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Free floating brain sections for immunofluorescence markers: A technical and scientific approach

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Free floating sections is regarded as a new histological method that can be used for immune fluorescence staining. This method is clearly the best way to go for optimal Ab expression in the tissue. Furthermore, staining of thick sections can later on be used for a confocal microscopical analysis. This presentation covers the technical work pattern of the method starting with the tissue preparation and conservation, threw brain accurate dissection and staining. The method is very suitable for morphometry quantification of histological data, here method of image analysis will be presented and the scientific value will be discussed. Furthermore, examples are presented of projects that had combined the method such as stroke and Parkinson models in lab animals. Finally a discussion will be presented were the advantages of the current method will be pointed compared to the classical immunohistochemistry methods.

Biography

Emmanuel Loeb is a graduate from School of Veterinary Medicine, Utrecht University, Netherlands and a qualified expert, Veterinary Pathologist with published papers. He has 12 years of experience in Experimental Pathology and is constantly improving his skills through continuous profession development. In his work, he takes part in annual professional meetings such as the ESVP and follows The Society of Toxicologic Pathology recommendations. He established new methods in the laboratory such as “free floating sections” for immunofluorescence staining, and developed translation tools from pathological hallmarks to histological end point. He is also teaching pathology at the Veterinary School of Koret (Hebrew University).

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