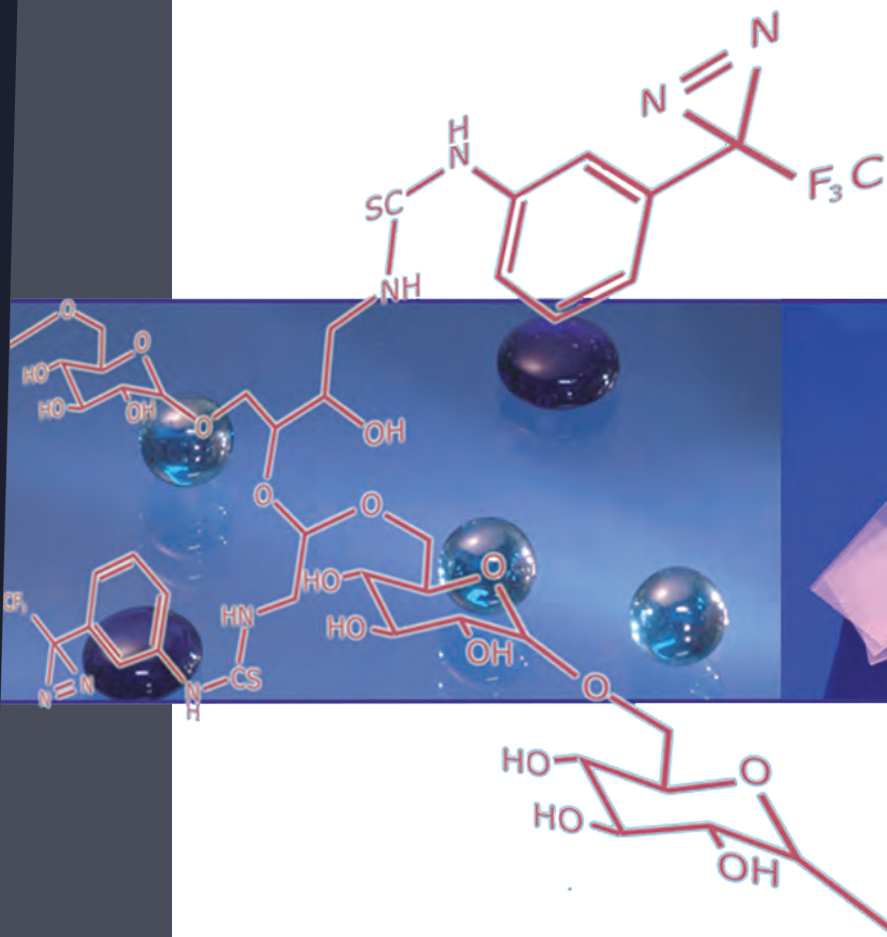
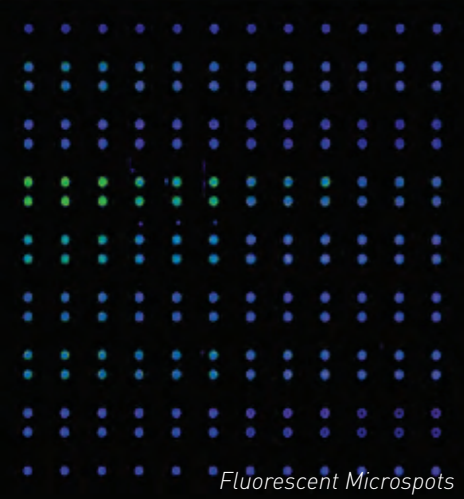




