

3 months secondment in the Institute of Physiology I, Jena, Germany

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As part of the planned activities included in the Tobeatpain consortium, I undertook a three months secondment in the Institute of Physiology I, Jena, Germany, under the supervision of Dr. Andrea Ebersberger.

In Jena, Dr. Andrea Ebersberger, along with two other colleagues, have mastered the electrophysiological measurements of neurons isolated from murine dorsal root (DRG) ganglia, through the patch clamp technique. In my period here, I have learned to isolate said neurons and used patch clamp to record their action potentials, through different stimulation techniques.

Moreover, we cultured human commercial Schwann cells in their facilities in order to explore the possibilities of recording electrophysiological data in them. We also stimulated the cells with different pro- and anti-inflammatory compounds and tested the influence of the conditioned media on DRG neurons.

Furthermore, with the incredible help of Dr. Christian König, we performed the previously mentioned stimulation experiments in Schwann cells at different timepoints, in order to study the activation of different pathways through Western Blot.

This experienced was enhanced by the great relationships created with the professionals there, with who I shared every day successes and challenges. Moreover, I found the city and environment fascinating and I look forward to come back for future projects and collaborations.



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