese University of Hong Kong (CUHK), Hong Kong (www.cuhk.edu.hk)

2023

CUHK is a public research university in Hong Kong. Top ranked in Hong Kong and Asia. CUHK's Business School, Law School and Medical School are reputable training grounds for professionals, as well as centres of seminal research.

Laboratory Observation under Dr. Siaw Shi Boon, Research Assistant Professor, Department of Microbiology

- Learned about laboratory tools and research techniques alongside the team working on cancer-causing tumour viruses, with a particular interest in human papillomavirus (HPV).
- Observed how mammalian tissue culturing, basic microscopy, western blotting and enzyme-linked immunosorbent assay (ELISA) assays were performed.

Online Courses:

- **The Science of Stem Cells**, final grade of 90.0% in 10-hour online course, American Museum of Natural History
- **Understanding the Brain: The Neurobiology of Everyday Life** final grade of 94.2% in 27-hour online course, The University of Chicago
- **The History of Medicine : Philosophy, Science, and Psychology**, final grade of 96.3% in 13-hour online course, University of California, Santa Cruz
- **Industrial Biotechnology**, final grade of 88.3% in 11-hour online course, The University of Manchester
- **Introduction to Genetics and Evolution**, final grade of 85.6% in 25-hour online course, Duke University
- **Hacking COVID-19 – Course 1 : Identifying a Deadly Pathogen**, final grade of 100% in 6 hour online course, University of California, San Diego

Summer Programme:

- The University of Hong Kong (HKU)**, Academy for the Talented, Hong Kong (<https://talented.hku.hk/about/about-hku>) 2023
- HKU is an English medium public research university. It is Hong Kong's oldest and number one university with a wide range of academic disciplines. HKU's Academy for the Talented is a selective Academy where selected secondary schools nominate their top-ranking students for the Academy's consideration. It aims to connect outstanding pre-university students with HKU.
- Summer Programme : "HKU Neuroscience Academy for the Talented". 1-week duration. Full-day course to study Neuroscience.
 - Conducted multiple experiments including a sheep brain dissection
 - Attended 10 lectures learning about the biochemistry within neuroscience.

LYMPHOMA - OUTREACH INITIATIVES

- Webpage : Humans of Lymphoma** (<https://humansoflymphoma.wordpress.com/about/>) 2023 – Present
- Created an online portal with focus on Lymphoma, a type of cancer of the lymphatic system.
 - Raised awareness about the disease through real life stories of Lymphoma patients, their families and friends, doctors, nurses and care-givers.
 - Shared data and facts on Lymphoma.
 - Created thoughtful and customized questions for each interview. And interviewed over 10 participants
 - Authenticated stories and get approval from the interviewees before posting.

LEADERSHIP, MENTORING & TUTORING

ACADEMIC YEARS

- **Class Representative** 2022-2024
 - Voted by classmates for 2 consecutive academic years.
 - Active member of the Student Council. Raising awareness to issues concerning the student body such as locker allocation.
 - Managed major events managed are school including Christmas Bazaars, recreational class events and the Year 11 Graduation Dinner.
- **Prefect** 2024
 - Voted by secondary school teachers to act as a representative of the school
 - Completed 970 minutes of services by participating in 5 school events and conducting 4 school tours for prospective future students and parents
- **Academic and Peer Mentoring** 2022-Present
 - Academically mentored 2 students (1 Year 7 for German and 1 Year 10 for IGCSE Chemistry). Set up weekly meetings to assist mentees with concepts
 - Peer mentored 2 students in which weekly meetings were organized in order to navigate their issues relating to mental health
- **Biology ECA Leader** 2023-2024
 - Organized and conducted an experiment every week for a class of 15 students including electrophoresis and DNA extraction
 - Provided a space for younger students to get to explore the subject of biology in further detail in a non-academic setting
- **Project Serotonin ECA Leader** 2022-2023
 - Founded a mental health awareness club in school and worked collaboratively with the school's wellbeing counsellors to plan and organize lessons for a class of 10 students.

