iDiagnostics (iTIRF Arrays)
TIRF Spectroscopy
TIRF Microscopy

Single ion Channel Single Molecule Detection

Patch clamp technique combined with fluorescence single molecule detection

iTIRF Arrays

iDiagnostics
cellphone based molecular diagnostics

We extended TIRF into 3rd dimension and invented iDiagnostics
Now you can hold a hospital laboratory in the palm of your hand

Turnkey Single Molecule Detection
TIRF Microscopy Station

Modular TIRF station includes:
- Fluorescence microscope
- Ig-, p-, or/and o-TIRF microscopy flow systems
- Low light EM CCD camera Andor Technologies
- Multi-color computer-controlled illuminator
- Digital fluidics SmartFlow
- Potentiostat and/or wave-function generator
- TIRF Studio software for instrument control

Prism-, and Lightguide-based TIRF Microscopy

- Superior signal-to-background ratio
- Well-suited for single molecule detection
- Use YOUR microscope and YOUR objectives
- Use with dry, water-, and oil-immersion objectives
- Use Xenon lamp, LED, or laser illuminators
- Open perfusion or closed flow chambers
- Install/uninstall in less than one minute

TIRF Accessories for Fluorometers

- TIRF Accessory transforms your spectrofluorometer into a super-sensitive TIRF biosensor instrument
- Optional electrochemical, DEP and temperature control
- SmartFlow Fluidic System allows to run unattended TIRF experiments, measure sensograms to derive $k_{on}$ and $k_{off}$
- Advanced fluidics allows for handling nanoliter volumes

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