

Dear all,

Here is my monthly letter as a delegate for the Environment and Sustainable development at Onk-Pat! The theme for the month is GREEN FLUORESCENCE MICROSCOPY

Every scientist can look for a more sustainable alternative to traditional technologies. An example of how the labs can reduce their environmental impact is the phasing out mercury-based lamps for fluorescence microscopy. LED technology is a cleaner, more efficient and high-performance alternative.

Some facts. A mercury lamp consumes more than 10 times more energy compared to a CoolLED lamp. Mercury-based illuminators are often left switched on all day to ensure availability when required, yet LED microscope lighting can be powered up in no time. Mercury is notoriously toxic and gradually accumulates in tissue as it passes through the food chain, damaging wildlife populations.

We at OnkPat have purchased a CoolLED pE-300 lamp for the microscope in Virus lab in J6:30 at Bioclinicum, as was suggested by C. Rolny, for a cost of 40 000 SEK (mercury lamp costs 2800 SEK). We believe that this green investment is worth it, also since a LED lamp will last more than 60 times longer. If you are purchasing a new microscope, ask supplier about the LED illumination system!

RETHINKING FLUORESCENCE MICROSCOPY LINKS

The [CoolLED pE-300 Series](#) has been registered for the ACT Label since 2018. [The ACT Label](#) stands for **A**ccountability, **C**onsistency and **T**ransparency, and is like an “eco-nutrition label” for lab products. Read on sustainable solutions for microscopy [Sustainability-in-the-Laboratory-Rethinking-Fluorescence-Microscopy.pdf \(cooled.com\)](#)

Check out [My Green Lab - My Green Lab](#) to find out more on sustainable solutions for laboratories.

Our motto: We can make a difference!



I'll be back!

Katja