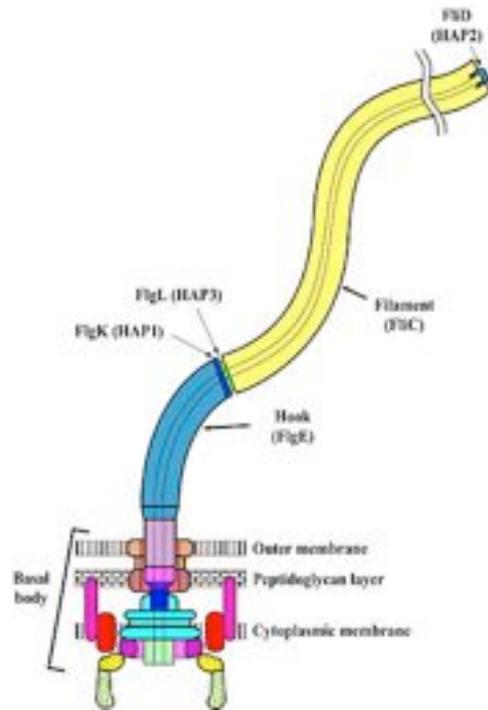


Year 12 Extended Project Abstract

My chosen extended project title is 'Could the Rotary Motor of the Bacterial Flagellum evolved?' I have chosen this topic due to my personal interests in Biochemistry and personal beliefs which do not agree with evolution. However, I am interested in the topic as it seems to me that evolution is one of the only topics where people make an assumption and try to prove it rather than disprove it and prove it at the same time (which *should* be the default position of scientists). This is because a theory may have some parts which are fact and some which are false. This will only be found if a hypothesis is properly examined and then the hypothesis can be changed and modified accordingly. I believe this is important because almost no hypothesis is correct on first proposition.

I began my research by talking to my biology teachers and one of them gave me two microbiology textbooks, which I have looked in for information. I also emailed many universities who kindly replied and gave sent papers, journals and even in one case lecture notes.



I had to email the universities due to the lack of information I found in books. I also was having some trouble understanding exactly what I needed to know to do my project well. That was something one of the University Professors raised as an issue. It was proposed that I might not be able to understand the sources I needed to find and had been directed to due to their complex nature. However, all the other Professors had directed me to the exact place this one Professor had warned me away from. Therefore my contacts at the universities proved to be very confusing in some respects, but useful in helping me to find about more and pointing me in the correct direction. I still hope to meet one of them but I do not know if it will be possible. At the moment I am in the middle of the research, trudging through the sea of informative papers. But I am enjoying it as I find the topic interesting. I need to carry on finding more research as I'm not sure if I will have all the necessary information. Then the project will be mostly down the writing. This will need to be quite analytical of my sources, as due to the nature of the project some of the sources may be heavily bias towards personal opinion.