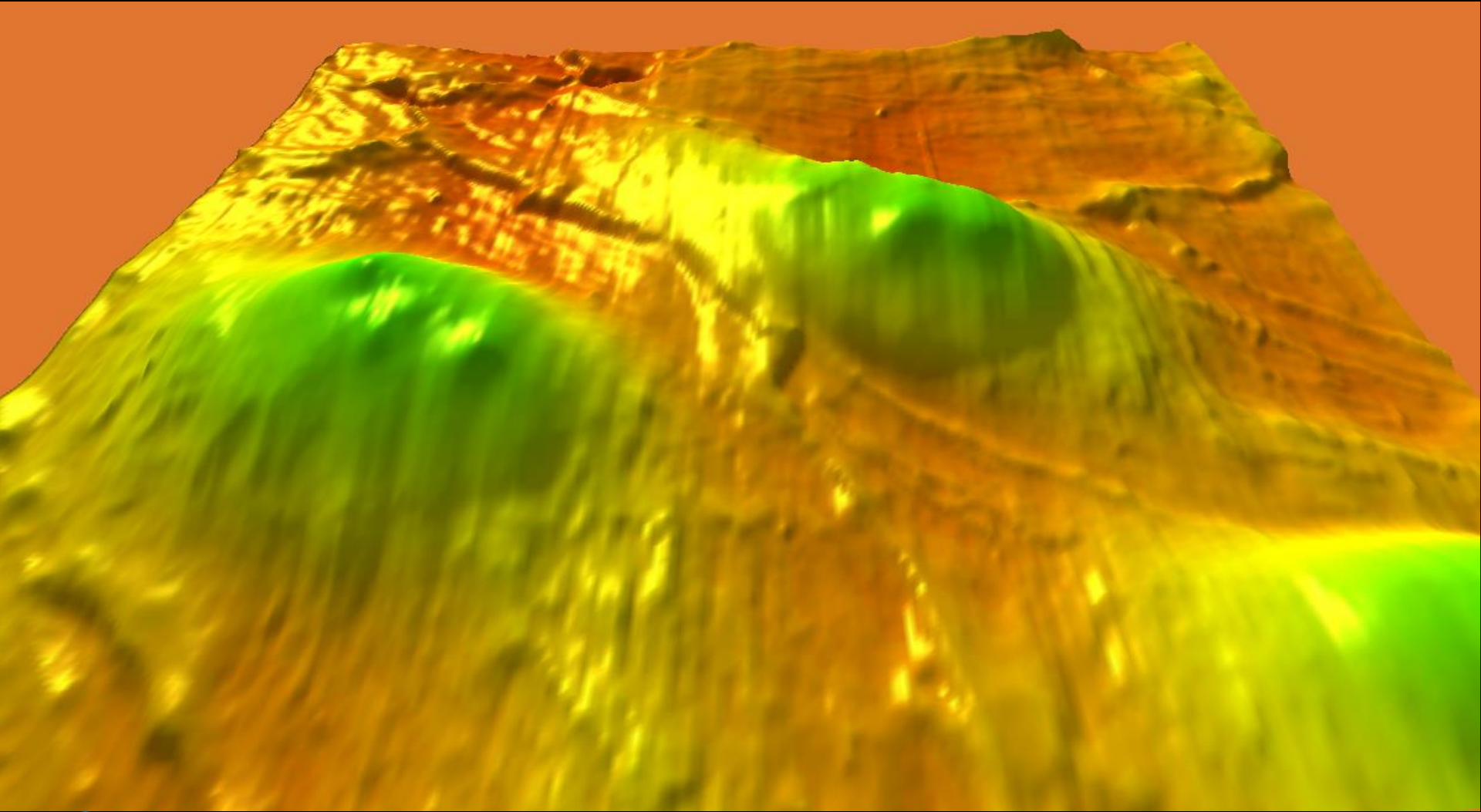


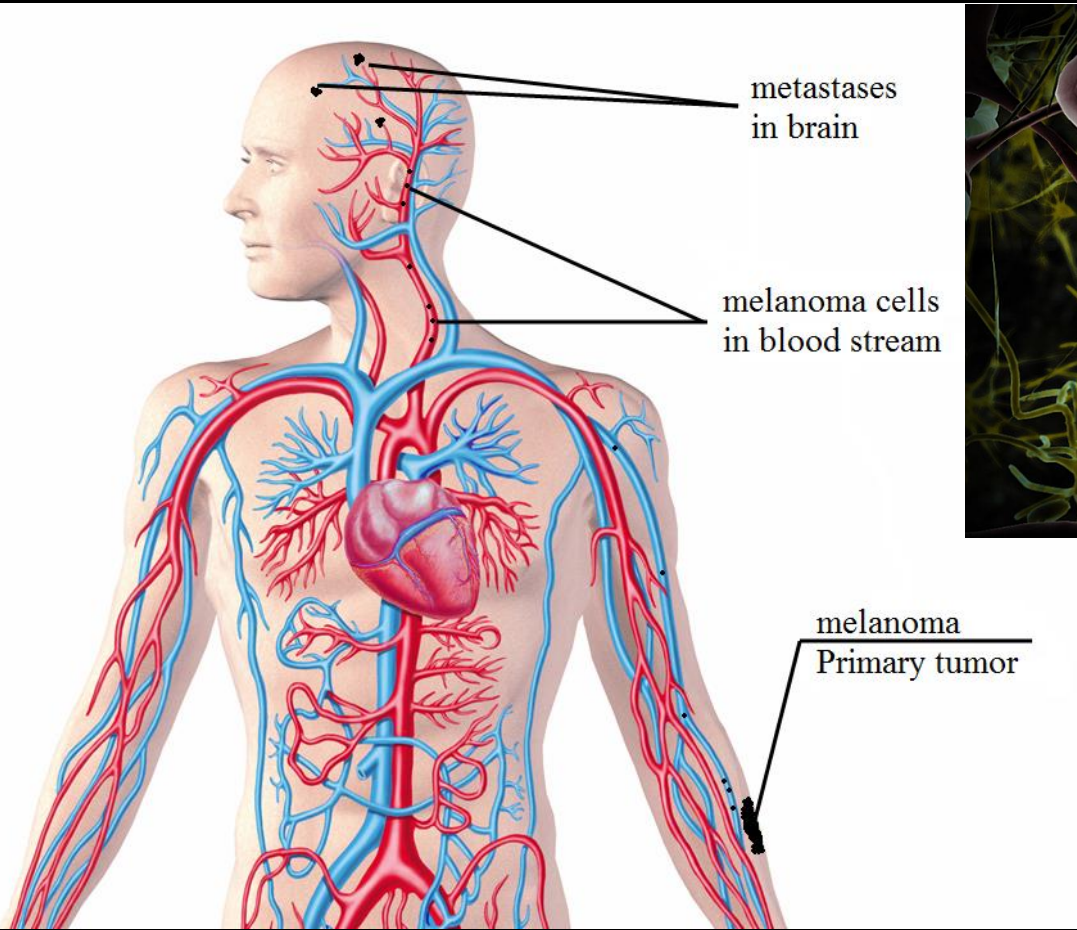
# Membrane tethers reshape intercellular de-adhesion dynamics