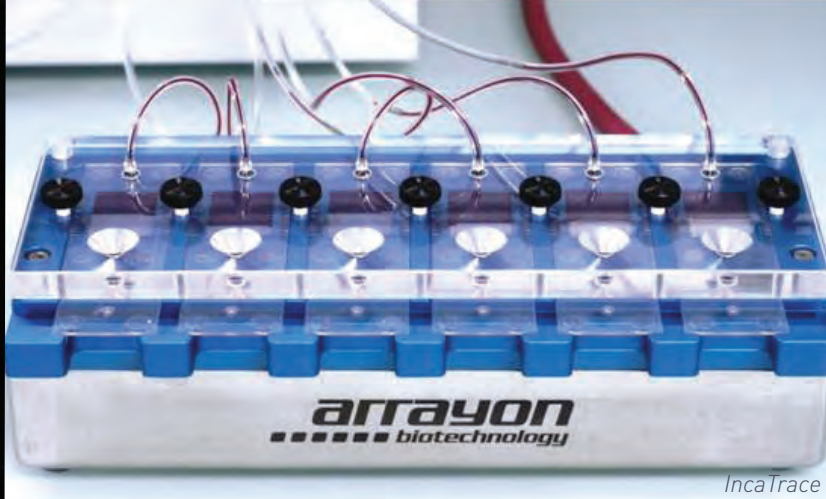
OptoDex[®]
Linking Value
to Surface



A covalent and reliable
Surface Functionalization Technology



Fluorescent Microspots



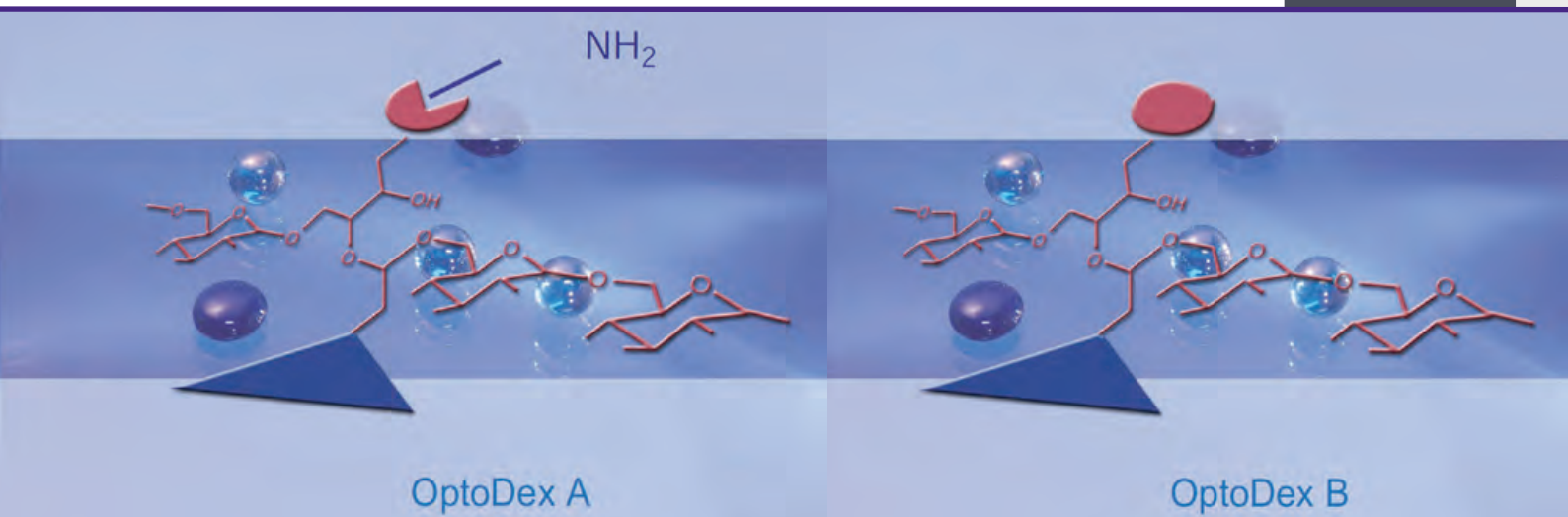
IncaTrace

We take care about your surface. It is the interface with the world. It has to withstand but also to interact with the surrounding. We have developed the OptoDex[®] Technology that functionalizes a surface to obtain both – a passivated and customized interface to the surrounding.

Our covalent binding process can be controlled and optimized for your application. This saves precious biomolecules. And you know how much is bound and what you are working with. The OptoDex[®]

molecule – a dextran-photolinker – is the glue. It links surfaces and biomolecules covalently together – by a simple UV- or heat-activation step.

Your surface is unique. If it is for a bioassay or an implant, for a plastic or a metallic surface, the choice of the appropriate member of the OptoDex[®]-family gives the characteristic you need.



OptoDex A

OptoDex B

The OptoDex[®] family

OptoDex A

The good average – a photolinker polymer with amino groups

OptoDex B

The inert one – a photolinker polymer without thermochemical reactive functional groups

OptoDex C

The convertible one – a photolinker polymer with carboxyl groups, i.e. suitable for ligand immobilization by EDC/NHS coupling

The variety of biomolecules and surfaces is huge. Fortunately, OptoDex® likes to interact. OptoDex® has already linked with:

BIOMOLECULES

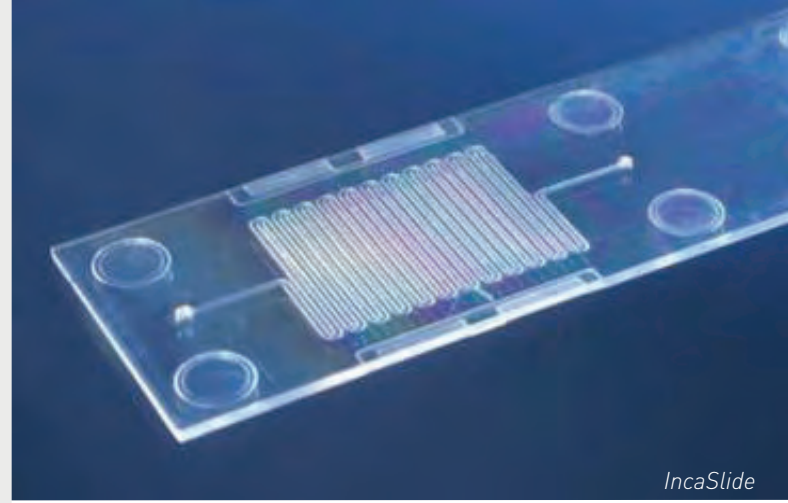
Proteins
Enzymes
Antibodies
Antigens
Allergens
Vaccines
Carbohydrates

