\$Q LGHDO VDPSOH UZHRVXHODGUEKI ZWUDWWMIFIQIQZWLWK WKH JXLGDQI 5,6(PHQWRU JLYLQJ D JHQHUDO EDFNJURXQG WR IUDPH WK \RX ZRXOG EH LQYHVWLJDWLQJ VWUDWHJLHV IRU REWDLQI \RXU UHVXOWV ZRXOG SURYLGH DQ LPSDFW LQ \RXU ILHOG

## **Research Project Description**

On abroad scale, my research project on hCMMNth Dr. ; focuses on discovering W K H U R O HY 10 URLI R X VS IEIHROWOHXLOO DY UL Q W K HY MUUGIDXONAL COMMERVOL R 10 R W R K HO \ W infection. hCMV enters the ucleus of early myeloid cells and endothelial cells, while regets chromatinized and genetically repressed. This is the called the latent phase Commentative few cycle, where few immediate early genes are expressed, but no viral partic free deferevious research on hCMV reveals that a cellupleortein complex known as PRC2 regulates the chromatinization of the CMV genome. Howeveh CMV somehow circumvents complete repression, as indicated by some expression monediate early gene The hCMV genome is eventually able to rid itself of a closed chromatin structure through unknown processes, resulting in a lytic infection defined by considerable viral particle assembly and cell death. Therefore, it believed that the chromatinization regulation of the of cells that are models for eliminated JARID2 prote**Fros**. cell lines,we will use THP1, NT2D1, and MRC5. THP1 and NT2D1 are cell lines that are an effective model of a latent infection. I will test THP1 and NT2D1 parallel to see which is more efficientratintaining