Ultivue

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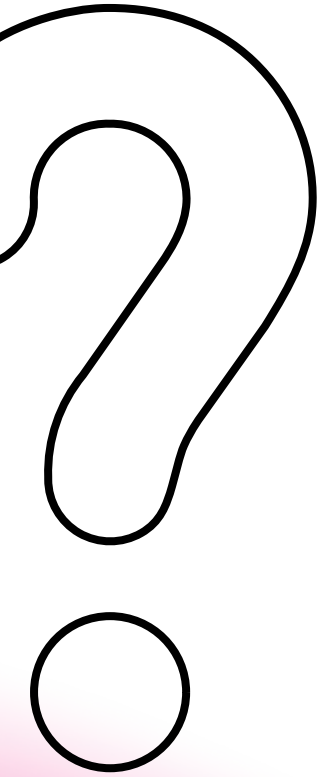


How does the tumor microenvironment change after treatment with a new drug candidate

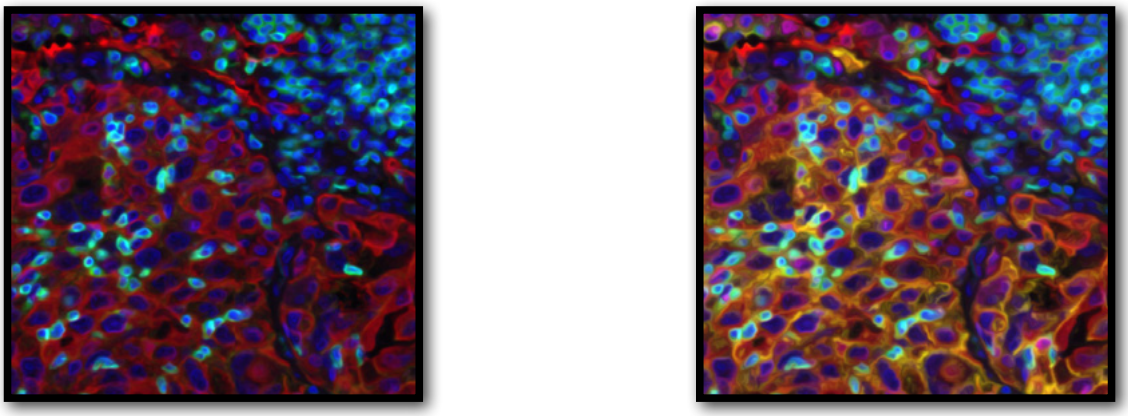
Study Plan overview

Study Plan

Use Ultivues panels to confirm the mode of action for a potential treatment and identify if a set of biomarkers behave as predicted