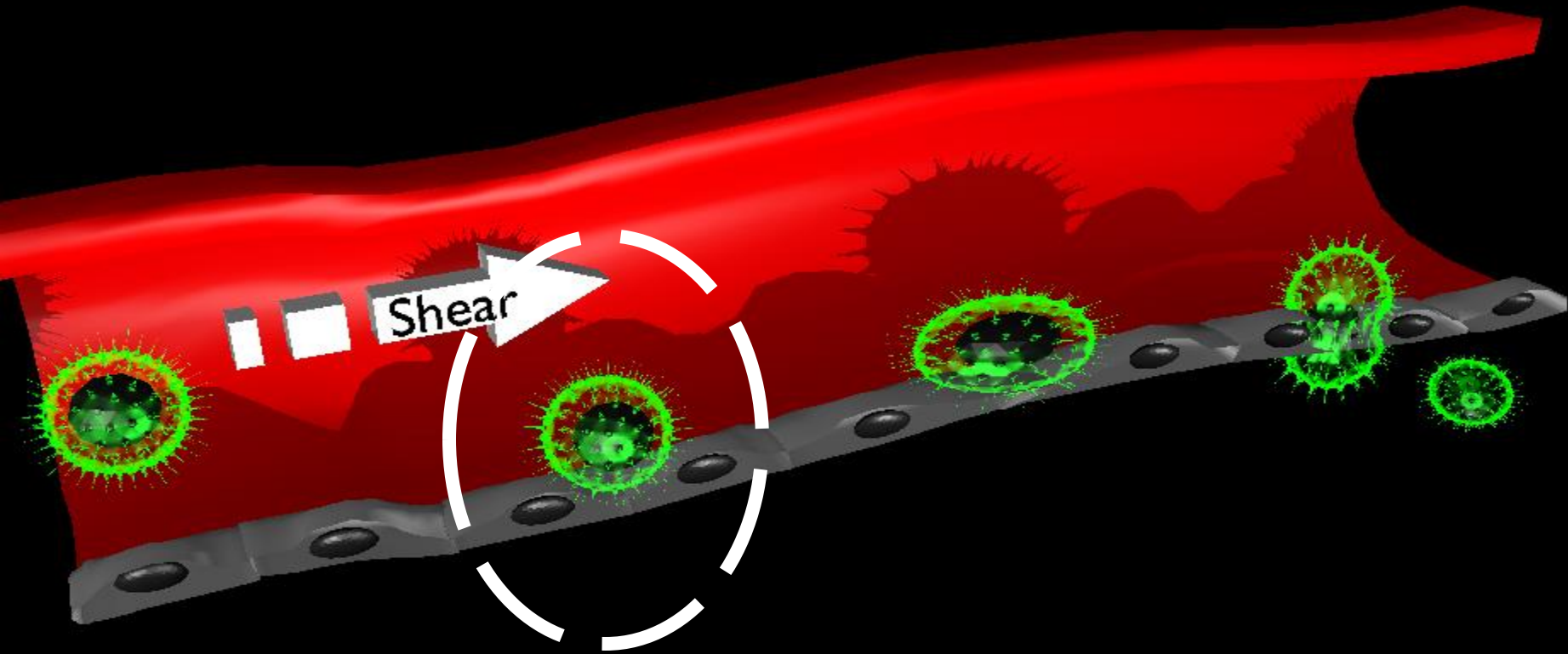


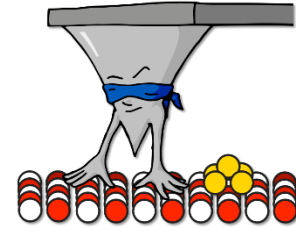
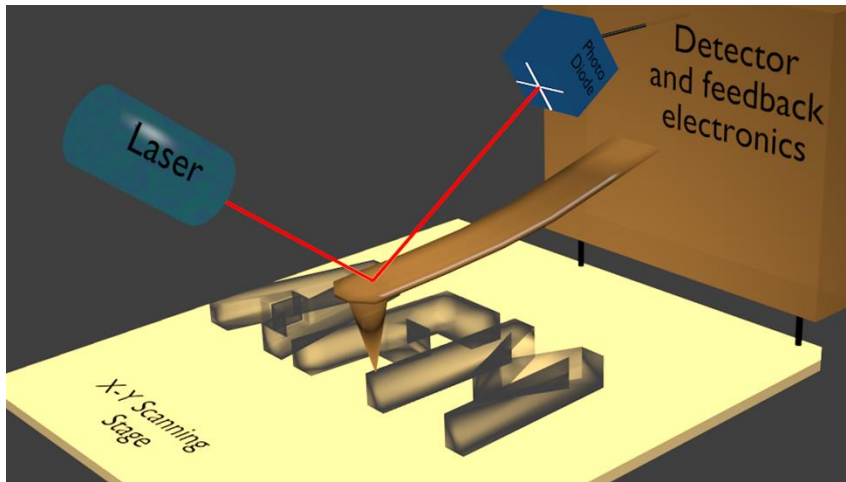
Attila-Gergely Vég

