



ANUTOSH ROY (ESR7)

Secondment at **King's College London**



From September 2021 to December 2021, I did my secondment of my project, Mechanisms of spinal neuroinflammation and hyperexcitability in models of joint inflammation in TOBeATPAIN network. My main goal was to validate my previous data obtained in University Hospital Jena using another different approach and model during my stay at London. I worked at Jena with *in vivo* recordings from single neurons in rats in order to check the role of different cytokine and mediators and their role in neuroinflammation. Furthermore I did western blot analyses on a microglial cell line and on primary microglial cells to investigate signalling mechanisms. For my secondment at KCL, hosted by Prof. Marzia Malcangio, I have learnt about an arthritis model for pain research termed as KBxN induced arthritis.

Due to COVID-19 related circulars, the working capacity was reduced to a minimum. I have performed Flow Cytometry experiment with mouse spinal cord samples derived from KBxN model at day 5 after induction of the KBxN serum, and also compared the results with control serum to check if the model is helpful to get insight more data that I have already generated in Jena. During my stay, I have learnt to analyse the flow data with FlowJo Software and also the interpretation. I have performed some western blots too during my stay.

Apart from the difficult situation at work, I enjoyed London very much. The city itself is so beautiful and I was amazed with the great museums and galleries. Moreover, it was a nice opportunity to be in touch with other colleagues in London to work with and to share moments with them.



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