

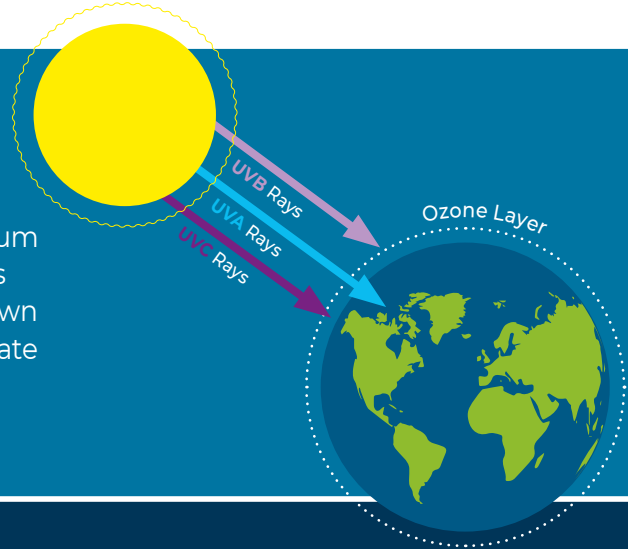
# DID YOU KNOW?

## 7 facts about UV

1

### UV RAYS

UV radiation is part of the electromagnetic spectrum but is invisible to the human eye. There are 3 types of UV light: **UVA**, **UVB** and **UVC**. **UVC** rays are known for their germicidal effects and are used to inactivate bacteria and viruses.



Thomas P. Blunt

### HISTORY

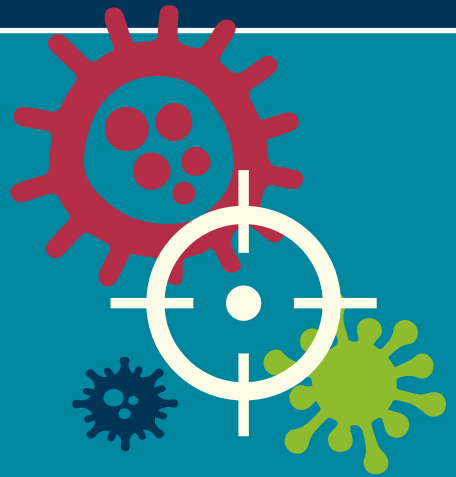
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We have been using light to kill pathogens for more than a century! In the late 19<sup>th</sup> century, Arthur Downes and Thomas P. Blunt published a short note called "The Influence of Light Upon the Development of Bacteria" proving that sunlight could destroy bacteria.

3

### GERMICIDAL EFFECTS

UV lamps have been used since the early 20<sup>th</sup> century to help prevent the propagation of pathogens. We now know that the genetic material within pathogens absorbs UV light and is subjected to UV-induced defects. It is thus inactivated when irradiated sufficiently.



### GREENER OPTION

4

There are several UV sources available to provide the desired germicidal effects. With the rapid improvement in UV LED effectiveness, there is now a greener alternative to the frequently used mercury lamps, and they are quickly gaining traction in several applications.

5

### NO CHEMICALS

Compared to chemical disinfectants, UV radiation has the advantage of not producing direct by-products.



### FUN FACTS

6

Did you know that some animals can see UV light? Here are a few of them: Butterflies, reindeer, some birds and bees.



7

### CAUTION

Exposure to UV light can cause damage to materials, skin and eyes. The UV solutions concept and the recommended precautions must take this into account, while guaranteeing the minimal dose required for the germicidal effect.

Contact us for more information

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