BRC Szeged (H), *Institute of Biophysics*

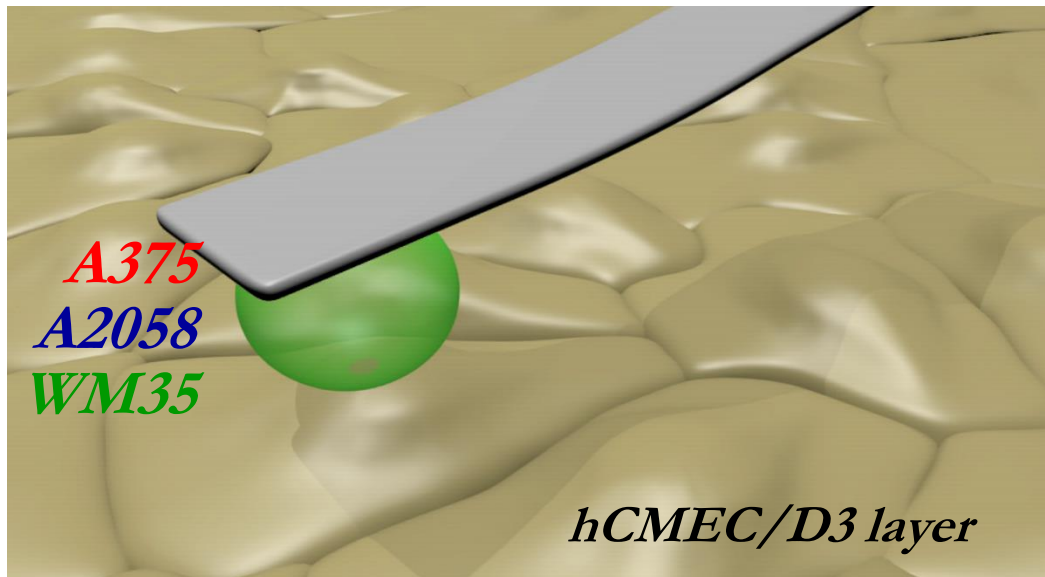
*RBC2018 Zreče, May the 17<sup>th</sup> 2018*



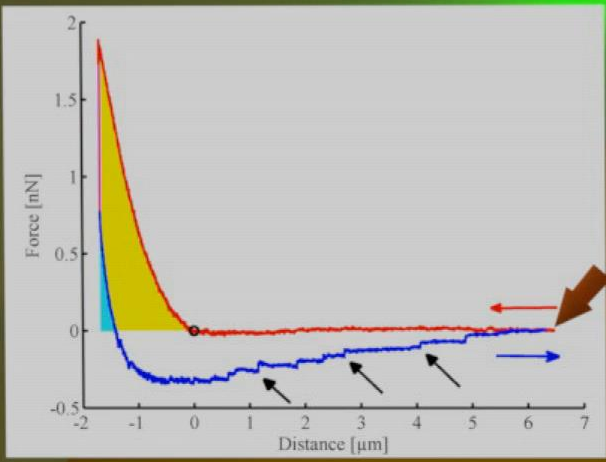
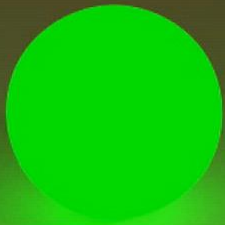


