

LMU - Department of chemistry

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## Regarding: Master's Student in Biochemistry and Molecular Biology (Virology)

Kia Ora,

Ko te tumanako kei te pai koe!  
Greetings from the Schneider Lab.

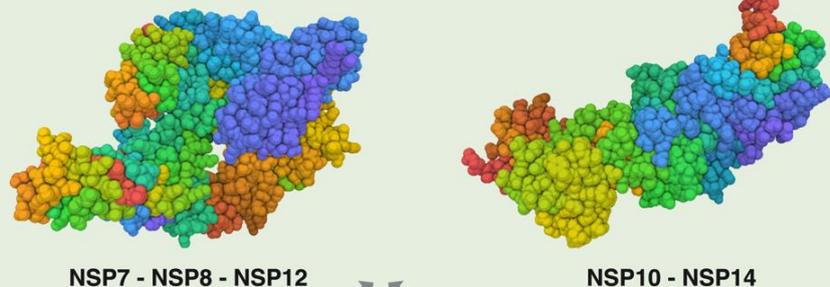
We are currently seeking a motivated master's student to work on understanding the co-infection conditions and the molecular relationship between Influenza and SARS-CoV-2. This project includes a stipend of €300/month (if the student meets the requirements for the fellowship - to be discussed).

Master's students interested in building their thesis in Biochemistry and Molecular Biology (Virology) can contact [bennett.henzeler@cup.lmu.de](mailto:bennett.henzeler@cup.lmu.de) with a motivation letter and CV for further details.

### KNOWN

1. Clinical cases of coinfection
2. Mouse models show decreased immune regulation
3. Impairs neutralizing antibodies
4. No potential for a chimeric virus
5. SARS preinfection elevates ACE2 expression

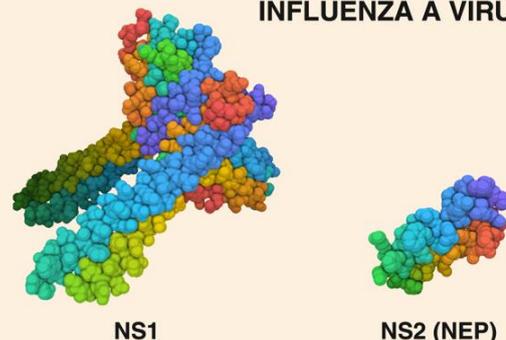
### SARS-CoV2



### RESEARCH QUESTIONS TO ANSWER

1. Simulate NSP proteins
2. Generate SARS-CoV-2 NSP stable cell lines
3. Human codon optimized
4. IAV NS1 and NEP expression plasmid system
5. Interaction between NSPs of IAV and SARS-CoV-2
6. Systemic significance of the interactome or fusion
7. Functional relevance
8. Structural integrity and potential druggable pockets

### INFLUENZA A VIRUS




Dr Henzeler