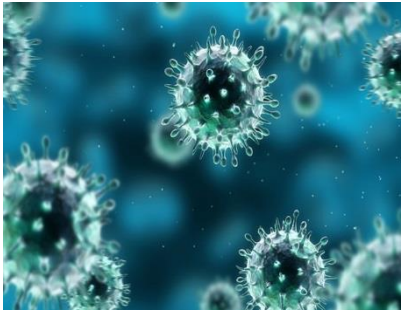


Master Thesis position available on the topic: ***“Understanding Influenza A virus assembly via quantitative fluorescence microscopy”***

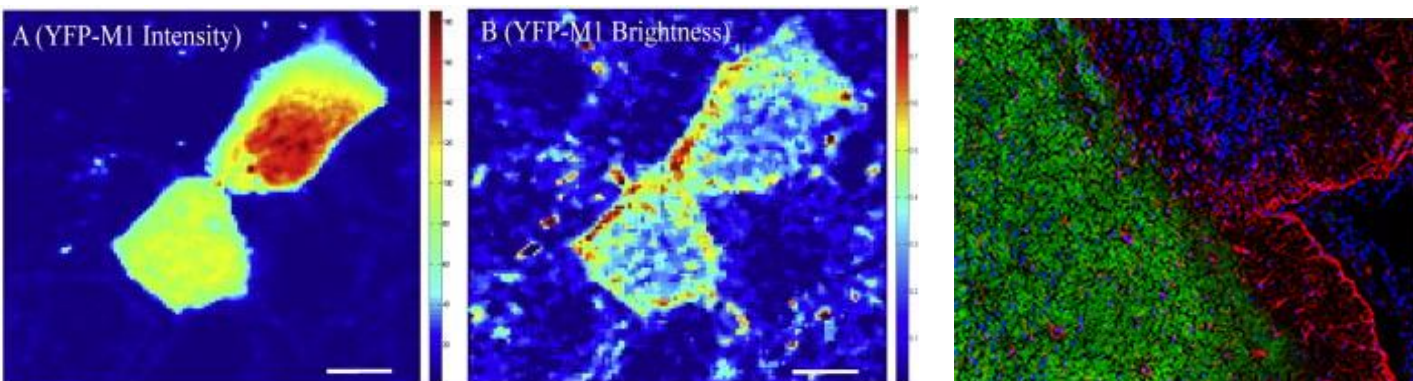
For Biology/Biochemistry students and Physics students with an interest in Biophysics



The Influenza A virus (IV A) is a serious threat to human health. The development of an effective therapeutic approach requires a deep understanding of the molecular mechanisms involved in the virus replication cycle.

The IV A is formed by a lipid envelope, in which several proteins are embedded. Below the envelope, the virus matrix protein 1 (M1) forms a layer, which is needed for new virus formation. Our research group is focused in particular on the study of M1 **oligomerization** and **protein-protein interactions** between M1 and other viral proteins. To this aim, **cutting-edge microscopy techniques** will be applied to perform **investigations directly in single living cells**.

The student will gain expertise in cell culturing and imaging and in all the steps involved in protein expression and visualization, including cloning, purification and immunofluorescence. The development of computational scripts for data analysis might be also part of the work, if desired.



CONTACTS

We will be happy to answer to any questions. *Contact us!*

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