

**Field deployable measurement of aerosolized brevetoxins from *Karenia brevis* using colorimetric immunoassay**

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Sea spray aerosol is produced by breaking waves and bursting bubbles in coastal environments. Dr. Jang's research team (Environmental Engineering Sciences), via the collaborative work with Dr. Laughinghouse (Agronomy department) launches the development of new immunoassays based on nanotechnology to measure the quantity of toxins in aerosolized *K. Brevis* algae (red tide). The resulting immunoassay will apply to produce the model for predicting the longevity of aerosolized algal toxins by employing a state-of-the-art technology, the Atmospheric Photochemical Outdoor Reactor (UF-APHOR) at the University of Florida and investigate airborne algal toxins in fields.