Peptides
Oligonucleotides
Lipids
Cell extracts
Biopsies
Amino acids

SURFACES

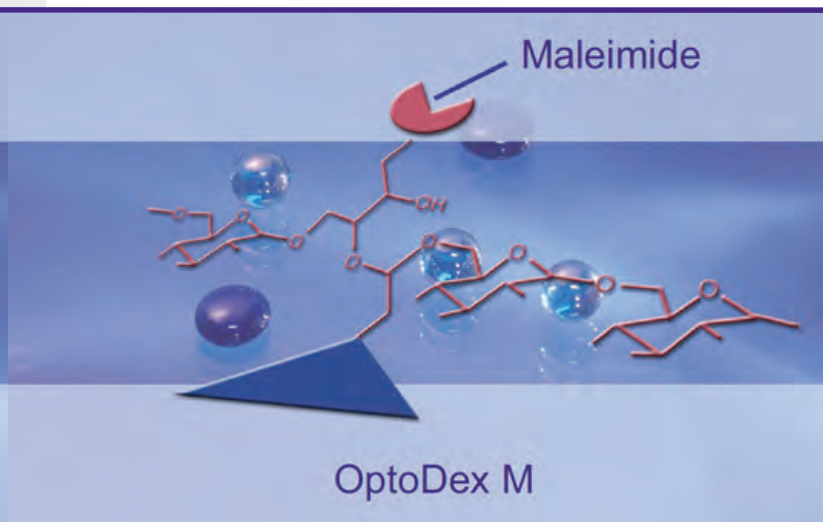
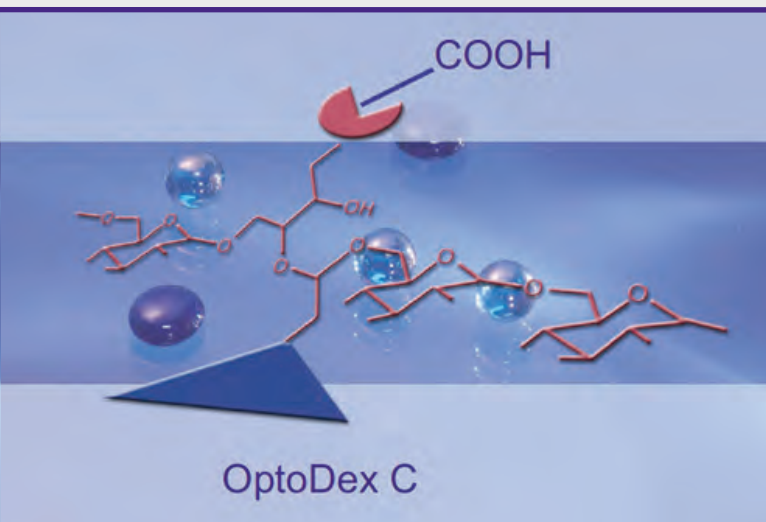
Glass
Metaloxides
Silicon, silicon nitride
Diamond, Carbon
Diamond-like carbon
Teflon
Polystyrene
Polyurethane

Polycarbonate
Cyclic olefins
Polyester
Parylene
Polyvinylalcohol
Degrapol
Polyvinyl difluoride



IncaSlide

Biochips for immunoassays and their handling are our passion. The IncaArray is our answer to improve your microarray-based bioassay. It combines the best of our technology and experience: Reproducible microarrays – the IncaSlides – prepared with the OptoDex® technology, minute amounts of reagents and analyte, and a user-friendly assay preparation with the IncaTrace.



OptoDex M The in-situ one – a photolinker polymer generating Maleimid surfaces in situ

OptoDex S The Sulfur one – a photolinker polymer with reactive thiol groups

OptoDex Biotin The devoted one – a photolinker polymer with long-chain biotin for tight binding to avidin

OUR PRODUCTS

- Functionalized biochips
- IncaArray system consisting of IncaSlides and IncaTrace

OUR SERVICES

- Custom-specific surface functionalization
- Covalent coating of biochips and microarrays
- Bioprinting
- Surface characterization
- Bioassay development

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