

report bioafmlab meeting 02102007**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 <iw@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, kamran@physics.leidenuniv.nl**Date:** 2007-10-04 15:19

Present: Xin, Floris, Tjerk, Brian, Maarten, Federica, Dilyana, AFB.

Tjerk: brings small sample holder to look at the side (like cross sections) instead of the top surface.

Brian: briefly mentions that the "Ariot" tissue he looked at the week before is actually healthy aorta tissue, but he thinks it's old (dry) and should get fresh one.

Maarten: shows further analysis of the measurements (recognition imaging) he did in Linz. Shows high-res. images ($200 \times 200 \text{ nm}^2$), with binding sites ($\sim 20\text{nm}$). After drift corrections (by comparing to the S-layer topography images, crystal periodicity $\sim 20\text{nm}$) he analyses the images with ImageJ software. Some of the binding spots deviate slightly from perfect circular shape and are slightly elliptical.

Dilyana: Shows new EM images of bare MWCNT and also of MWCNT with streptavidin ($\sim 3\text{nm}$), showing that streptavidin binding on MWCNT has worked, as already shown by AFM.

Anne France: mentions that the noise level in her setup is very low (0.05 pA), nevertheless no catalytic activity was seen in the last test.

Please send comments before I upload report on the wiki.

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Federica Galli
Leiden Institute of Physics
Niels Bohrweg 2
2333 CA Leiden
The Netherlands
FAX: 0031-71-5275404
TEL: 0031-71-5275468
email: galli@physics.leidenuniv.nl
web: <http://www.xs4all.nl/~fgalli/>
email: fed.galli@gmail.com