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One component of my studies was to compare the relative expression of a number of genes. Very little was known about these gene sequences, and I had modified them using CRISPR/Cas9-based genome editing.

These genes were highly AT rich (more than 90%), meaning it was extremely difficult to design primer pairs with optimal binding temperatures.

Based on vast literature review of AT rich genome sequences I was able to design several primer pairs that were feasible. I tested these pairs extensively and was eventually able to use them for the research purpose intended.

The results I generated were extremely interesting and formed a major part of proving one of our hypotheses central to the research project. This was a challenging aspect of my work and it allowed me to demonstrate my abilities in problem-solving, attention to detail, trouble shooting and protocol optimisation.

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Application Laboratory Technician at Sexing Technologies, CH

Dear Mr Robert Singer

During my studies I had the opportunity to work with Plasmodium falciparum malaria parasites and develop a vast array of molecular biology skills and expertise. Whilst mastering the scientific process I developed my skills working in BSL2/2.5 labs with red blood cells and whole patient blood samples. I am very experienced with nucleic acid techniques such as PCR and qPCR, and using qPCR to quantify gene expression levels of various markers. I have vast experience working with fluorescent-labelled proteins for epifluorescence microscopy, large-scale High Content microscopy, as well as counting using flow cytometry.

I will use my genetics research background, as well as experience in flow cytometry to effectively process genetic materials into product, process samples in accordance with strict protocols, followed by efficiently and timeously disseminating results. I will be an asset at ST as I am an active person, interested in how applied science improves genetic technologies.

I bring with me a specific set interpersonal skills, having grown up in a highly diverse country and working in fast-paced international company environments where rapid response to ever-changing situations are needed. I am capable of working well in isolation, or as part of a goal-orientated team. Additionally, I have an affinity, and experience in shift-based work.

I am immediately available, and look forward to discussing my suitability for the position of Lab Technician at ST Switzerland.

Best Regards,

Travis Basson