



INTANA BIOSCIENCE

Precision target occupancy analytics for translational drug discovery and clinical development.

FCCS

Single-molecule interaction analytics

PK/PD

Physiological occupancy measurements

CRO

Customized assay development

Measuring drug action in physiological context

Intana quantifies endogenous target engagement instead of relying on artificial overexpression systems.

01

Endogenous Proteins

Direct occupancy measurements on native targets in lysates, tissues and serum.

02

Clinically Relevant Data

Better translational prediction for dose selection and candidate prioritization.

03

Reduced Development Risk

Early identification of insufficient engagement before expensive clinical trials.

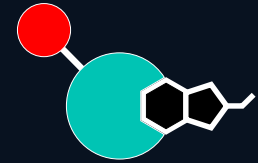
Assay development for FCCS

Highly sensitive interaction profiling

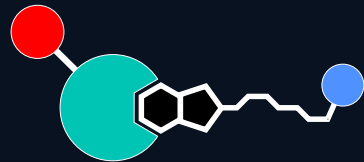
Target and probe labeling



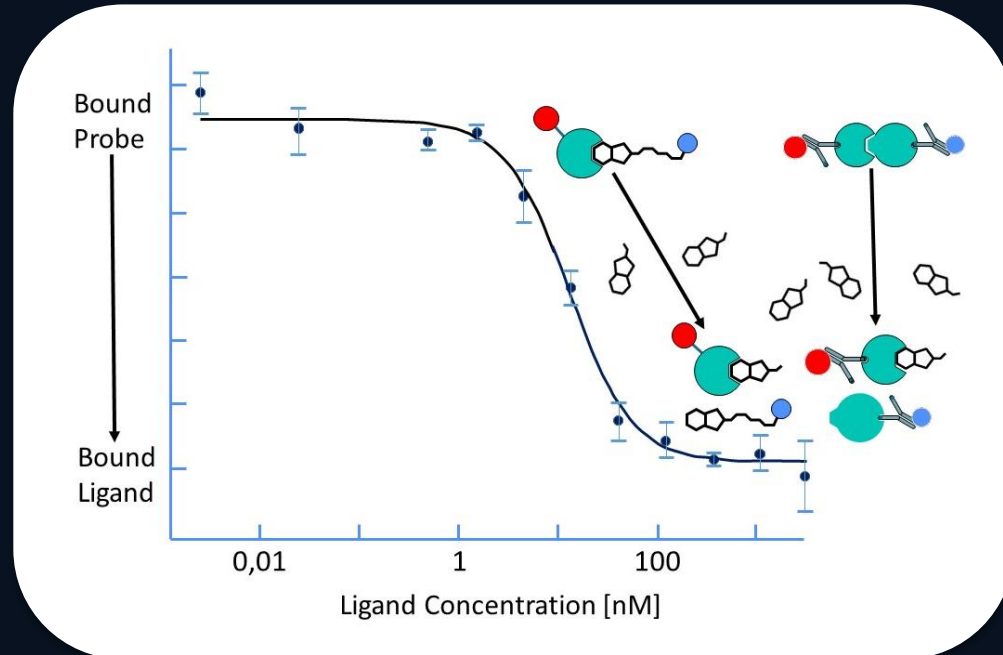
Ligand interaction



Correlation analysis



Interaction of macromolecules



Single molecule diffusion tracking by FCCS

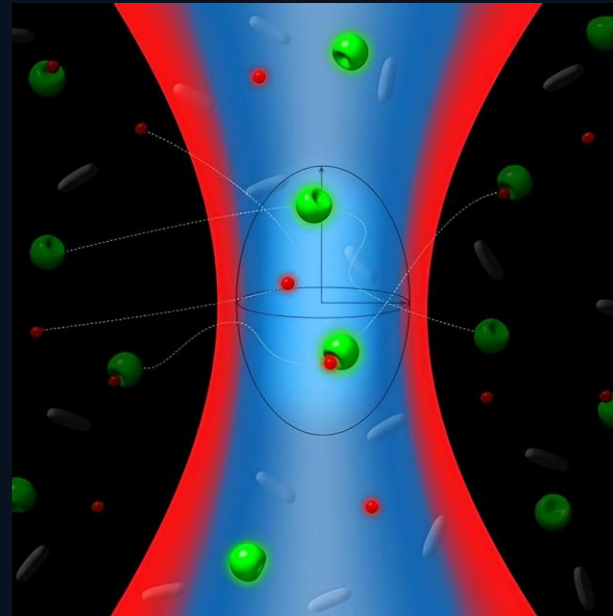