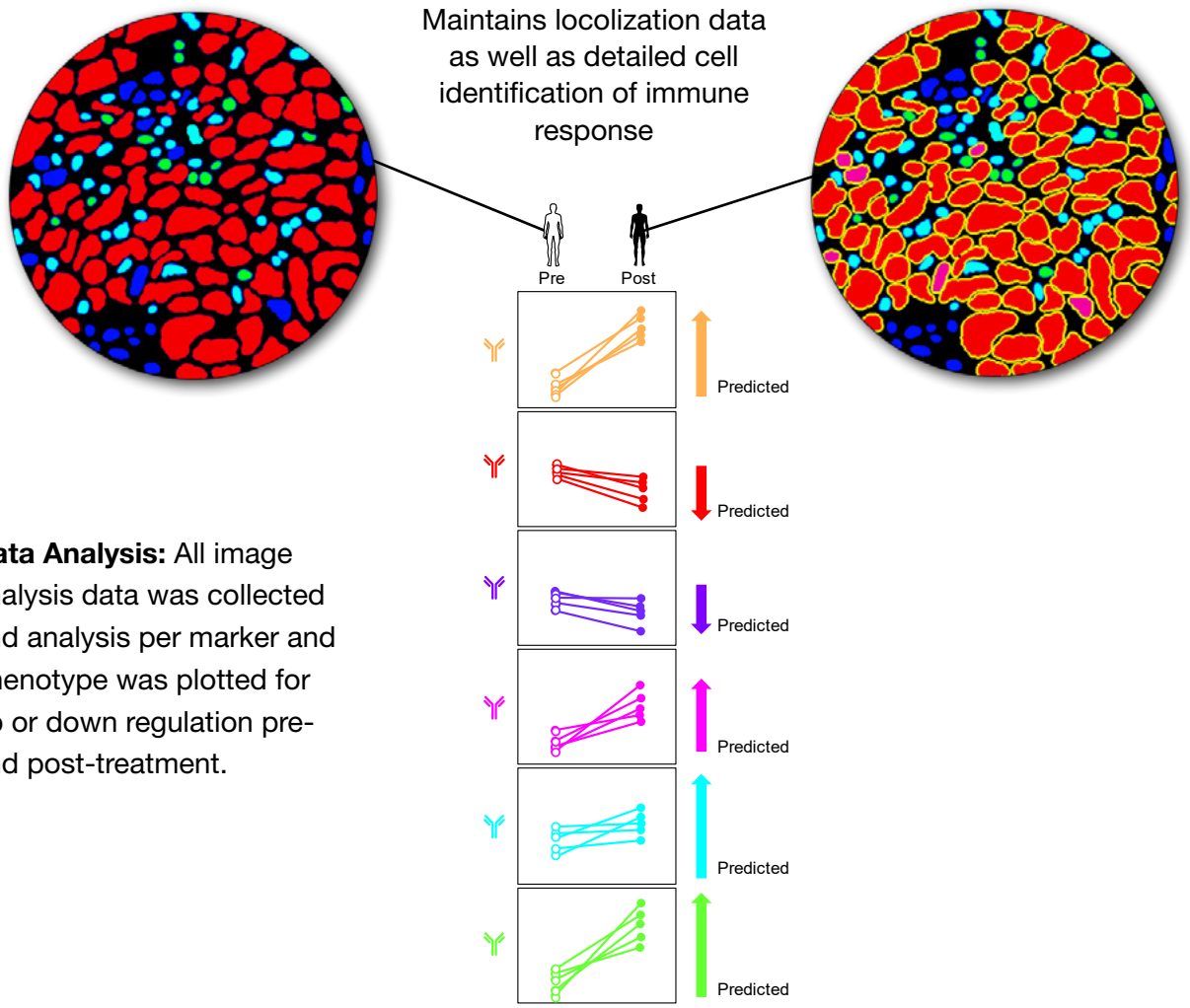
Overview: After the identification and initial work to determine a potential new drug candidate, data from a small Phase 1 study with a low number of patients and multiple drug doses is available. Tumor samples were collected pre-treatment and post-treatment and from earlier studies the drug candidate's expected mode of action is known. Using a pre-defined panel, this study is aimed at determining how the cells in the tumor microenvironment responded to treatment during the trial.

Panel designed to evaluate how the cells in the tumor microenvironment responded to treatment



Staining and imaging: Based on earlier work to determine the biomarkers, an 8-plex staining panel is chosen to investigate the tumor microenviroment on all samples, followed by same-slide H&E staining.

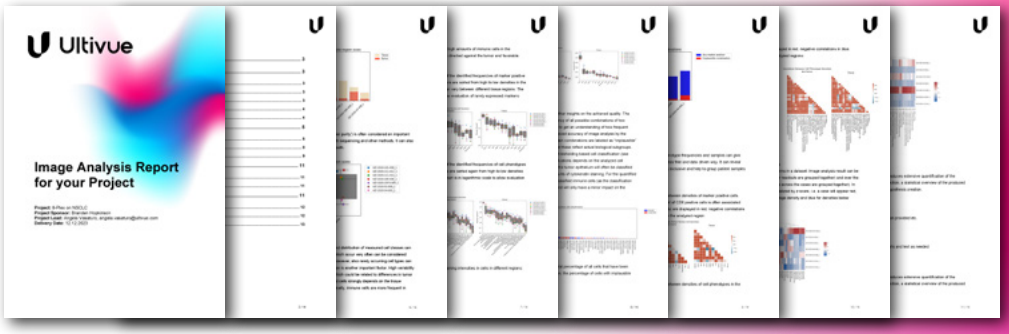
Image analysis: To detect the phenotypes of interest and evaluate the immune response, standard image analysis was applied to all samples with the addition of pathologist review of the results. With the small number of samples and limited tissues available, extra care was taken to maximize the information that could be extracted from each sample.



Data Analysis: All image analysis data was collected and analysis per marker and phenotype was plotted for up or down regulation pre- and post-treatment.

Results delivery

The results were presented in a comprehensive report showing line plots pre- and post-treatment, including any trend information or outliers that might be notable. These results were then discussed with the researchers as well as the in-house pathologist to evaluate whether the results are as expected for the mode of action of the drug candidate.



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Profiling Cancer Biology

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With every solution that we offer, Ultivue is setting the new standard for mIF solutions. Get in touch with our team of experts and find out how we can help you reduce assay development time, assess cell phenotypes and understand spatial relationships across the whole slide.

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