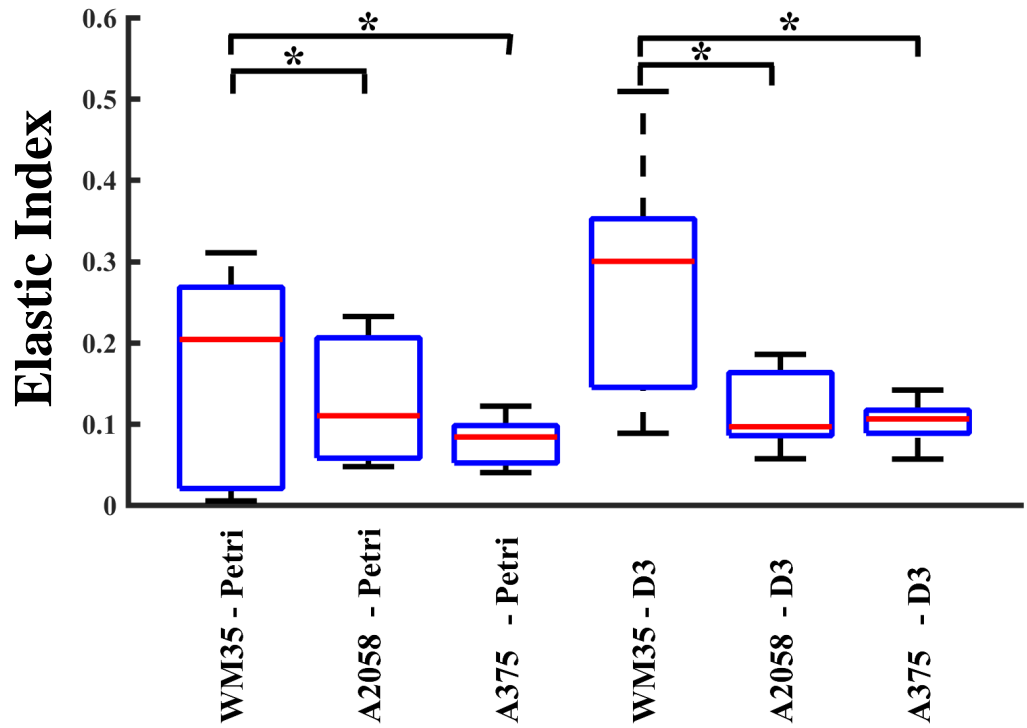
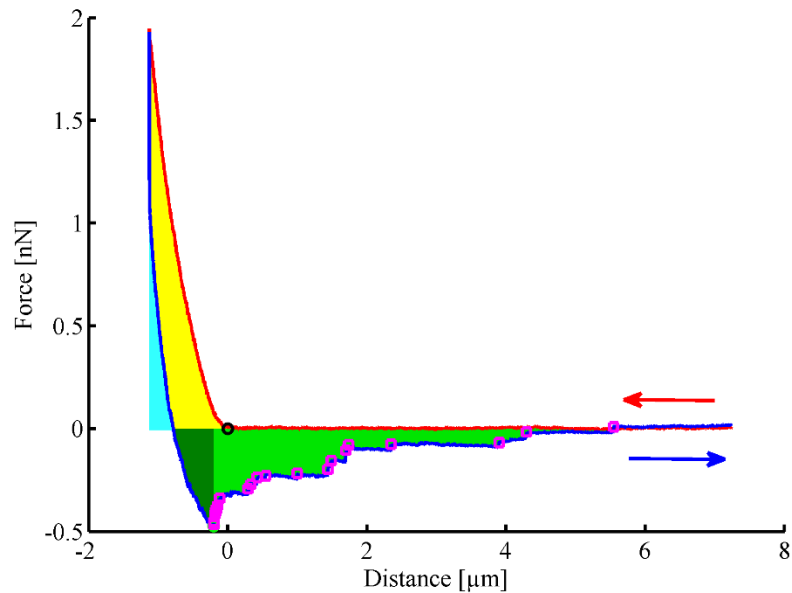


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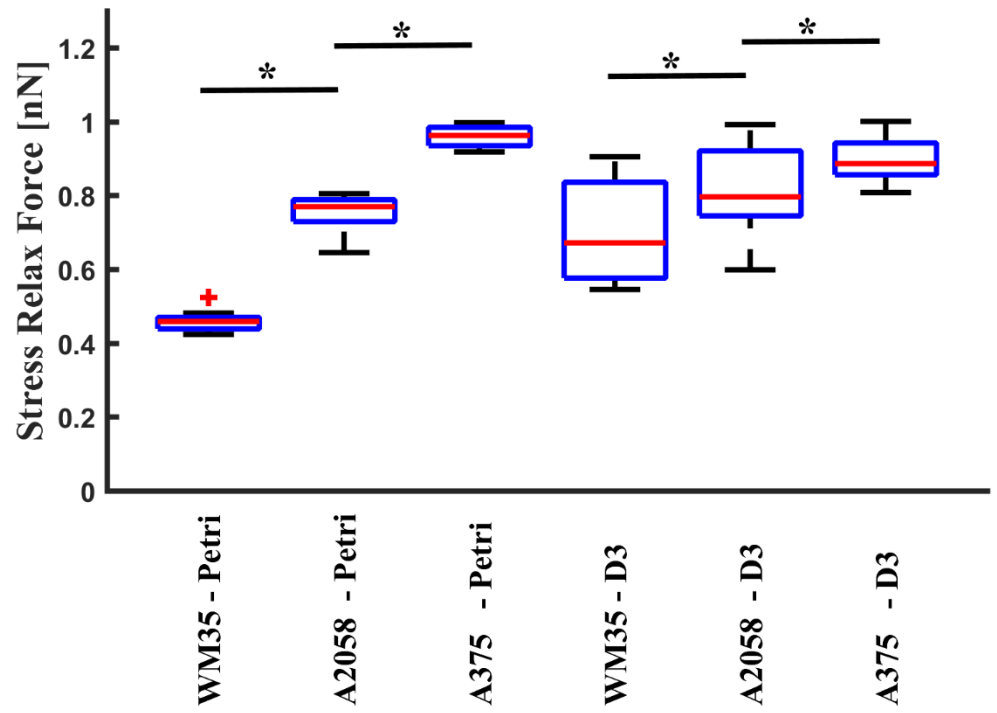
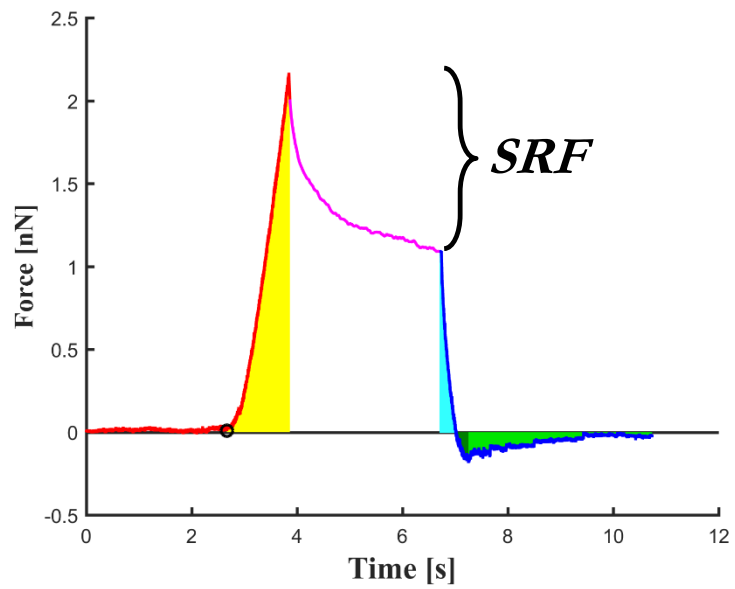


