

scioDiscover

highly-parallel protein analysis

Biomarker discovery

Immuno-oncology

Stem cell analysis

Apoptosis and cell cycle analysis

Transcription factor analysis

Organ failure

Predictive toxicology

Advantages

- > High content analysis of 900 proteins
- > Broad spectrum covered such as oncology and organ failure
- > Low sample volumes required (10 µl plasma/serum)
- > Profiling of native samples (non-fractionated/non-depleted)
- > Sensitivity comparable to ELISA assays
- > Fully immuno-based assay (easy translation into diagnosite assays)
- > Reliable dual-colour study design
- > High reproducibility (CV < 10%)
- > Complete sample-to-result service including full data analysis and study report

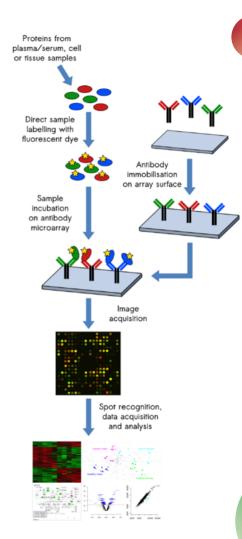
Features

- > Parallel analysis with 1130 antibodies
- > Broad coverage of:
 - · Signalling pathways
 - · Transcription factors
 - · Apoptosis markers
 - · Oxidative stress response
 - · Cell surface molecules
 - · Cytokines & chemokines
- > Several sample types possible:
 - · Plasma/serum
 - · Tissue samples
 - · Cell culture pellets
 - · Cell culture supernatant
 - · Cerebrospinal fluid (CSF)
 - · Additional sample types on request
- > Studies possible in human, murine and rat samples
- > PTM analysis on request

Applications

- > Biomarker discovery
- > Drug target discovery
- > Cancer pathway screening
- > Signalling pathway profiling
- > Immune activation profiling
- > Disease mechanism profiling
- > Transcription factor analysis
- > Apoptosis and cell cycle analysis
- > Stem cell analysis
- > Ageing research
- > Regenerative medicine

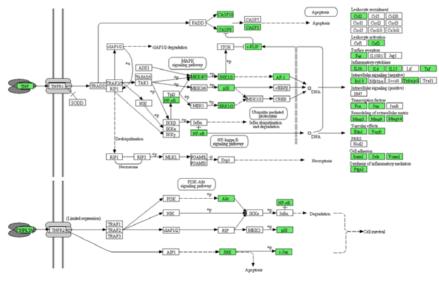




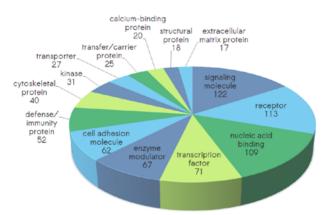
Coverage of cancer pathways

Selected pathway	No. of targets	Selected pathway	No. of targets
Inflammation signalling (chemokines/cytokines)	40	T cell activation	22
		B cell activation	21
Apoptosis signalling	38	Ras pathway Wnt signalling	18
Integrin signalling	29		17
Angiogenesis	28	TGF-beta signalling	17
Interleukin signalling	27	EGF receptor signalling	17
p53 pathway	22		17

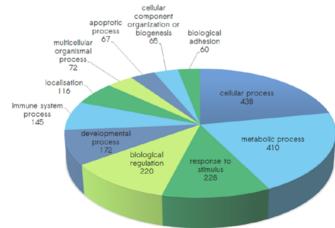
TNF signalling pathway



Protein classes

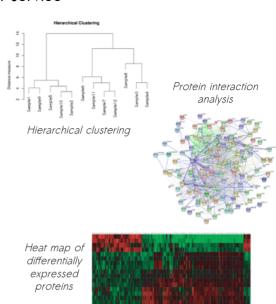


Biological processes



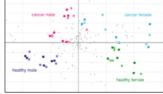
scioDiscover sample-to-result service

- > Definition of study design
- Sample preparation
- Protein extraction
- > Protein concentration measurement
- > Protein quality control
- > Sample labelling
- > Incubation of the samples on scioDiscover antibody microarrays
- > Microarray scanning
- > Raw data acquisition
- Data normalisation
- > Data analysis including hierarchical clustering analysis
- > Statistical testing for differentially abundant proteins
- > Additional analysis types available on request
- > Comprehensive study report





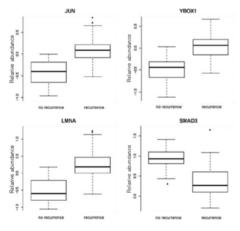
Principle component analysis



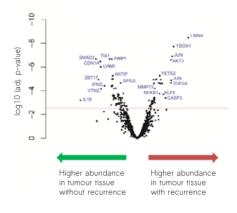
Case study: Recurrance of bladder cancer

Comparison of protein expression profiles in bladder tumour tissues with and without recurrence in the clinical course.

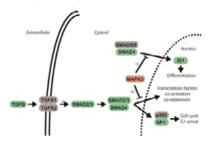
Highly relevant proteins were identified which are specific to the individual tumour subtypes.



Four proteins show a clear differentiation of recurrent and non-recurrent tumours.



TGFB pathway



green lower abundance in recurrent cancer
red higher abundance in recurrent cancer



What our customers say

"The Sciomics protein profiling platform [...] has undoubtedly opened new avenues in our research. We have found the Sciomics team to be extremely helpful and efficient during the whole process, from advising the best strategy to the final interpretation of results."

Dr. Leonardo Guasti, Barts and The London, Queen Mary's School of Medicine and Dentistry, London, United Kingdom

"I was very satisfied by the service offered by Sciomics. Conducting a project with Sciomics did feel like dealing with a partner who pays attention to the smallest details and is very interested in the success of the project."

Dr. Gaith Bakdash, Department of Tumor Immunology, RadboudUMC, Nijmegen, The Netherlands

"Sciomics antibody microarray really helped us to move forward. I am more than pleased to recommend Sciomics Antibody Microarray analysis service. The results were sent fast and ready to publish! If I hit a road block in my experiments, I am sure that their services will help me go through."

Dr. José Pedro Castro, German Institute of Human Nutrition (DIfE), Potsdam-Rehbrücke, Germany

Additional Sciomics products

scioCD Cell surface marker profiling

(available as microarray kit and as a full service)

scioPhospho Phosphorylation level analysis

scioExtract Protein isolation buffer for tissue and

cell samples

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