UVC LED Module Proven

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The Effectiveness of Far-Ultraviolet (UVC) Light Prototype Devices with Different Wavelengths on Disinfecting SARS-CoV-2

Jian-Jong Liang; Chun-Che Liao; Chih-Shin Chang; Chih-Yin Lee; Si-Yu Chen; Shao-Bo Huang; Yin-Fu Yeh; Konthoujam James Singh; Hao-Chung Kuo; Yi-Ling Lin; Kuang-Mao Lu

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UVC LED Disinfecting SARS-COV-2 Certification

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Authored by:

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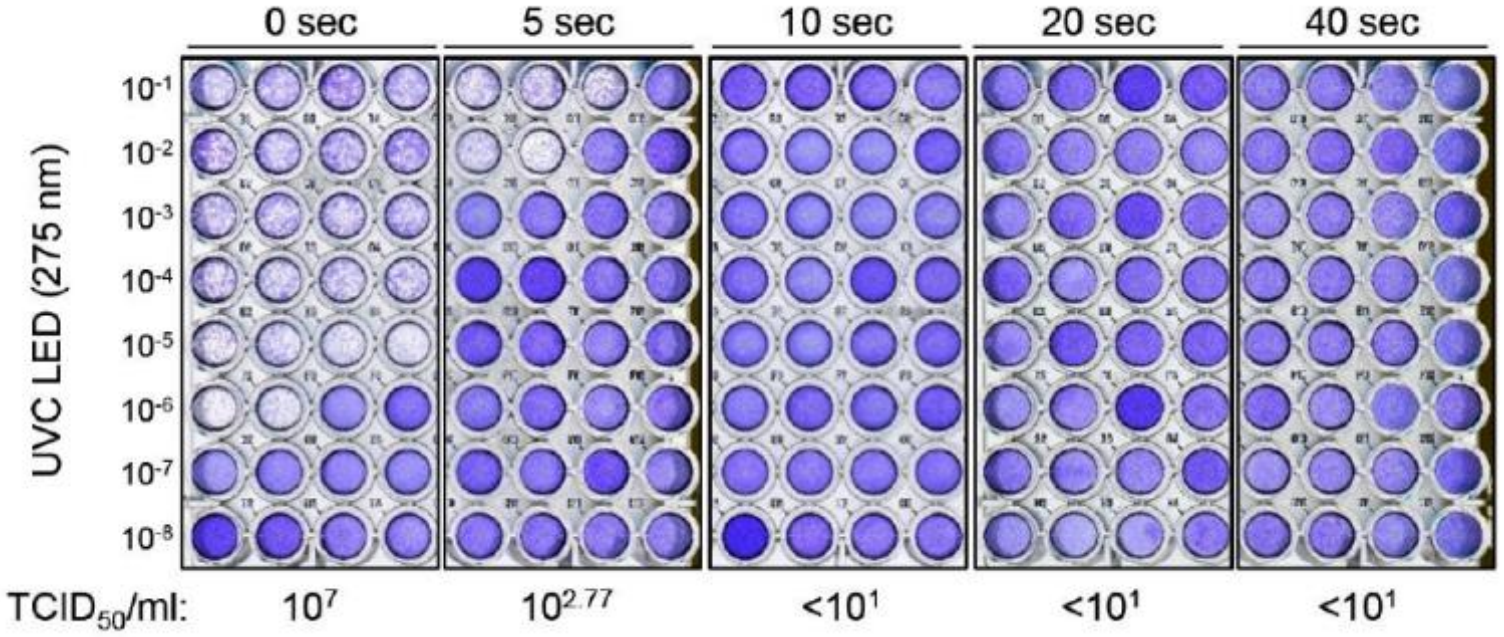
275 nm UVC LED

- **Light purple-** the virus is still alive
- **Dark purple-** the virus has been wiped out



