# Timeline and work that needs to be done with remaining projects:

## Project 1: Identification and inferences that can be drawn from EBNA2 direct and indirect targets

1. EBNA2 targets (genomic and viral genes) PCA
2. Volcano plots
3. Pie charts of biotypes: general distribution of expression pattern in cellular compartments and variation between different biotypes
4. List of tables (direct and indirect targets-nucleus and cytoplasm-genomic and viral)

## Project 2: Gene Block hypothesis and hypothesis testing (computational + wet lab work)

1. EBNA2 target genes are regulated in blocks: cumulative plots for 4 conditions in nucleus and cytoplasm for blocks with size of at-least 3 genes (figure needed) + list of genes (table supplement🡪 Armin has provided links, need to discuss how to include the data in thesis?)
2. TADs+ gene blocks concur together (figure – 4 genes-> SLAMF1, HIVEP3, POU5F1B, LZTFL1)
3. A global picture for these 4 genes showing promoter to promoter, promoter to other connections in their respective gene block.
4. RNA-Seq data analysis showing WT vs promoter\_deleted\_genes:

* Are there changes in TADs now?
* RNA Seq – pending
* DNA MiSeq- pending

## Project 3: Nascent LMP2a and BZLF1 inter-relation

1. LMP2A antibody- does it give background even in negative control?
2. WB after reinduction- without treatment
3. WB after reinduction- with treatment
4. Double staining LMP2A and BZLF1 (same conditions) FACS analysis.

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| MAY |  |  |  |  |  |  |  |
| Week 2 |  |  |  |  |  |  |  |
| Week 3 |  |  |  |  |  |  |  |
| Week 4 |  |  |  |  |  |  |  |
| JUNE |  |  |  |  |  |  |  |
| Week 2 |  |  |  |  |  |  |  |
| Week3 |  |  |  |  |  |  |  |
| Week 4 |  |  |  |  |  |  |  |

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|  | 4 donors and RNA-DNA collection: till now 2 donors covered |
|  | LMP2A project conclusion |
|  | Armin will not be available |