Very Low Sample Volume of 2 μ l

Overlapping laserbeams

Trace detection via confocal microscope

Correlation analysis

Occupancy quantification



Interpretation of Cross Correlation Signals

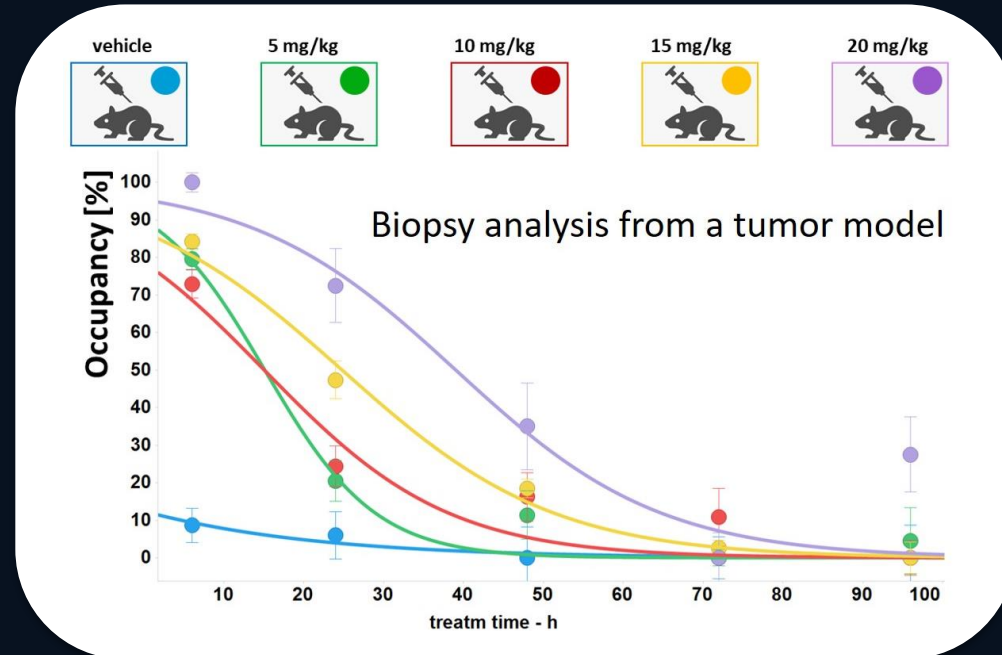
Several parameter can be obtained at high accuracy

On and off rate constants define K_D

Total target concentration

Target occupancy

Kinetics of cell membrane penetration



Integrated discovery and translational services

Assay Development / Screening

Customized FCCS workflows

Hit Validation

Mechanistic interaction confirmation

Occupancy Studies

PBMC, tissue and biopsy analytics

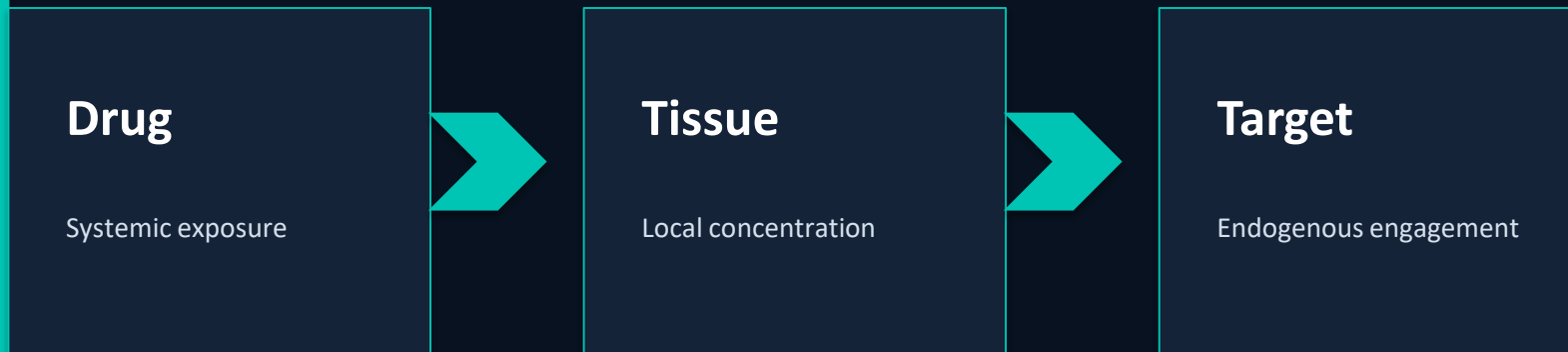
PK/PD Support

Exposure-response modeling

Clinical Translation

Dose and efficacy optimization

Exposure alone does not define efficacy



Collaborations and translational research

Janssen Pharmaceuticals

Merck KGaA

Karyopharm

DeuterOncology

Max Planck Institute

Many more we may not disclose

**Let's improve
translational confidence**

Intana Bioscience GmbH

Lochhamer Str. 29a
82152 Planegg/Martinsried
Germany

info@intana.de
+49 (0)89 89 55 72 80
www.intana.de