

Date: September 07, 2024

Meeting Title: Discussion with Jhonatan M. Ribeiro on Phage Therapy and Application Development

Attendees: Jhonatan M. Ribeiro and Abdullah

Meeting Points:

- **Current Work:** Jhonatan is not currently working in human medicine but is focused on using phages in veterinary medicine, particularly for chickens. He mentioned that regulatory challenges and authorities' rules are some of the key obstacles they are facing.
- **Challenges in Research:** Jhonatan explained that his research was not completed as planned due to difficulties in developing a machine learning model, which limited the outcomes of his work.
- **Model Validation:** He mentioned a process involving 86 genomes and how they were testing which phages were effective in infecting *E. coli*.
- **Research Papers:** Jhonatan provided two research papers via email for further reading and insights into phage therapy and machine learning.
- **Recommendation to Contact Professor Marata:** Jhonatan advised connecting with Professor Marata from London, noting that she is very helpful and could assist with further research.
- **Application Development Suggestion:** Jhonatan suggested that your research could lead to the development of an application to predict phages or provide phage-related services to companies. This could significantly improve the time efficiency of finding the right phage, reducing the process from a day to an hour.
- **Focus on *E. coli*:** Jhonatan has done a lot of work on *E. coli* genomes and their interaction with phages.
- **Offer to Share Data:** Once you start focusing on developing the phage prediction application, Jhonatan offered to share his research data and findings with you. He asked you to let him know when you begin so he can provide you with the relevant data.