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The overall interest of my research is on molecular biology of flaviviruses. More specifically, the pathogenicity of flaviviruses in relation to their RNA sequences.

Since it is actually the RNA sequence of the virus that changes, and these changes do not always affect protein sequence, I am interested in investigating if RNA sequence heterogeneity among flavivirus isolates (TBE, WNV, Dengue) with different pathogenic properties affects the virulence and function of the viral RNAs, i.e. the ability of the viral RNAs to interact with viral and cellular RNA binding factors, modulate translation efficiency, RNA stability and half-life.

Other researches of highly interest include both basic and translational research on microbial translocation and immune activation in patients with IBD and HIV.

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