C5. **Innovative methods for cellular analysis: Imaging Flow Cytometry and Real Time, Label-Free Cellular assays**

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Imaging Flow Cytometers from Amis combine the speed, sensitivity, and phenotyping abilities of flow cytometry with imagery and funcional insights of fluorescence microscopy. Imaging flow cytometers can digitally image millions of cells directly in flow so you can perform high content assays on rare cell populations and quantitate biological phenomena with incredible accuracy.

Signal translocation of Nf-KB, signal colocalization of pDc´s and Phagocytosis assays on Imaging flow cytometers will be shown.The xCEL Ligence Systems from ACEA Biosciences are microelectronic biosensor systems for cell-based assays that provide dynamic, real-time, label-free cellular analysis for a variety of research applications in drug development, toxicology, cancer, regenerative medicine, immunology, and infectious diseases. This Real-Time Cellular-Analysis (RTCA) technology allows researchers to increase productivity and exceed the limits of endpoint analysis by capturing data throughout the entire time course of an experiment and obtaining more physiologically relevant data.