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Showcasing research on an *ex vivo* trachea-chip from Professor Yuliang Xie's laboratory, Roy J. Carver Department of Biomedical Engineering, College of Engineering, University of Iowa, Iowa, USA.

Dynamic measurement of airway surface liquid volume with an *ex vivo* trachea-chip

Drs. Yuliang Xie, Paul B. McCray, Jr., and their colleagues incorporated a piece of porcine tracheal explant with a micro-machined device (referred to as "*ex vivo* trachea-chip") to understand the dynamic properties of ASL volume regulation. The *ex vivo* trachea-chip method allows real-time assessment of airway physiology with intact anatomic structures, environmental control, high-resolution, and enhanced experimental throughput.





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