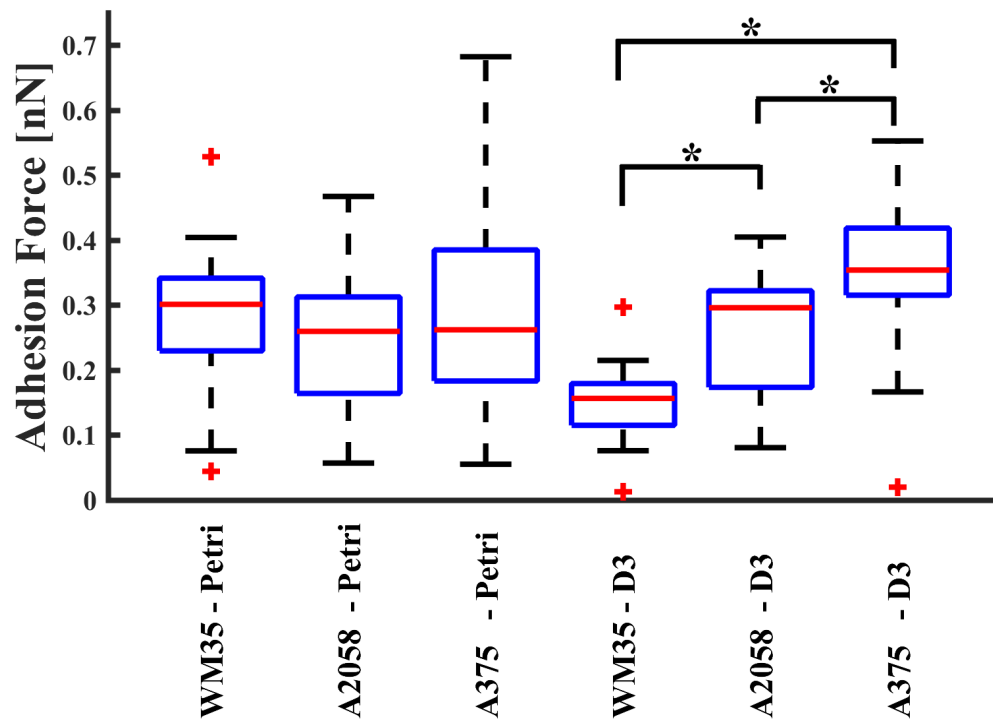
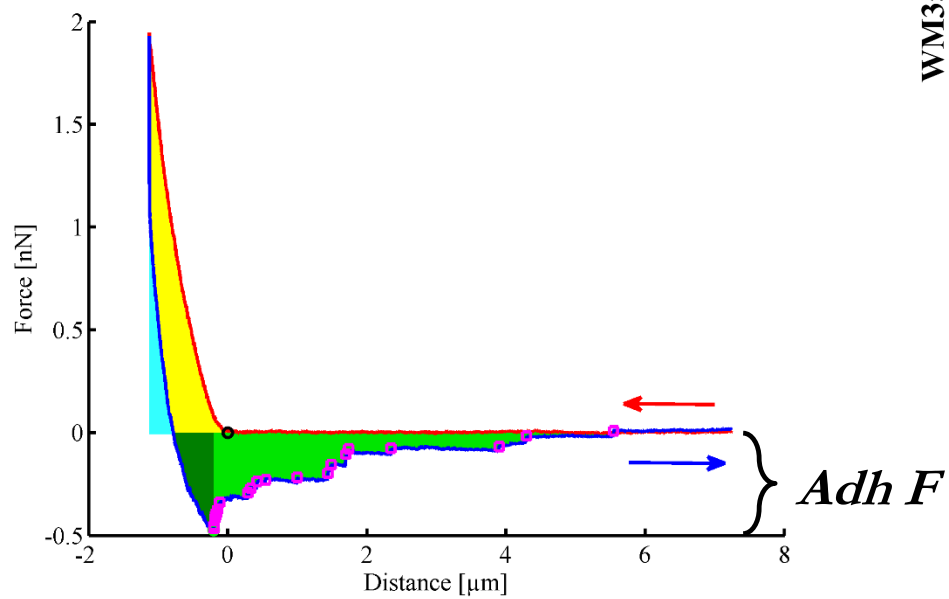
*BRAF, V600E*  
*NRAS<sup>wt</sup>*



