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Research highlight

Smart cell culture dish

Sensory coating for non-invasive monitoring of cell cultures

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Technology

- Label-free (multiparametric) imaging

Customer Benefits

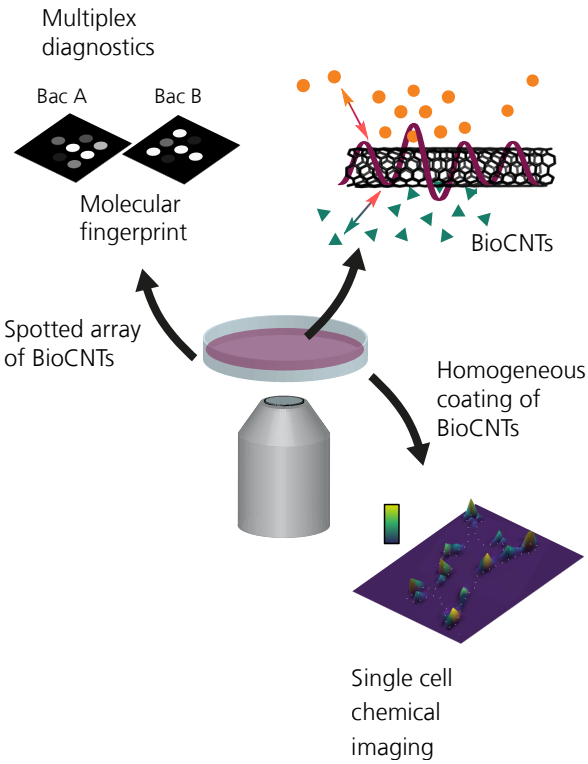
- Multi-parametric, long-term and label-free biosensing and chemical imaging
- No spectral overlap with traditional fluorescence techniques
- Adaptable for different culture dishes, plates, and flasks

Application Fields

- Monitoring of metabolic activity for advanced gene therapies
- High-resolution imaging of neurotrans-mitters to study cell communication
- Spatial resolution is only limited by optical resolution
- Continuous monitoring of cell culture sterility

System advantages

- Bioselectivity and CNT emission wavelength are customizable
- Signals in the tissue transparency window of the near-infrared
- No bleaching of sensor fluorescence
- Homogeneous or spotwise coating on various substrates



Smart Dish
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