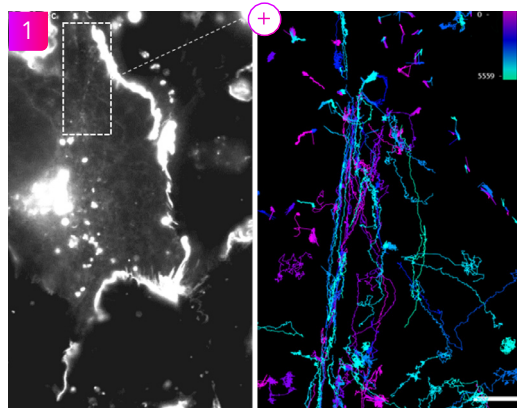


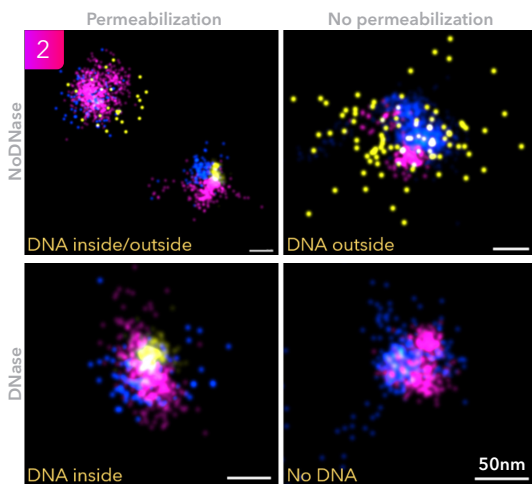
Single EV imaging reveals novel EV biomarkers and DNA cargo

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Andras Miklosi, Ricardo Bastos
ONI (Oxford Nanoimaging), Oxford, UK



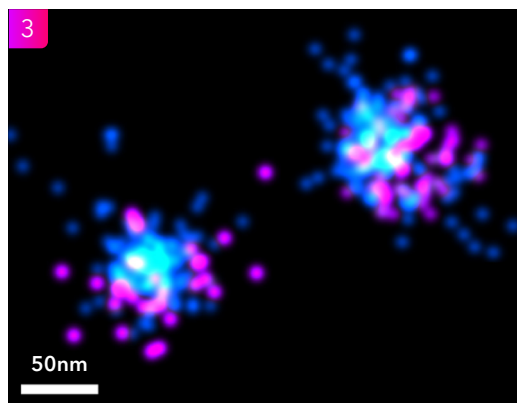
Monitor biogenesis pathways

Vesicle tracking of Claudin2- GFP to junctions between cells. *Tina Van Itallie, NIH, Bethesda*



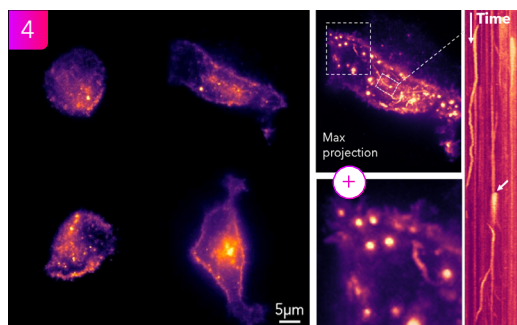
Measure DNA cargo

Detection of DNA on the surface and as cargo inside EVs isolated from neuroblastoma cells using dSTORM. DNA, CD63 and CD81. *Dr. Franz Ricklefs, UMC Hamburg*