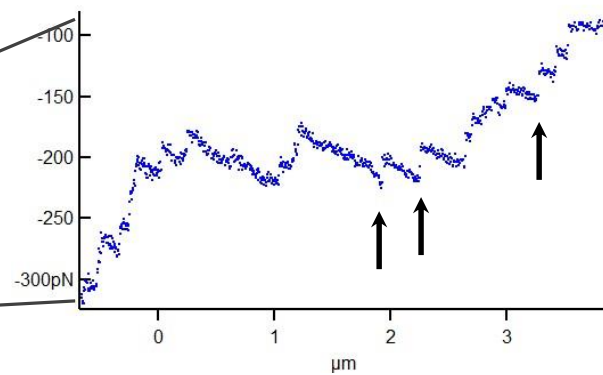
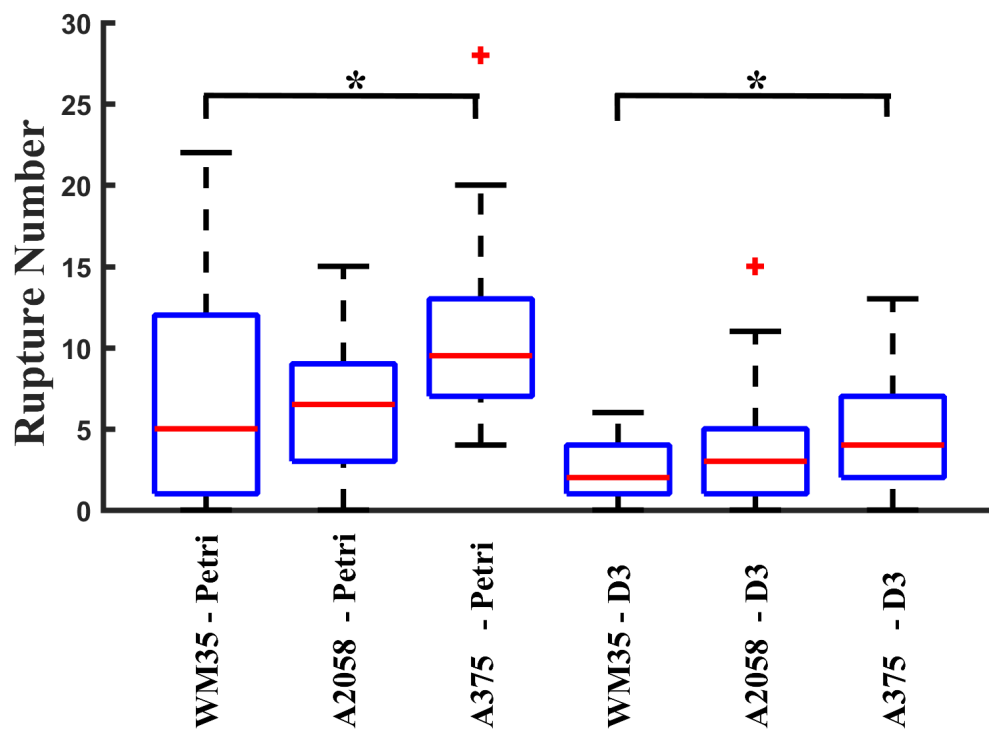
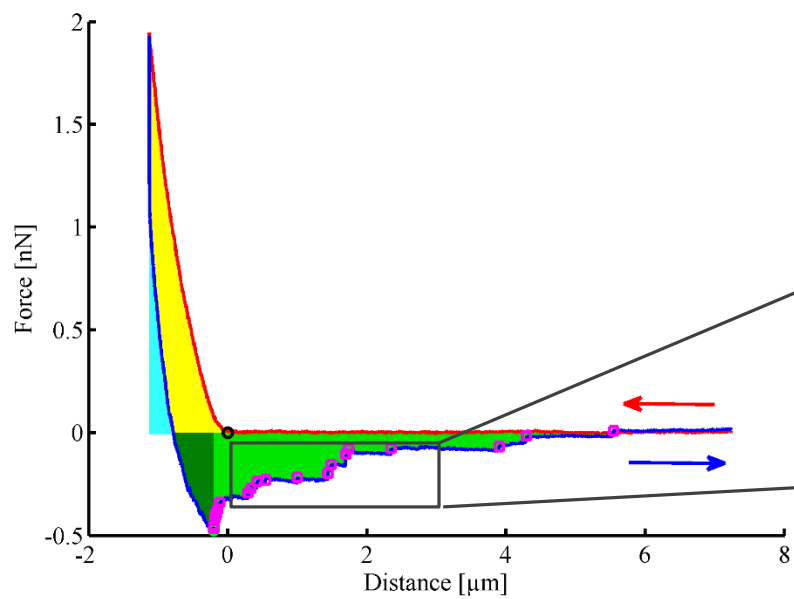


