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We are interested in dissecting of host-pathogen interactions. Pathogen especially viruses which are known as oncoviruses such as HBV, HTLV-1 and HIV, as well as those associated with developing autoimmune conditions like EBV and CMV. One of the primary interest of our lab is to understand the fundamental mechanisms of virus neutralization in vivo and the parameters that determine whether a given infection will be established or be cleared by the immune response and events that dictate the outcome of infections in the form of asymptomatic condition or cancer or else autoimmunity.

The second interest of the lab is to understand neural-immune interactions by investigating the role of the immune system in the state of mental illness, furthermore the role of the nervous system in immune responses and inflammation.

Related publications:

1. **Tarokhian H**, Taghadosi M, Rafatpanah H, Rajaei T, Azarpazhooh MR, Valizadeh N, Rezaee SAR: The effect of HTLV-1 virulence factors (HBZ, Tax, proviral load), HLA class I and plasma neopterin on manifestation of HTLV-1 associated myelopathy tropical spastic paraparesis. (Virus research,2017)
2. **Tarokhian H**, Rahimi H, Mosavat A, Shirdel A, Rafatpanah H, Akbarin M, Bari A, Ramezani S, Rezaee SAR: HTLV-1-host interactions on the development of adult T cell leukemia/lymphoma: virus and host gene expressions. (BMC cancer, 2018)
3. Ramezani S, Shirdel A, Rafatpanah H, Akbarin MM, **Tarokhian H**, Rahimi H Bari AJahantigh HR, Rezaee SA: Assessment of HTLV-1 proviral load, LAT, BIM, c-FOS and RAD51 gene expression in adult T cell leukemia/lymphoma. (Medical microbiology and immunology,2017)
4. Mozhgani SH, Jaberi N, Rezaee SA, Bustani R, Jazayeri SM, Akbarin MM, Milani S, **Tarokhian H**, Norouzi M: Evaluation of HTLV-1 HBZ and proviral load, together with host IFN λ3, in pathogenesis of HAM/TSP. (Journal of medical virology, 2017)