

bioAFMlab meeting report 250907**From:** Federica Galli <galli@physics.leidenuniv.nl> (LION)**To:** oosterkamp@physics.leidenuniv.nl**CC:** aartsma@physics.leidenuniv.nl, katan@physics.leidenuniv.nl, es@physics.leidenuniv.nl, rijsewijk@physics.leidenuniv.nl, magis@physics.leidenuniv.nl, noort@physics.leidenuniv.nl, Heeres@Physics.LeidenUniv.nl, stan@physics.leidenuniv.nl, frese@physics.leidenuniv.nl, patil@physics.leidenuniv.nl, k.wagner@chem.leidenuniv.nl, bahatyrova@physics.leidenuniv.nl, liuln@physics.leidenuniv.nl, beker@physics.leidenuniv.nl, loo@physics.leidenuniv.nl, a.korobko@chem.leidenuniv.nl, "Jaeger, M. de" <Jaeger@Physics.LeidenUniv.nl>, Jan-Willem Beenakker <jw@beenakker.com>, "Yuana, Y. \ (ONCO)" <Y.Yuana@lumc.nl>, f.wiertz@chem.leidenuniv.nl, zhang@physics.leidenuniv.nl, hendrikx@physics.leidenuniv.nl, kelly@physics.leidenuniv.nl, komissarov@physics.leidenuniv.nl, he@physics.leidenuniv.nl, d.georgieva@chem.leidenuniv.nl**Date:** 2007-09-26 11:51

Present: Federica, Anne France, Tjerk, Dilyana, Maarten, Brian.

Dilyana:

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Imaged streptavidin on MWCNT with AFM (in air) and EM (Delft). It appears that the binding - streptavidin is believed to bind to hydrophobic surfaces- on the CNT has worked but she'd like it to confirm it better and be sure it's not "dirt". Tjerk suggests to 1. see whether the protein binding works and/or 2. add Au-beads coated with streptavidin, and see whether the beads bind to the streptavidin covered MWCNT.

Brian:

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Shows approach curves on AAA Aneurismatic tissue and "Aoriat" tissue, for soft and stiff cantilevers, and the difference is related clearly to the force constant. He can see steps in approach with soft cantilevers. Tjerk suggests to probe different distance ranges for the fitting of the approach curve.

Dilyana, Brian, please send me comments/further remarks and then I will upload report on the wiki.

Federica

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