

Bapatla College of Pharmacy Aikyam Team Unveils "RepelAura": A Natural Solution for Mosquito Protection and Respiratory Relief

May 2026



Students from **Bapatla College of Pharmacy (BCOP)** have developed an innovative wellness product called **RepelAura**, a natural mosquito-repellent candle designed to provide therapeutic benefits while keeping pests at bay. The project aims to provide a safer, eco-friendly alternative to traditional chemical-based pest control methods.

Dual-Action Technology

The RepelAura candles utilize a potent blend of natural ingredients, including **eucalyptus, clove, neem, and curry leaf oils**, along with **green camphor** and **cow dung**, which serves as an air purifier. According to the project team, the candle works through a unique two-pronged approach:

- **For Mosquitoes:** The released vapors act on the insect's olfactory receptors, blocking their ability to detect CO₂ and human odor. This causes disorientation and effectively repels the mosquitoes.
- **For Humans:** Inhaling the essential oil vapors provides a cooling sensation and mild bronchodilation, offering rapid relief from **colds, coughs, and nasal congestion**.

Overcoming Traditional Hazards

The project addresses significant drawbacks of conventional repellents, noting that **mosquito coils** produce irritating smoke and pose fire hazards, while **chemical sprays** and **creams** can cause headaches, allergies, and skin irritation. In contrast, RepelAura is a **cost-effective, portable, and non-toxic** solution that requires no direct skin application.

Wellness and Therapeutic Benefits

Beyond pest control, the candles are designed for **aromatherapy**, helping to relieve mild headaches and create a calming atmosphere. Key active components like **eucalyptol** and **eugenol** were specifically selected for their ability to penetrate mucous membranes and provide relief from respiratory distress.

The BCOP team describes the project as a versatile innovation suitable for both indoor and outdoor use, summarizing it as a product that "protects, calms, and promotes wellness".

Links

[Project presentation](#)

[Project video](#)

Aikyam Team

- P. Meghana Devi
- Ch. Joshna
- D. Naga Purnima Gayathri
- T. Angeleena Living Stone
- G. Vennela
- I.V.N. Sri Harsha
- P. Sai Nadh
- T. Amani Krishna
- Jooitha Poornima
- M. Reshma
- M. Jahnavi

Aikyam Facilitators

- P Sri Devi
- R Venkata Krishna