Intana
Bioscience GmbH

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

SCIENTIFIC DIFFERENTIATION

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

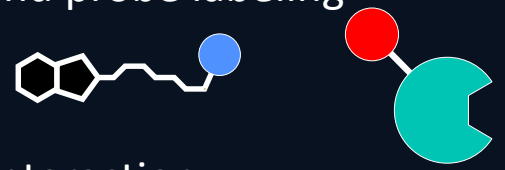
Early identification of insufficient engagement before expensive clinical trials.

TECHNOLOGY PLATFORM

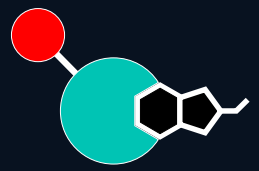
Assay development for FCCS

Highly sensitive interaction profiling

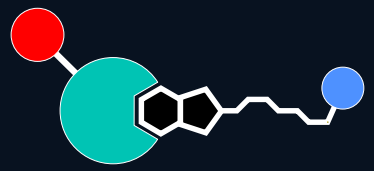
Target and probe labeling



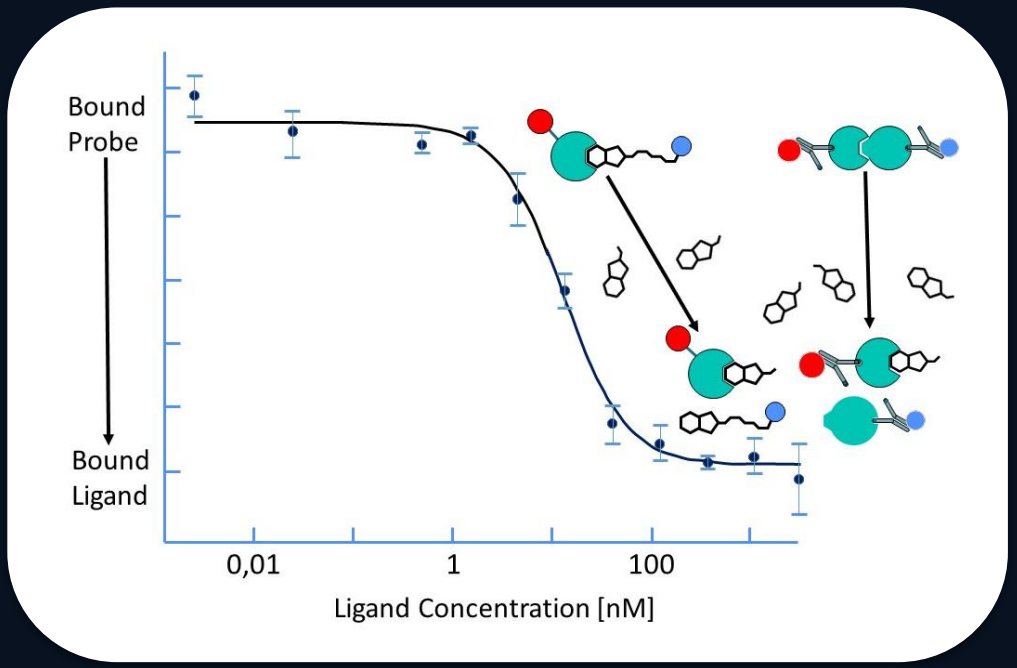
Ligand interaction



Correlation analysis



Interaction of macromolecules

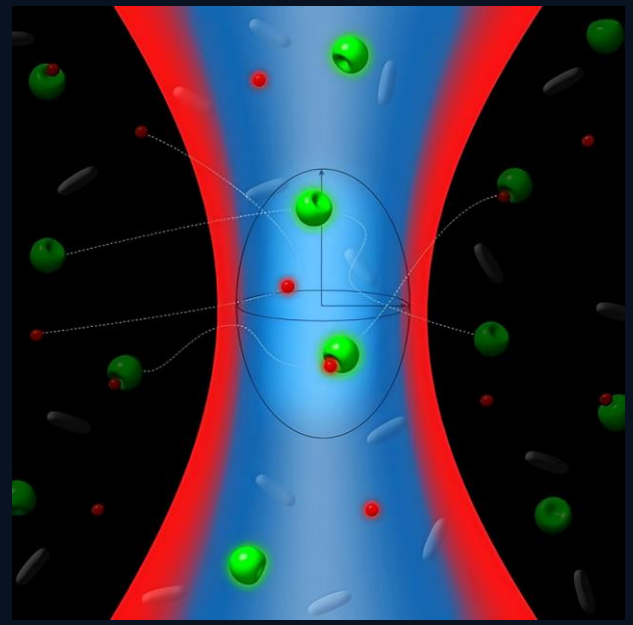


TECHNOLOGY PLATFORM

Single molecule diffusion tracking by FCCS

Very Low Sample Volume of 2 µl

- Overlapping laserbeams
- Trace detection via confocal microsccope
- Correlation analysis
- Occupancy quantification