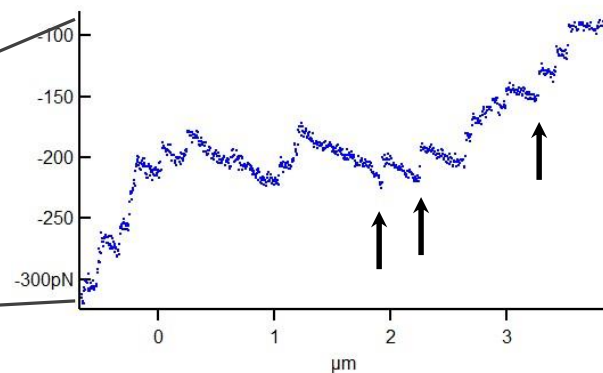
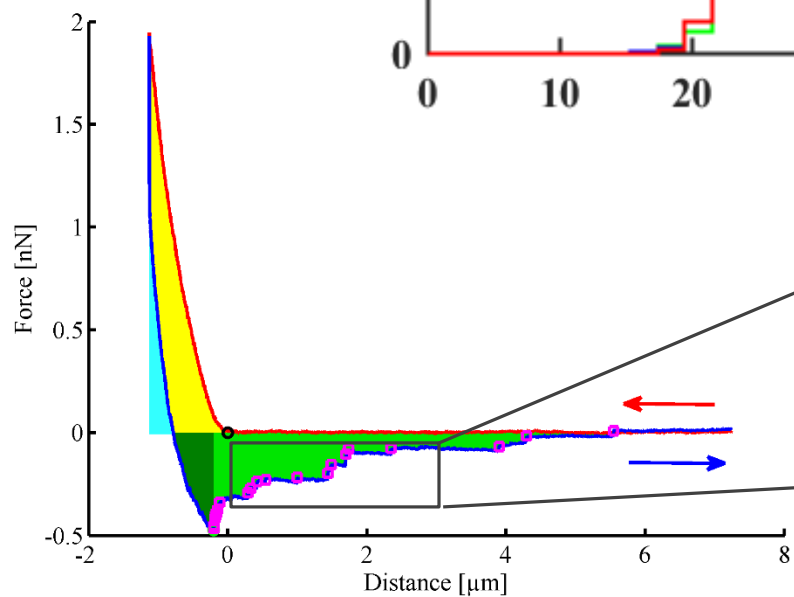
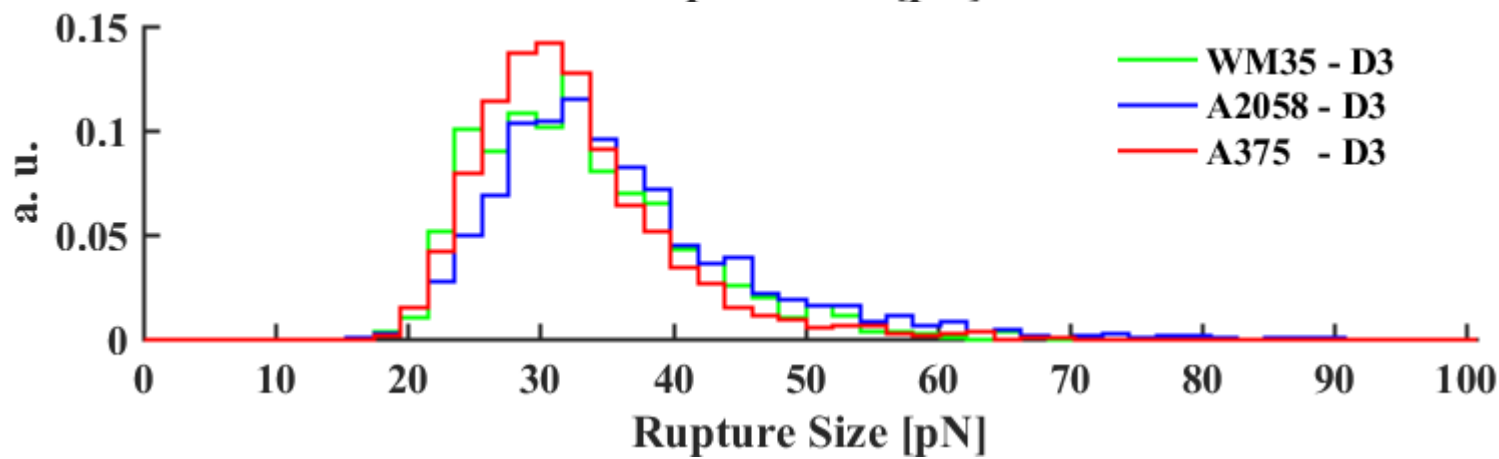
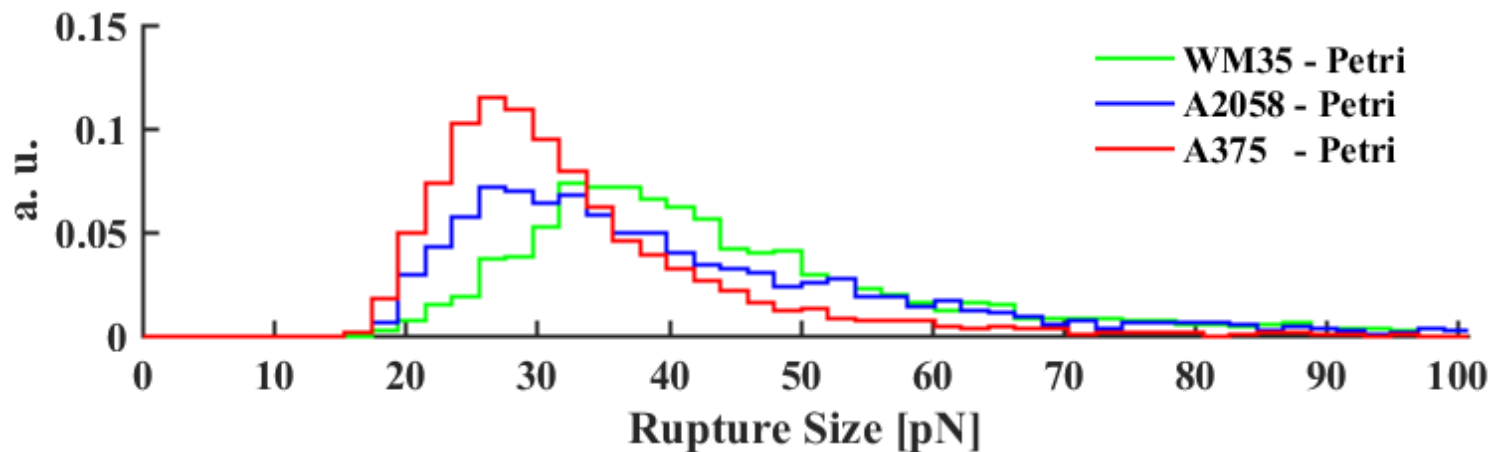
$$\text{Elastic Index} = \frac{\text{Remanent work}}{\text{Indenting work}}$$