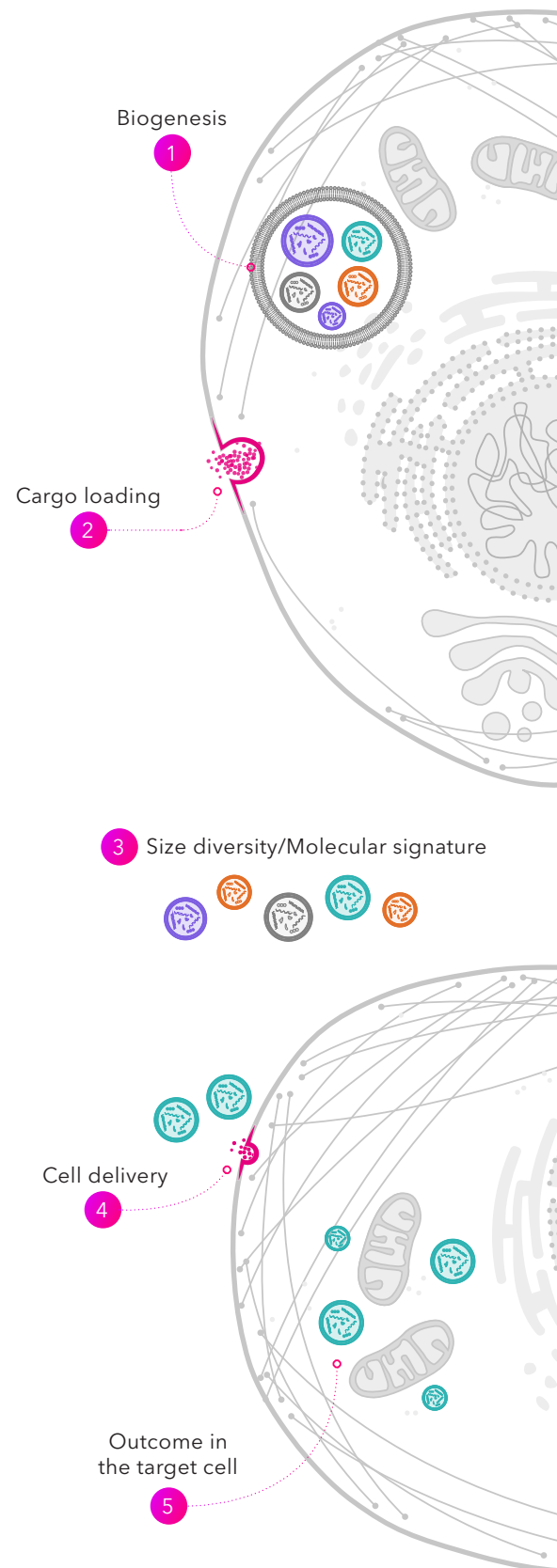
Detect novel EV biomarkers

Characterization of novel biomarkers on the surface of urinary EVs using dSTORM. Klotho and CD81. *Prof. Benedetta Bussolati, University of Turin*



Track EV release

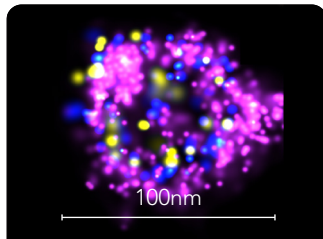
Tracking of EVs in neuroendocrine pc12 cells. CD63 tagged with pHluorin. *Michelle Knowles, University of Denver*



The Nanoimager: the most complete solution for EV characterization

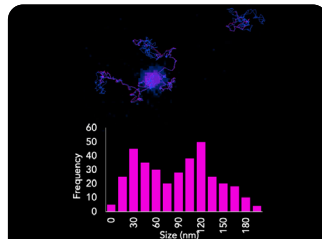
Key features

- Visualize single EVs with 20 nm resolution
- Characterize novel EV biomarkers
- Detect and characterize EV cargo
- Monitor EV transport to cells
- Track EV movement inside cells
- Understand diffusion dynamics



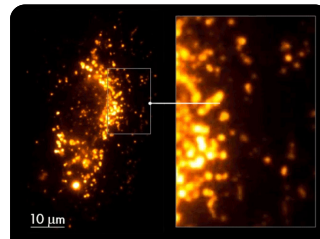
EV characterization

- Biomarker detection
- Cargo composition (nucleic acids/ proteins)
- Structure & morphology



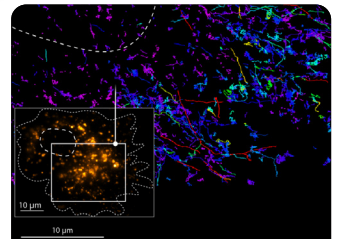
Enhanced NTA

- Size distribution
- Concentration in solution
- Diffusion co-efficient



Live imaging of EVs

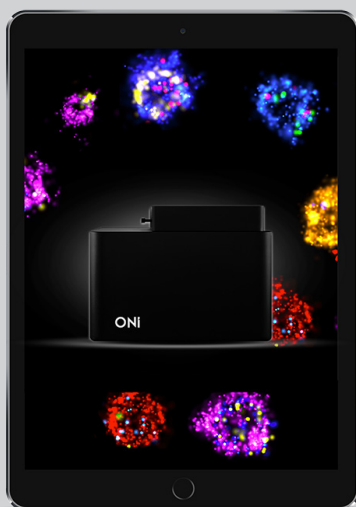
- EV uptake
- EV delivery
- EV release



SPT* in living cells

- Intracellular tracking
- Molecular interactions
- EV transport

*Single particle tracking



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Ask your question

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