254 nm UVC

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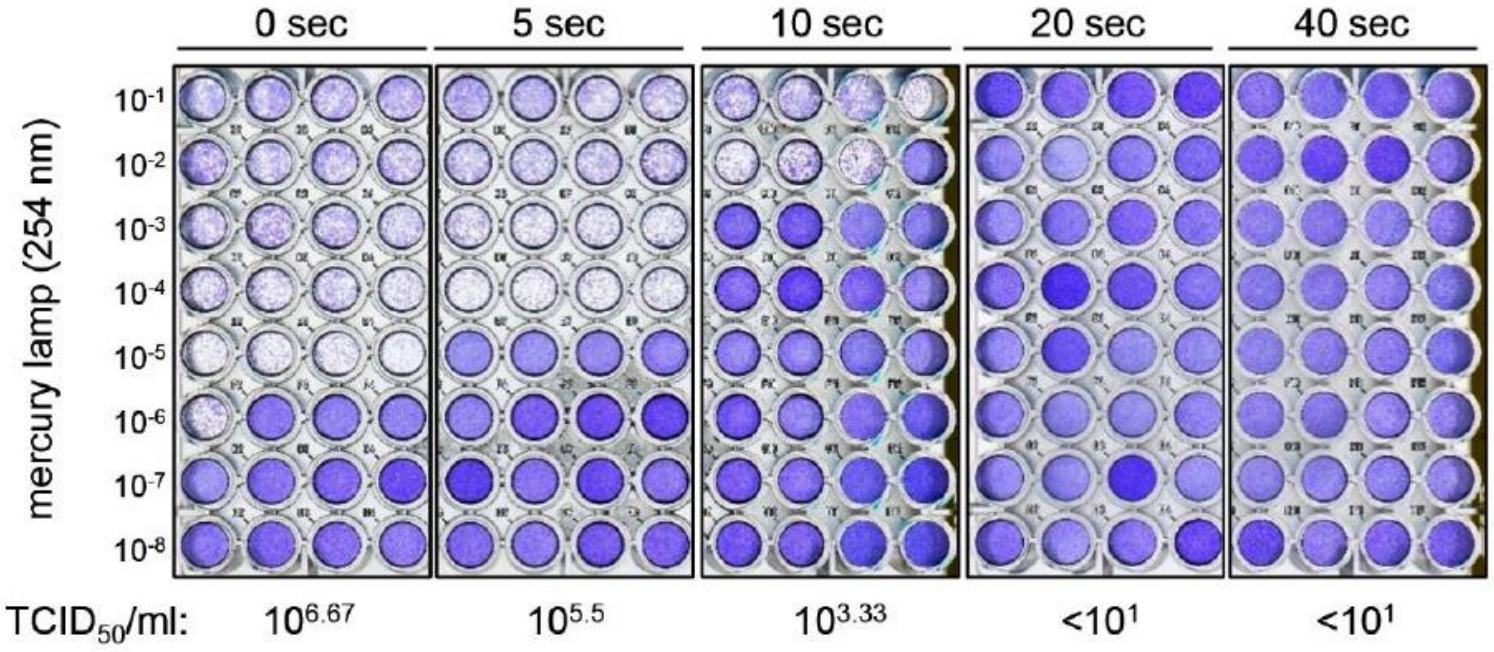

222 nm UVC

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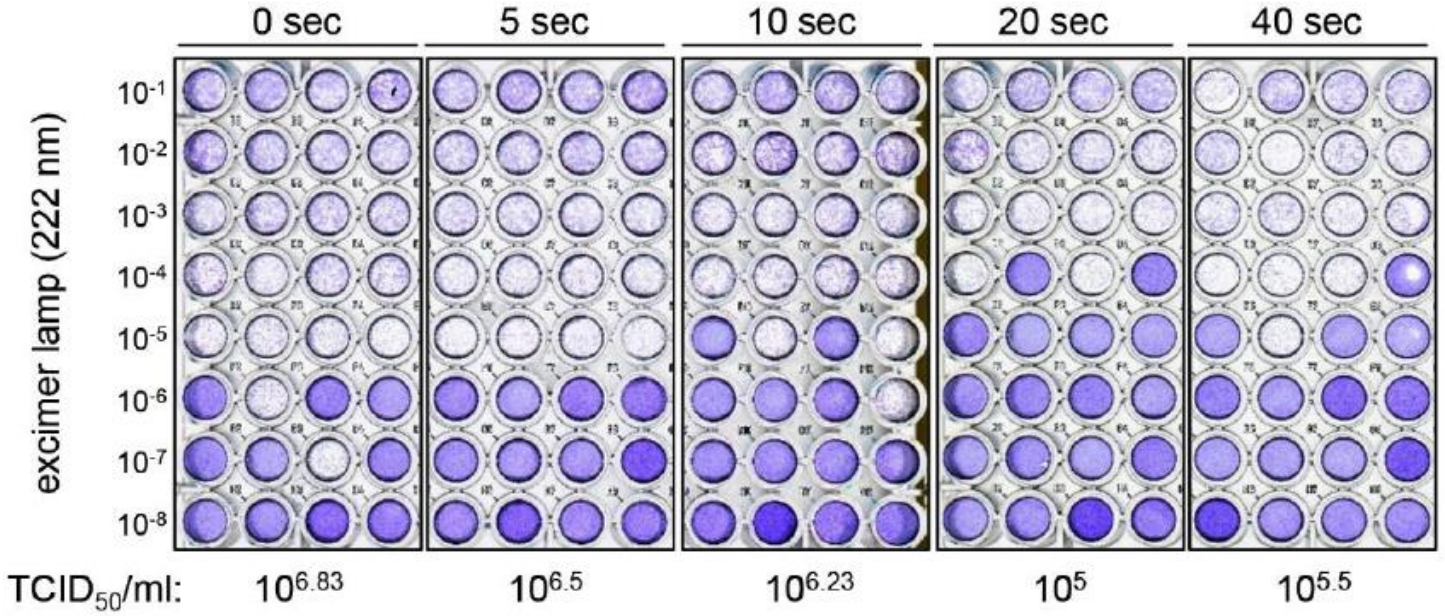

