

EVOS is making a difference



In October 2016 we made a grant to purchase the ThermoFisher Scientific EVOS XL Cell Imaging System for the Institute in the Park in Liverpool. We contacted Dr Brian Flanagan at the Institute to ask for an update on his research work and how EVOS was making a difference. This is what he had to say.

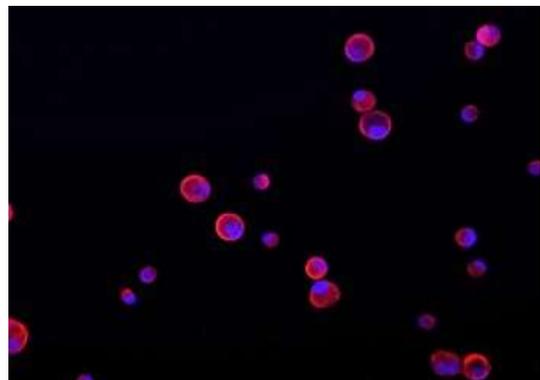
"Having the EVOS imaging system has been a great advantage to us. It's been widely used by both the respiratory and lupus research groups within the labs. The microscopes have enhanced the images we have produced, enabled new techniques to be used and allowed particularly with the screen a more comprehensive conversation between researchers, students and clinician.

We were having problems with an existing high power laser driven microscope system. Jenny Davies, one of my PhD students, in a recent email said it all 'Evos saved the day'.



This image shows the airway type cells growing in the laboratory. The brown spots are cells infected with a respiratory syncytial virus. This pathogen causes bronchiolitis or airway inflammation particularly in young children and the elderly.

Purified natural killer cells part of the bodies defence system pictured here using the evos system. Blue is the nucleus which contains the cells DNA. A red dye on the surface around the cell confirms these are natural killer cells. These cells are involved in protecting from viral infection.



We are currently generating data using the microscopes which will be incorporated into manuscripts for publication next year. We have presented our research that has involved using the imaging system (to confirm protein expression, purity of cells isolated and optimisation of protocols) at 3 international conference in Athens, Milan and Malaga. We also delivered 4 presentations (across both groups) of our data at the British society of immunology conference in Brighton in Dec 2017. "

The trustees are so pleased to learn how this piece of kit is making a difference. We will keep you informed of progress.