

Personal Bioaerosol Sampler for Rapid Quantification of Bacteria

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Categories:

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Keywords:

- Agriculture
- bacteria quantification
- bioaerosols
- Medical/Health

Researchers at Purdue University have developed a small device which can quantify bacteria in bioaerosols. Unlike current aerosol bacteria detection methods which required an outside lab for analysis, this device can rapidly analyze samples. It is a wearable device that can be easily fitted onto the user. A removable sample collection container can be assayed with a conventional biocounter via ATP bioluminescence.

Advantages:

- Quantifies bacteria in aerosol particles
- Rapid results
- Cost-effective

Potential Applications:

- Monitoring airborne bacteria levels
- Establishment of worker safety standards

People:

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Intellectual Property:

Application Date: September 3, 2019

Type: Utility Patent

Country of Filing: United States

Patent Number: (None)

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