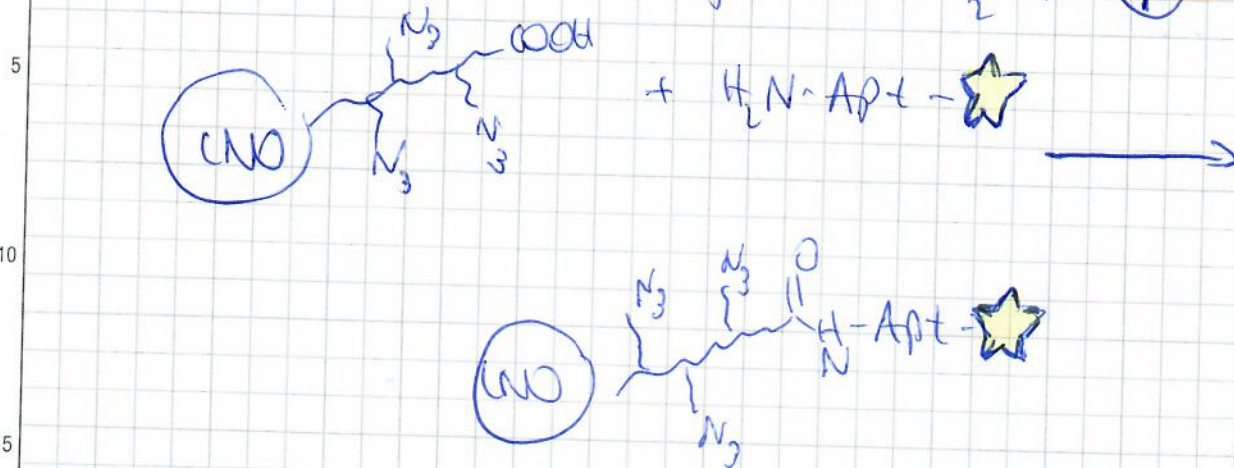


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→ for DIRECT FLUORESCENCE QUANTIFICATION

- Functionalization of CuO@Talys with $\text{NH}_2\text{-Apt-Cy5}$ Protocol:

0.5 mg of CuO@Talys (A5395, 5 mg/ml, 100 μl) were washed with 0.1 M MES buffer (pH 5.8). The pellet was resuspended in MES buffer. NPs were incubated with excess sol. of EDC ($\text{P} 62.1 \text{ g/L}$, 400 mM, 50 μl , in MES) and amino-NTC ($\text{P} 21.7 \text{ g/L}$, 100 mM, 50 μl , in MES) at rt (- control: only MES, NO coupling agent). Take 10 μl aliquot (1 mM) + 90 μl PBS + 5 mM MgCl_2 heat + 10 min.

50 μl of 10 μM anti-EGFR-Apt-Cy5 (0.5 nmol) was added to the NP solution and incubated for 4h at rt. (1500 rpm).

At the end: - Tween 20 0.01% (1x)
- Hybridiz. buffer (1x)
- PBS + 5 mM MgCl_2 (1x)

→ incub 10 min
thermostacker
each!

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