Expanding the dynamic measurement range for polymeric nanoparticle pH sensors - DTU Orbit (18/12/2018)

Expanding the dynamic measurement range for polymeric nanoparticle pH sensors

Conventional optical nanoparticle pH sensors that are designed for ratiometric measurements in cells have been based on utilizing one sensor fluorophore and one reference fluorophore in each nanoparticle, which results in a relatively narrow dynamic measurement range. This results in substantial challenges when conducting live cell measurements, which often leads to misleading results. In the present work we provide a simple solution to this problem.

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