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Free floating brain sections: An advanced and accurate tool for pre-clinical efficacy histological evaluation

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“Free floating sections” is regarded as a novel histological method that can be used for immune fluorescence staining. This method is clearly the most qualitative tool for optimal Ab expression in the tissue. The usage of the method is changing the position of histology in pre-clinical trials from a mostly safety context, to a potent tool for the efficacy studies. This is the result of a high quality of the immunohistochemistry cross sections and the accuracy of morphometric quantification tools that are often combined with this advanced method. 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 ALS, 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.

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