"BHARATNATYAM" – INDIAN CLASSICAL DANCE ACHIEVEMENTS

2013 – Present

- Performed a 2-hour long solo repertoire of "Bharatnatyam Arangetram", which is equivalent to a graduation ceremony. Training was mostly attained online from teacher in India. (<https://youtu.be/6o7jEenNwZk>) 2023
- Performed "Bharatnatyam" at Hong Kong's Chinese New Year Night Parade organized by the Hong Kong Tourism Board and televised on multiple national channels. 2024
- Performed "Bharatnatyam" at the Consulate General of India (Hong Kong) at Indian Independence Day celebration. 2023
- Performed at over 5 public events organized by "BEYOND Bollywood", a platform promoting Indian Dance. Solo and group performances. Currently, an acknowledged Bharatnatyam in Hong Kong. 2023 – 2024

GEOGRAPHY PURSUITS

- **Hong Kong Young Geographer of the Year Award 2024** 2024
Category Winner, Upper Secondary – Critical Eye
 - Painted an acrylic piece to demonstrate the brutal impacts of shark finning, as Hong Kong is one of the largest consumers of shark fin and a major hub for its trade and shark fin soup holds cultural significance in Chinese cuisine.
 - Accompanied the painting with a 200-word writeup evaluating the impacts and mitigation strategies associated with shark finning
- **International Baccalaureate (IB) Extended Essay Topic** : "Effects of Climate Change on Coral Reefs in Hawaii" 2024
 - Evaluated the extent to which 4 different mitigation strategies were the best at alleviating the effects of climate change on coral reefs in Hawaii
 - Used an interdisciplinary lens of both geography and biology to fully understand the topic and reach a more reliable conclusion
- **UPC-AC Energy Solar Asia, Sitara Solar Energy Private Ltd, India** (<https://www.acenrenewables.com/project/sitara-solar/>) 2022
Sitara Solar is a 100 megawatt solar project in the desert state of Rajasthan, India. A joint-venture of UPC Solar Asia Pacific and AC Energy is jointly constructing the solar project. UPC Renewables is a leading renewable energy developer in the Asia Pacific region with over 25 years of global experience.
Intern under Mr. Kushal Kumar, Site Manager
 - Understood the process and goal of solar power plants through 5-days of on-site training.
 - Assisted employees at the plant's control room, carrying out various tasks including monitoring changes in weather readings.

EXTRA-CURRICULAR ACTIVITIES

- **Flute** 2017 – Present
 - Passed Association Board of the Royal Schools of Music (ABRSM) Grade 4 Practical Exam for Flute. 2021
 - Passed Association Board of the Royal Schools of Music (ABRSM) Grade 5 Music Theory Exam with distinction. 97.3% marks. 2022
- **Podcast:** “p.s. ur wrong”. Co-hosts and editor with casual yet diverse discussions and topics related to a young audience. 2021 – 2023
- **HKU Academy for the Talented:** Member of this selective Academy under University of Hong Kong. 2021 – Present

COMMUNITY SERVICE

- **Children’s Cancer Foundation (CCF), Hong Kong** (<https://www.ccf.org.hk/en/>) 2021 – Present
A non-governmental organization (NGO) providing caring services for families of young children with cancer in Hong Kong. Have been dedicated to this cause for more than 30 years.
 - Attended sessions to support and mentor over 5 expatriate families, within CCF’s community, fighting childhood cancer. 2021-Present
 - Collaborated with CCF in preparing a talk for local primary school students to raise awareness about cancer and lymphoma. 2021
 - Volunteered for 8 hours over weekend at charity fund-raising event organized by CCF. 2022
 - Raised \$2800 HKD for the CCF through selling handmade crochet items at school’s Christmas Bazaar 2023
 - Wrote an article as well as gave an interview for CCF’s newsletter, sharing about my experiences with CCF’s community. 2024
- **Society for the Prevention of Cruelty to Animals (SPCA), Hong Kong** (www.sPCA.org.hk) 2024
 - Worked as a Volunteer Kennel Keeper. Assisted with daily routine cleaning and disinfection of the kennel area.
 - Assisted employees in recreational activities to keep the dogs adequately stimulated during the day
- **Volunteer Building in Cambodia** 2023
 - Built both a stilted 2-room house and an outdoor toilet over the course of one week for an underprivileged family in Siem Reap

INTERESTS

- Archery
- Food and Cooking
- Reading
- Skincare