

McSPRinter

In this HTSM2016 project two technologies will be merged to enable the screening of thousands of cells simultaneously for the production quantity and quality of biologicals (proteins, antibodies, fragments, genetically engineered recombinant proteins etc.). Individual cells are seeded into an array of microwells, e.g. 10.000. Each well contains a single cell and the bio-molecules produced and excreted by these single cells is monitored by Surface Plasmon Resonance imaging. The cells of interest can be isolated and expanded. This combined technology not only dramatically increases the number of cells that can be screened but also generates a very early selection and isolation of the cells producing high amounts of a high quality product. The developed technology can accelerate the development and manufacturing of new therapeutic biologicals.

