**Bio-Visualization, Imaging and Simulation Technology Center (BioVIS)** 

Dedicated to biology research and development of advanced visualization, imaging and simulation/computation technologies to support the objectives of NASA Life Sciences and Fundamental Space Biology Programs

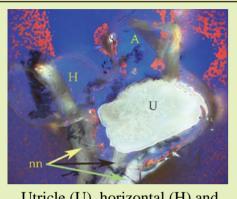


Image Guided Intervention workshop/May 13-14 2004/Washington DC

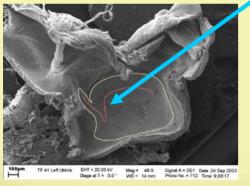


## **Structure and Function of Vestibular Otolith Organs**

## Ames Research Center • BioVIS Technology Center • Space Life Sciences Research Branch

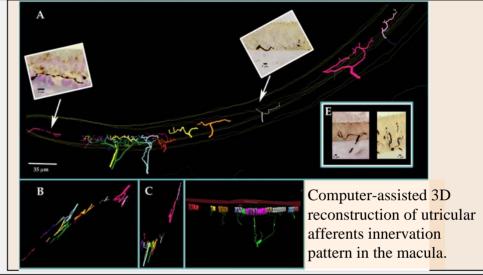


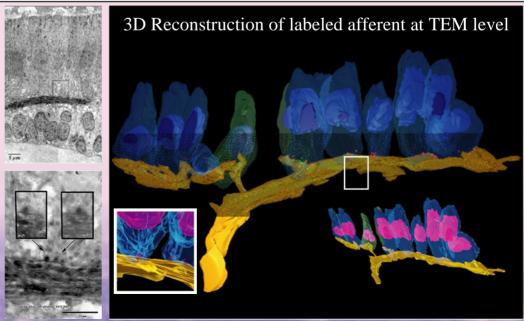
Utricle (U), horizontal (H) and anterior canal (A) cristae, and the afferent nerve supply (nn)



Arrows point along axis of shortest stereocilia towards the kinocilium

Hair Cell Morphological Polarization on Macula

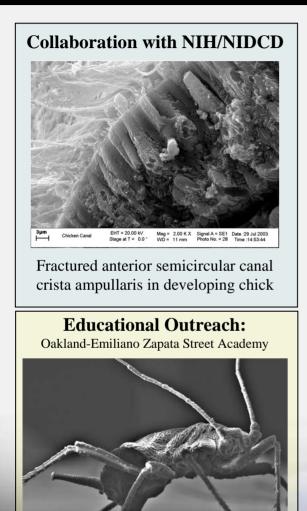






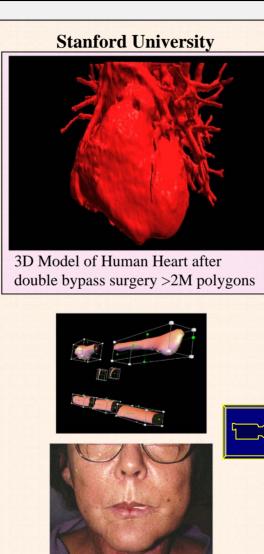
## **Remote Scanning Electron Microscopy Facility and Collaborations**

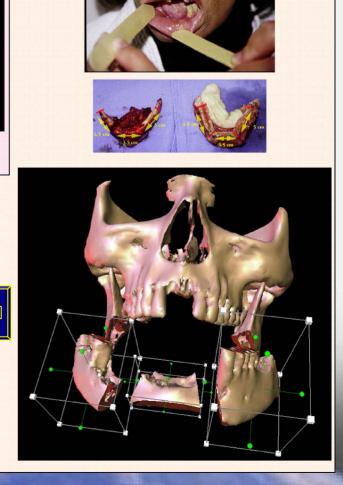
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Pollen vectors - aphid

Mag = 93 X EHT = 20.00 kV Date :8 Apr 200-



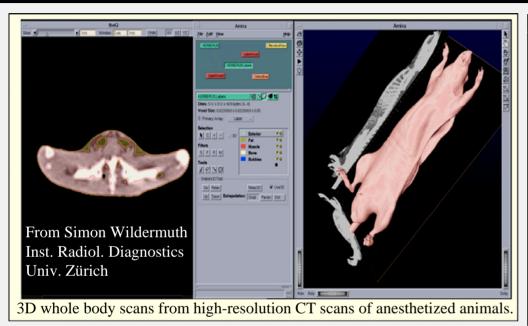


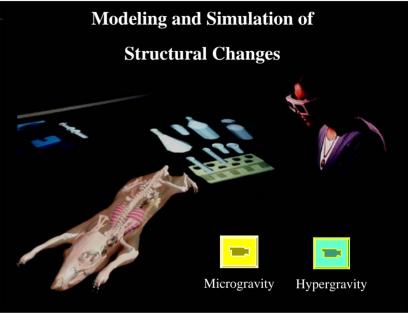
Mandibular reconstruction



## **NASA Digital Animal Project**

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Virtual GloveboX Project: Provide an immersive, reach-in, and distributed virtual environment simulation system For procedure development and astronaut training to enhance and speed time-to-flight for biology experiments and realistic on-orbit training/refresher opportunities to ISS crew

