Post-doctoral and PhD Student Positions in Virology (Würzburg)

We are seeking both a postdoctoral researcher (Postdoc) and a PhD student to work on herpes simplex virus 1 (HSV-1) latency and reactivation in human neurons using a combination of single cell mRNA sequencing, CRISPR/Cas9 and novel reverse genetics approaches. The positions are for ≥3 years. Employment is based on TV-L E13.

In the framework of the recently funded ERC Consolidator Award DecipherHSV to LD, we aim to decipher novel mechanisms and their functional interplay by which HSV-1 manipulates its host cells throughout the viral life cycle. We will combine time-resolved single cell RNA-seq (scSLAM-seq \(^1\)) with CRISPR/Cas9 to decipher the cellular and viral determinants of HSV-1 latency and reactivation \(^2\) at single cell level. Furthermore, we will pioneer novel screening approaches using advanced reverse virus genetics to decipher the functional importance of novel viral genetic elements \(^3\) in productive infection, latency and reactivation.

We offer an attractive collaborative research environment and encourage the supervision and guidance of PhD, master and bachelor students, in order to build personal teaching and leadership skills.

Applications welcome by e-mail by September 5\(^{th}\) to: lars.doelken@uni-wuerzburg.de

References: