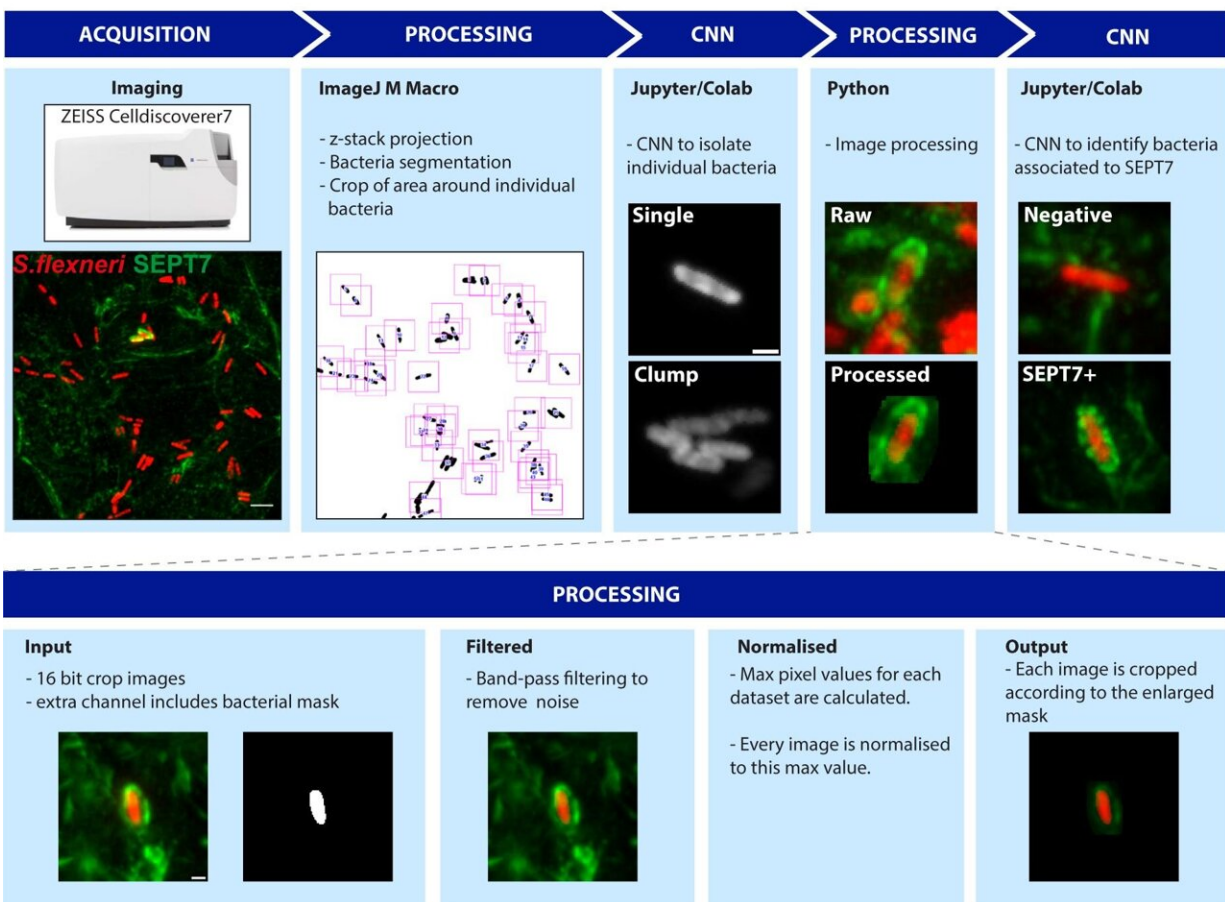


Video: How AI and microscopes can help fight infection

June 5 2024

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Microscopy pipeline to automatically identify SEPT7-S. flexneri interactions.
 Credit: (2024). DOI: 10.7554/eLife.97495.1

Researchers are using AI-powered microscopy to study the bacterium *Shigella*, offering fresh hope in the battle against antimicrobial resistance.

Serge Mostowy and Ana López Jiménez discuss using AI-powered microscopy to study *Shigella*, a [bacterium](#) estimated to have killed 148,000 people in 2019, at an unprecedented scale.

Their [latest research](#), published in the journal *eLife*, demonstrates how this cutting-edge technology is accelerating the potential discovery of new drug targets and treatments for antimicrobial resistant infections.

More information: Ana T. López-Jiménez et al, High-content high-resolution microscopy and deep learning assisted analysis reveals host and bacterial heterogeneity during *Shigella* infection, *eLife* (2024). [DOI: 10.7554/eLife.97495.1](#)

Provided by London School of Hygiene & Tropical Medicine

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