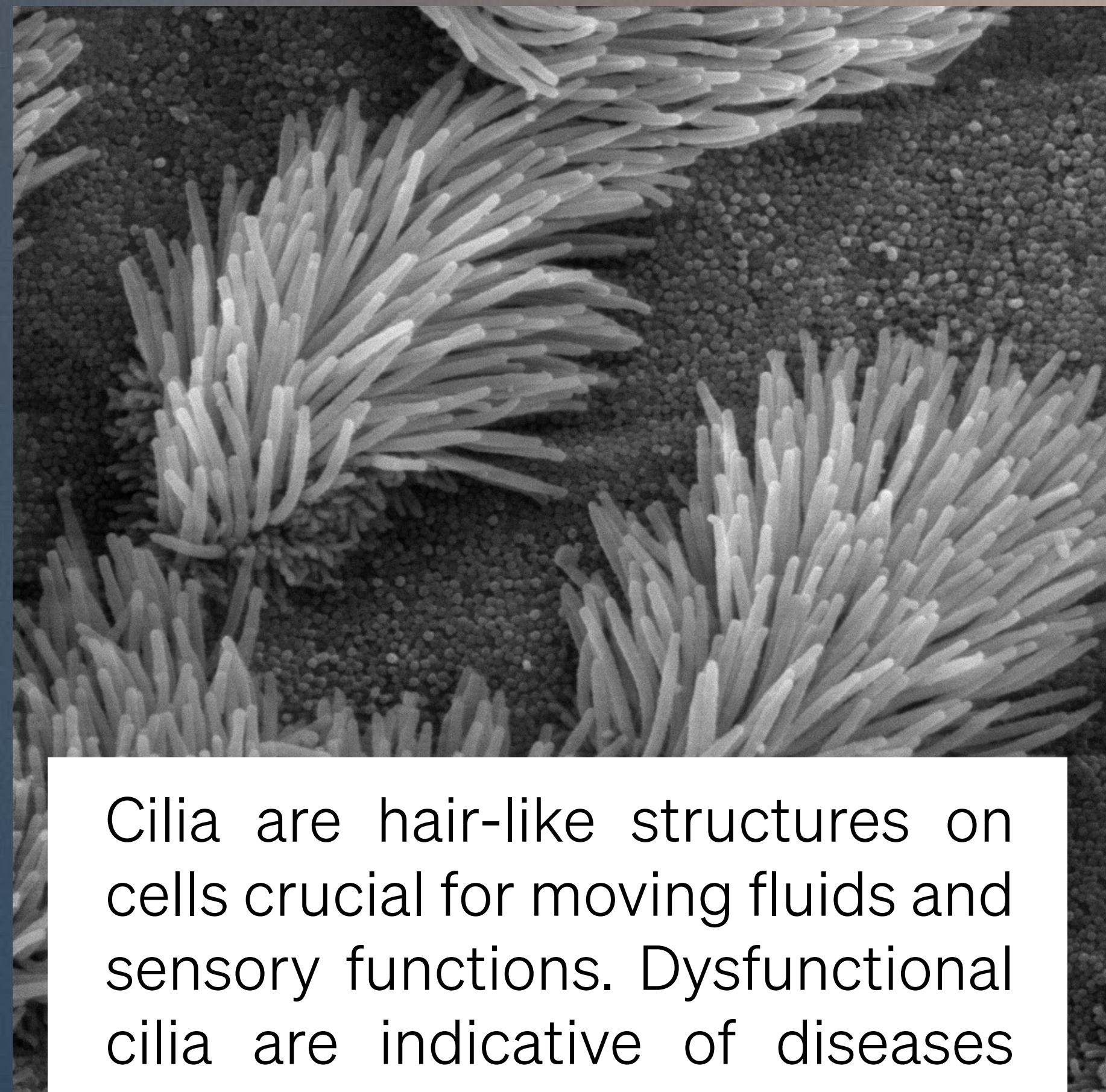


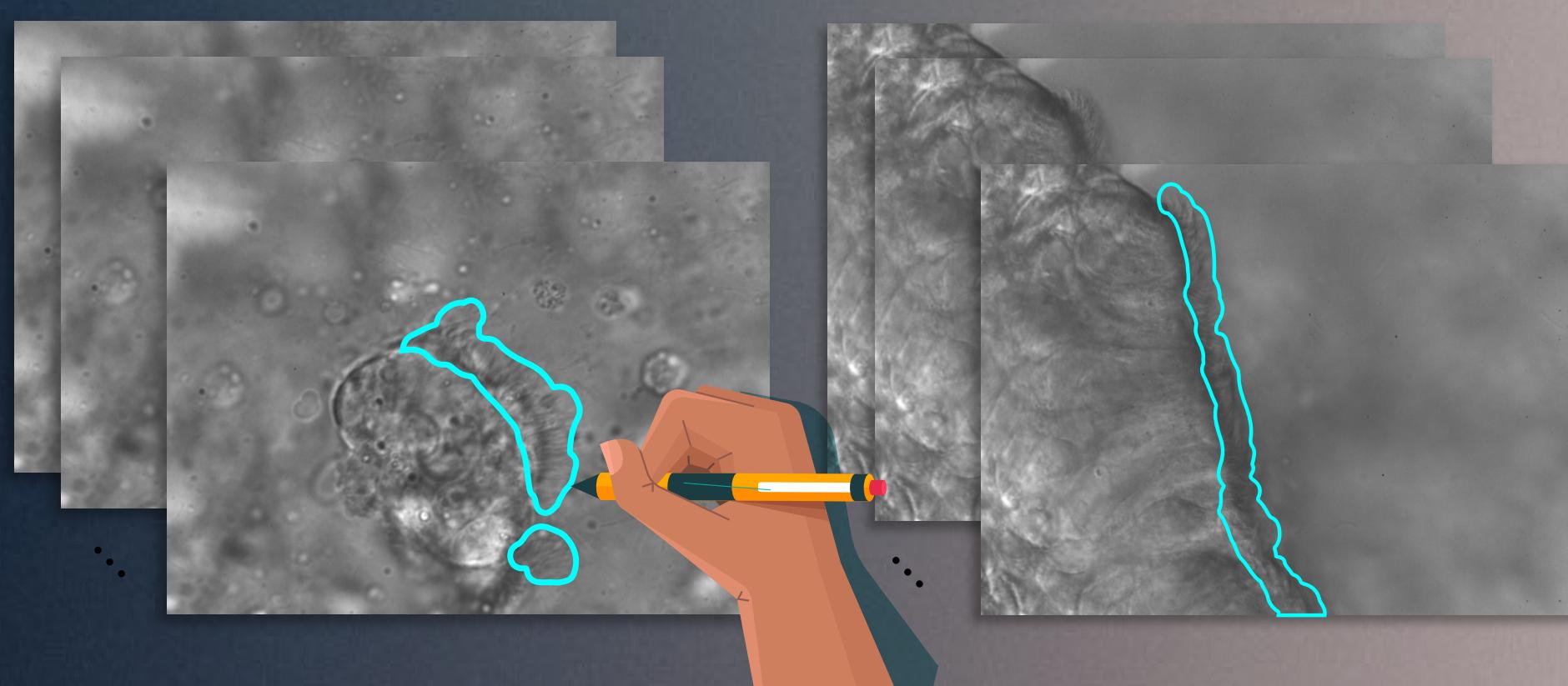
Training a Supervised Cilia Segmentation Model from Self-Supervision

Seyed Alireza Vaezi, Shannon Quinn

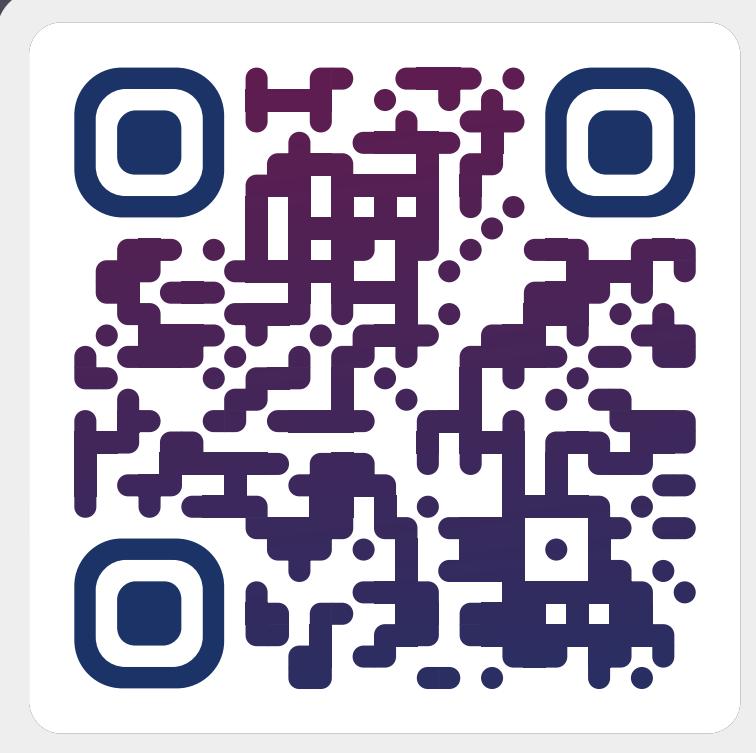
University of Georgia



Cilia are hair-like structures on cells crucial for moving fluids and sensory functions. Dysfunctional cilia are indicative of diseases that can disrupt organs such as the lungs and kidneys. Understanding cilia behavior is essential in diagnosing and treating such diseases.



Manually annotating ciliary regions is a costly, time-consuming, and error-prone task.



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