

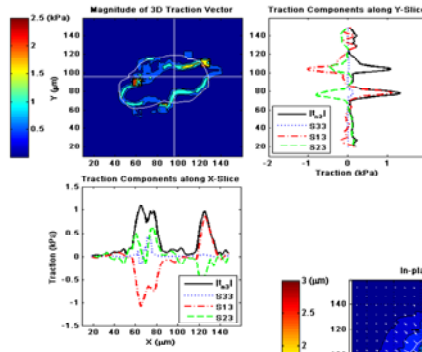
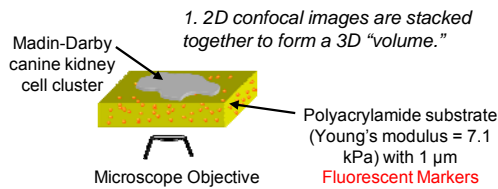
# IRG 2 Highlight

## Quantifying 3D Traction Forces of Epithelial Cell Clusters

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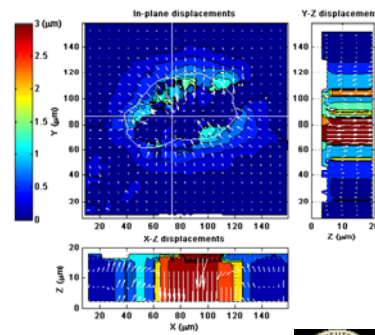


When cells assemble together in a cluster, they apply force to each other. The way in which cells signal each other with and respond to forces is not well understood. Therefore, we study the traction forces cells apply to the substrate beneath them. The results show exterior cells apply tractions to the substrate that are an order of magnitude larger than the tractions the interior cells apply.



3. The displacements are used to calculate the traction force the cells apply to the substrate.

2. The corresponding displacements in the volume are calculated using a digital volume correlation (DVC) algorithm.



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