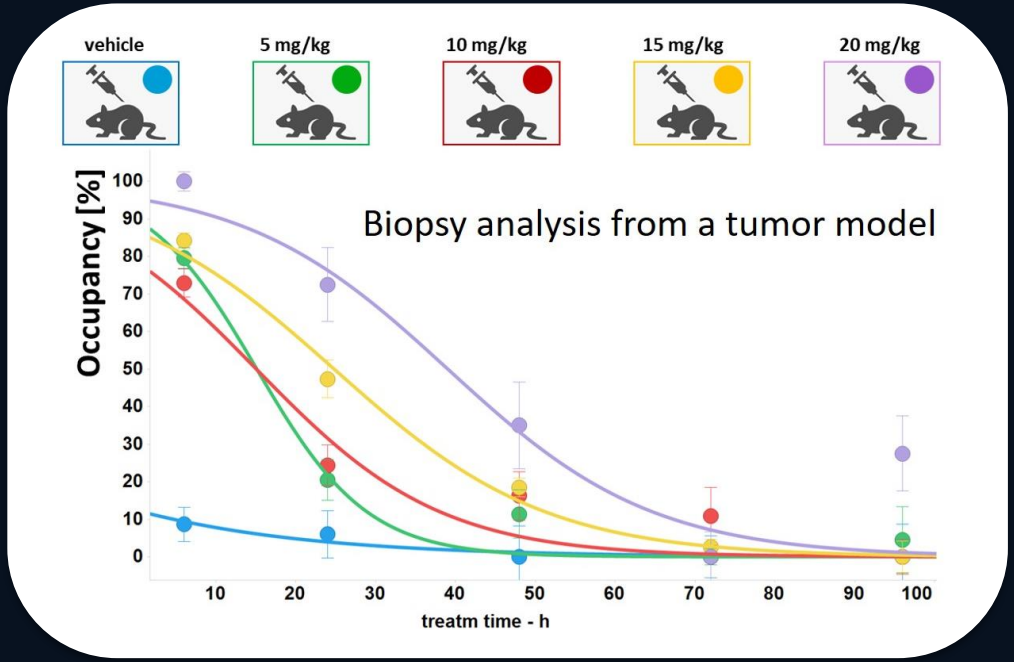


TECHNOLOGY PLATFORM

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



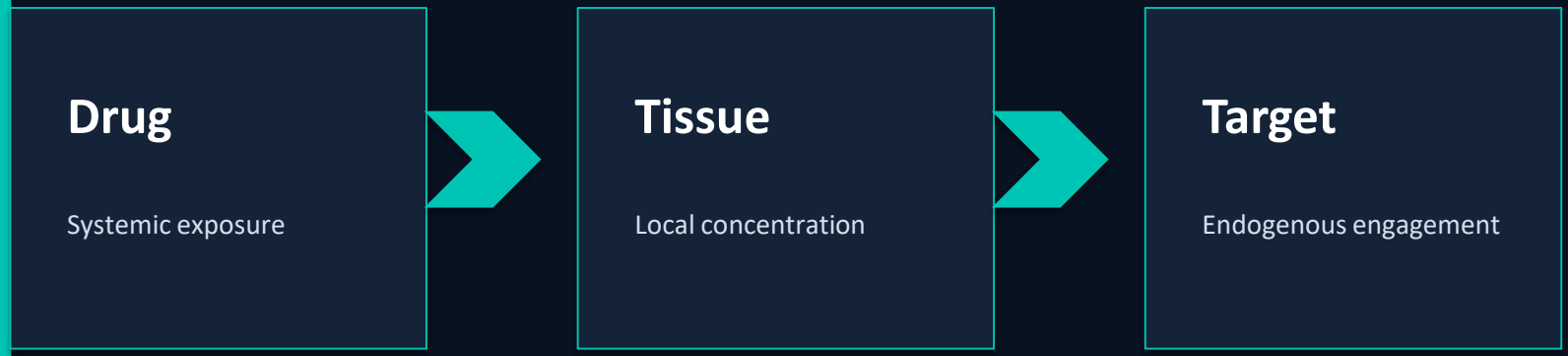
SERVICE PORTFOLIO

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

OCCUPANCY ANALYTICS

Exposure alone does not define efficacy



INDUSTRY VALIDATION

Collaborations and translational research

- Janssen Pharmaceuticals
- Merck KGaA
- Karyopharm
- DeuterOncology
- Max Planck Institute
- Many more we may not disclose

Let’s improve translational confidence

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