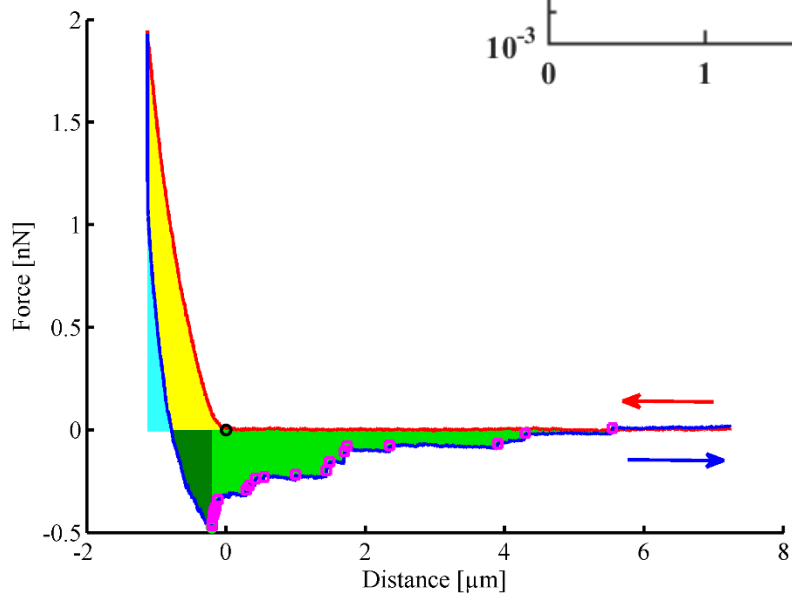
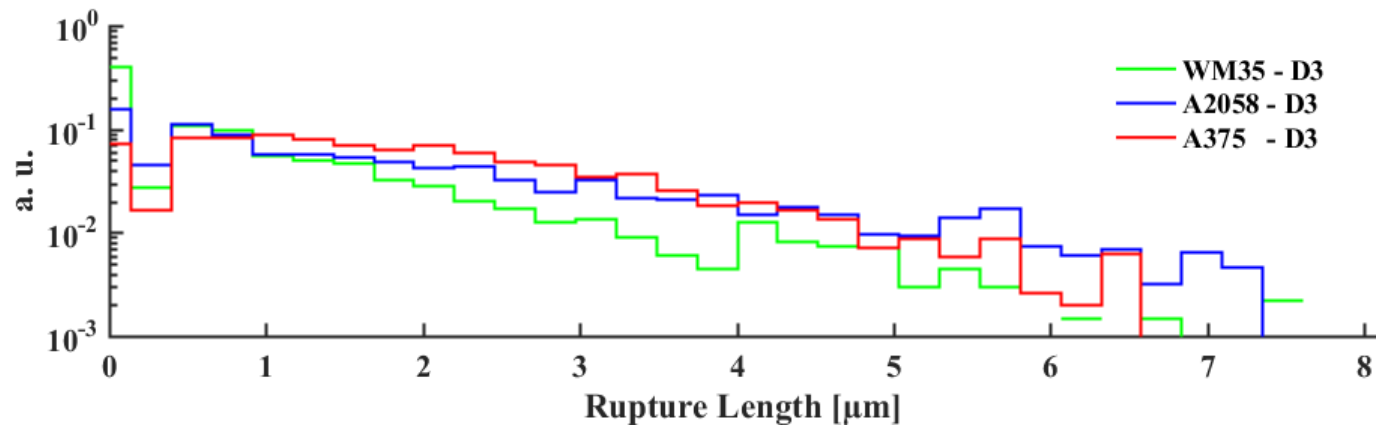
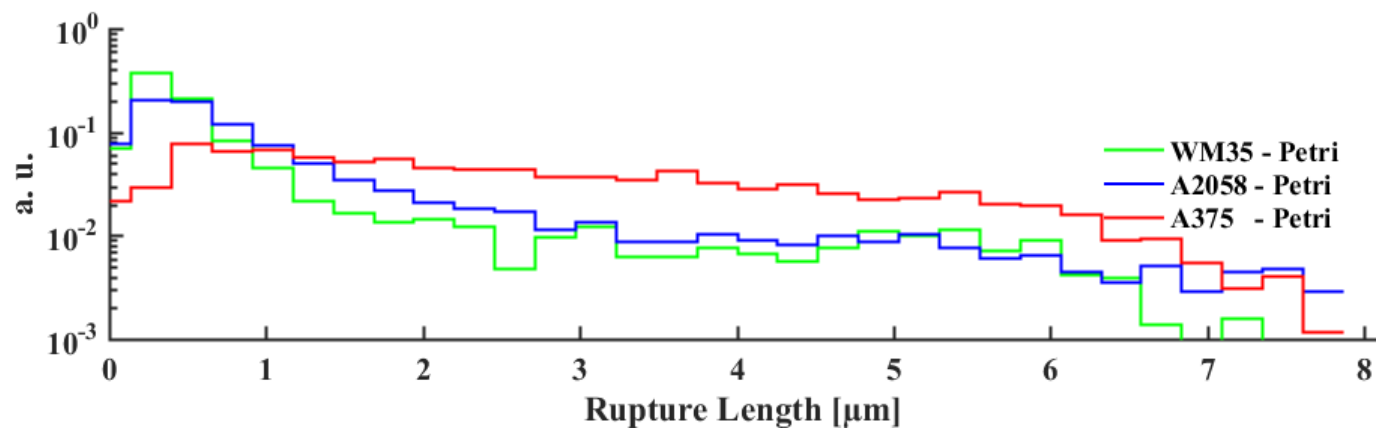












# Summary

- ✓ **Force-spectroscopy: direct measurement of intercellular de-adhesion dynamics on living cells**
- ✓ **De-adhesion dynamics can be measured with pN resolution**
- ✓ **Nanomechanical parameters reflect the invasive potential of melanoma cells**
- ✓ **Membrane nanotubes play important role in the adhesion pattern between melanoma and brain endothelial cells**



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**Béla Varga**

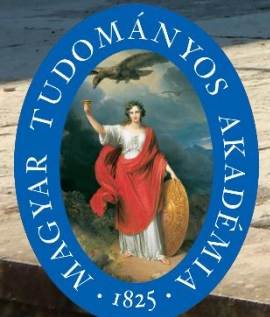


**Dr. István Krizbai**

**Dr. Imola Wilhelm**

**Dr. Csilla Fazakas**

**Réka Domokos**



*Thank you for your kind attention!*

