**The University of Hong Kong - Biomedical Sciences**

Since freshman year, I have intended to major in Biomedical Sciences. It all kicked off when in grade 10, I was mesmerized by a video of Kurzgesagt – In a Nutshell shared by my Biology teacher, which depicted the friendship between T and B cells. B cells act as a frontier to invade pathogens, but they can get ‘exhausted’ after fighting extensively. Concerning this, T cells invigorate B cells, thereby enabling B cells to return vigorously to the war. This made me think that physiology could teach us important things about life. Due to this, I wanted to dive into the human body by enrolling in the HEAL Clinical Shadowing Program.

This program was held virtually every Wednesday in a month. I signed up in August 2022. In the sessions, we were led by professional doctors. To name a few, Dr. Chris Behringer and Dr. Shivaan Oomrigar. They taught us through videos in which real patients were interviewed about their health condition. I studied a multitude of diseases, such as ulcerative colitis, hemorrhoids, Kawasaki disease, etc. I was even taught how to diagnose with the information received, fill out SOAP, read a CT scan, do a physical exam on adults and infants, and other tasks. The program also widened my knowledge about medications and treatments. For instance, the strep throat culture. It triggered my curiosity of how scientists can identify a group A strep bacteria with just a swab. This attracted me to Biomedical Sciences.

I hope to address the progressiveness of human diseases and their obscure root-causes and treatments. For instance, there are thousands of people who were unable to survive from lung cancer, because it is typically diagnosed at a severe stage and professionals were not able to treat it. Referring to Scientific American and Quanta Magazine – though there are technologies established to help detect and treat the lethal diseases, such as a robotic bronchoscope to know whether one’s lung is cancerous and a vagina on a chip to examine drugs against bacterial vaginosis, still they cannot prevent one from being afflicted with the disease. As a concern to this, I aim to research intensely to understand everything important about various diseases, specifically the cardiovascular, so that people are able to strongly combat them.

Another experience that influenced me to study Biomedical Sciences is when I shadowed a doctor in person. Morning to afternoon, I observed dozens of patients who suffered from neurology-related diseases, including Paresthesia, Parkinson’s Disease, HIV/AIDS, and Dementia. Besides, I understood how the biomedical scientists and the doctor co-worked. The doctor required laboratory and scientific tests to diagnose their patients’ illnesses. For example, the RNA test was carried out by the scientists, which then the results were read by the doctor to diagnose.

In addition, I participated in organizational activities, such as the Student Council. It trained me in social and leadership skills. One of them was when I became a group leader for the new tenth graders in the Student Orientation Program. There my members were obstructive with one another and did not want to get involved in the activities. At first, I failed to solve this. But then, I asked the other group leaders’ advice which told me to do ‘atypical’ activities. This brought me to Mafia, charades, and cheer. These games indeed made them get familiar with each other. Apart from that, I presented our programs in front of a batch of students, discussed and arranged school events with others, and became a host in a Virtual Student Exchange Program, which I never imagined I could do. These skills will absolutely assist me in medicine, because doctors are occasionally subject to do presentations to professors and others and lead a team consisting of nurses and other medical personnels in a surgery, etc.

Once I am referred to as a biomedical scientist, I dream of investigating or creating treatments to cure people and ensuring everyone receives a decent treatment. In my view, it is the irreplaceable sense of achievement. Additionally, I joined a couple of essay competitions – such as SejutaCita National Essay Competition and John Locke Institute Essay Contest – and volunteered as a Head of Content Writer in a youth-driven organization in which I wrote contents about globally trending issues like burnouts, women equality, FOMO, and so on. These activities made me find interest in essaying. Thus, I am elated to publish my blog in which I share my and the public's views revolving around the life of adolescents to adults, while evincing how admirably our body is formed.

The University of Hong Kong, an institution renowned for its Biomedical Sciences field, which assures me that I am cut out for it in Biomedical Sciences. I am certain that the university can help me master this major, because students will gain exposure to a vast range of learning experiences, such as problem-based learning, laboratory activities, researching, etc. HKU also bolsters students’ career in research and development particularly through the Summer Internship Program – which allows students to go on an exchange with leading universal institutions. There they get to work with researchers of the faculty, do laboratory research, and undergo a workplace in Biomedical Sciences outside the university. At last, there are a number of student organizations, one of which is the Biomedical Sciences Society. Through their LinkedIn, I saw that they have copious bonding activities by orientation camps, vacations, etc. I am incredibly excited to join the crowd, share diverse topics with them, and undergo the years of Biomedical Sciences with them. Hence, it is without doubt that The University of Hong Kong could assist me to completely understand the relation of human, health, and disease, figure out appropriate treatments for various diseases, and overall to become a dedicated biomedical scientist.

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