Comparison table

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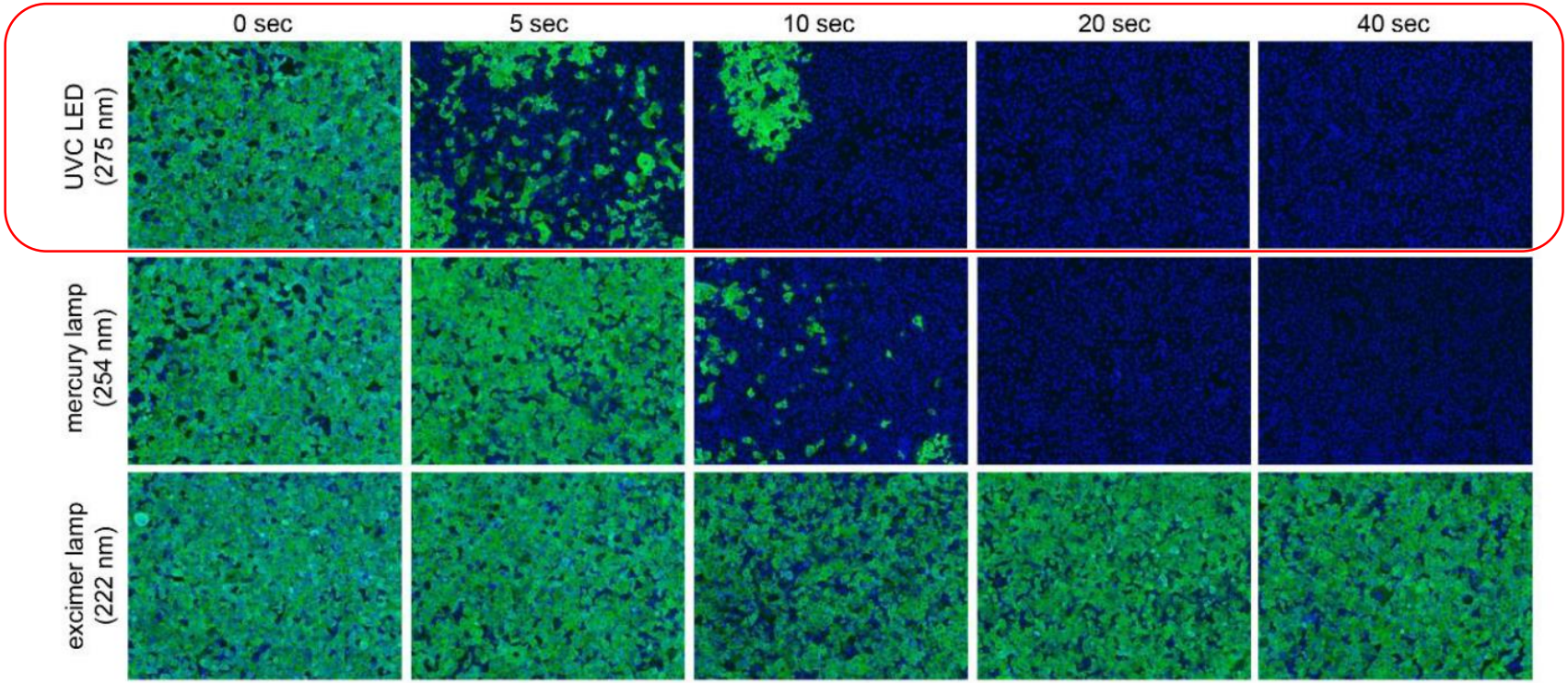

Figure 4. Disinfection efficacy of UVC light devices was determined by immunofluorescent assay. The irradiated samples were added to Vero E6 cells for 1 day incubation. Cells were fixed and immunostained with anti-SARS-CoV-2 N protein antibody and goat anti-human IgG-Alexa Fluor 488 (green). Cell nucleus was stained with DAPI (blue).