



16 May 2022

### Job Reference Alejandro Sanz García

Mr. Alejandro Sanz García worked for the startup MOMM Diagnostics GmbH and the School of Life Sciences at the University of Applied Sciences and Arts Northwestern Switzerland (FHNW) from September 2021 to March 2022 as a scientific assistant within the framework of an internship. The scope of his employment was 100%. Mr. Sanz García played a key role in the development of a rapid test for preeclampsia as part of a joint research and development project between the two organizations.

The aim of the project is to develop a new point-of-care diagnostic platform that quantifies specific proteins in the picomolar range within a few minutes. Mr. Sanz García's tasks included the following:

- Characterization of printed ion-sensitive electrodes,
- Optimization of electrochemical readout of lateral flow immunoassays,
- Formulation of a polymer for storage and targeted release of reagents,
- Synthesis of nanomaterials using bioconjugation, and their characterization using dynamic light scattering and enzymatic assays,
- Creating an automated data analysis using R Studio,
- Establishment of protocols for rapid assays,
- Reporting and presentation of results.

Alejandro Sanz García has performed all tasks with great dedication and motivation, continuously exceeding our expectations. We experienced Alejandro as a committed employee who is proactive and thinks for himself. He proved to be absolutely self-reliant. The high quality of his experimental work was also reflected in the planning of experiments, as well as in the communication of the results.

Thanks to his quick comprehension, Mr. Sanz García was able to acquire a sound knowledge in the field of lateral flow immunoassays and electrochemical sensors in a short time. Due to his good analytical skills and systematic way of working, he was able to recognize complex patterns, to judge facts with confidence and to adapt the experimental design of further experiments accordingly.

Alejandro Sanz García knows how to introduce his own ideas and present them clearly. He expresses his opinions openly and constructively and incorporates suggestions from others in his actions. Due to his open-mindedness and willingness to help, he was highly appreciated and recognized by the entire team.

Several milestones in the project were achieved with Mr. Sanz García's involvement. Most notably, the improvement of the analytical sensitivity of our electrochemical lateral flow immunoassay by 20-fold!

Alejandro is leaving us to continue his master studies at the D-BSSE of ETHZ. We thank him for his contribution. We wish him all the best and continued success for the future - and hope to work with him again soon.

A handwritten signature in black ink, appearing to read 'Wipf', with a long horizontal line extending to the left and a vertical line extending downwards to the right.

Mathias Wipf  
CEO, MOMM Diagnostics GmbH