



scioCD

Cell Surface Marker Profiling

Characterise your cells

Differentiation of cells

Immune cell content

Microenvironment analysis

Tissue composition

Compare surface marker profiles

Applications

Plasma samples

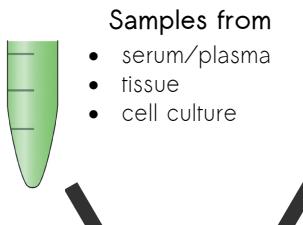
- Profile soluble CD-markers
- Overview of immunological activity
- Identify new biomarkers

Tissue samples

- Profile tissue composition
- Characterise cell content
- Analyse microenvironment
- Differentiation status
- Tissue-isolated primary cells

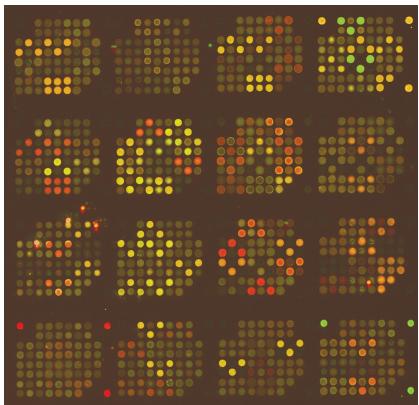
Cell samples

- Analyse cell differentiation for:
- Different growth conditions
 - Stimuli/co-cultures
 - Silencing/Overexpression
 - Stem cell composition



scioCD
high-content analysis

Profile of
CD markers
cytokines
chemokines



Advantages

- Low sample volumes required
(10 µl plasma/serum, 50 mg tissue, 3 million cells)
 - Native samples are being profiled on the arrays
(non-fractionated/non-depleted)
 - Most proteins are covered redundantly
by two or more antibodies (> 270 antibodies)
 - Sensitivity level of ELISA-based assays

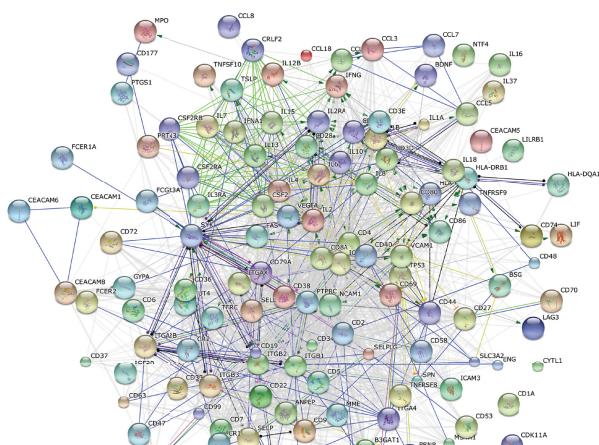
Features

- 95 unique CD cell surface markers covered
 - 26 cytokines/chemokines and 20 other relevant proteins analysed in addition
 - Antibodies available for follow-up studies
 - > 270 monoclonal antibodies
 - Available as analysis service or in an antibody array kit format including all reagents and materials

Most abundant GO-terms

Biological processes

- Cellular process (118)
 - Single-organism process (118)
 - Biological regulation (117)
 - Response to stimulus (113)
 - Immune system process (91)
 - Single organism signaling (89)
 - Multicellular organismal process (81)
 - Developmental process (61)
 - Localisation (59)
 - Biological adhesion (56)
 - Locomotion (53)
 - Metabolic process (52)
 - Multi-organisation process (47)
 - Cellular component organisation or biogenesis (39)



Interaction chart of scioCD targets

scioCD targets

CD-markers

CD1a	LEU6	CD24		CD52	HE5	CD95	FAS
CD2	SRBC	CD25	IL2RA	CD53	TSPAN25	CD97	
CD3	T3G	CD27	TNFRSF7	CD54	ICAM1	CD98	SLC3A2
CD4	LEU3	CD28	TP44	CD55	DAF	CD99	MIC2
CD5	LEU1	CD29	ITGB1	CD56	NCAM1	CD105	ENG
CD6	TP120	CD30	TNFRSF8	CD57	B3GAT1	CD106	VCAM1
CD7	LEU9	CD31	PECAM1	CD58	LFA3	CD116	CSF2RA
CD8	MAL	CD33	SIGLEC3	CD59	MIC11	CD117	KIT
CD9	MIC3	CD34		CD61	ITGB3	CD123	IL3RA
CD10	MME	CD35	CR1	CD62L	SELL	CD131	CSF2RB
CD11a	ITGAL	CD36	GP3B	CD62p	SELP	CD137	TNFRSF9
CD11b	ITGAM	CD37	TSPAN26	CD63	TSPAN30	CD139	
CD11c	ITGAX	CD38	ADPRC 1	CD66a	CEACAM1	CD147	BSG
CD13	ANPEP	CD40	TNFRSF5	CD66b	CEACAM8	CD162	SELPLG
CD14		CD41	ITGA2B	CD66c	CEACAM6	CD177	NB1
CD15	FUT4	CD42b	GP1BA	CD66d	CEACAM3	CD222	IGF2R
CD16	FCGR3A	CD43	SPN	CD66e	CEACAM5	CD223	LAG3
CD17		CD44	MDU2	CD69	CLEC2C	CD230	PRNP
CD18	ITGB2	CD45	PTPRC	CD70	TNFSF7	CD235a	GYPA
CD19	LEU12	CD46	MCP	CD71	TFRC	CD235b	GYPB
CD20	MS4A1	CD47	MER6	CD72	Lyb-2	CD253	TNFSF10
CD21	CR2	CD48	BCM1	CD79a	MB1	CD274	PDL1
CD22	SIGLEC2	CD49d	ITGA4	CD80	LAB7	CD279	PD1
CD23	FCER2	CD50	ICAM3	CD86	LAB72		

Cytokines and Chemokines

GM-CSF	CSF2	IL-16	IL16
IFN alpha	IFNA1	IL-18	IL18
IFN gamma	IFNG	IL-37	IL37
IL-1alpha	IL1A	LIF	LIF
IL-1beta	IL1B	TNF alpha	TNF
IL-2	IL2	TSLP	TSLP
IL-4	IL4		
IL-6	IL6		
IL-7	IL7	Eotaxin-1	CCL11
IL-8	CXCL8	MIP-1 alpha	CCL3
IL-10	IL10	RANTES	CCL5
IL-12B	IL12B	MCP-2	CCL8
IL-13	IL13	MCP-3	CCL7
IL-15	IL15	MIP-4	CCL18

Additional Proteins

ANCA	PRTN3	p53	TP53
BDNF	BDNF	p72Syk	SYK
Cox1	PTGS1	TRYG1	TPSG1
CYTL	CYTL1	TSLPR	CRLF2
IgE	FCER1A	tTG	TGM2
HLA I		VEGF	VEGFA
HLA-ABC			
HLA-DP	HLA-DPB1		
HLA-DQ			
HLA-DR			
MPO	MPO		
NT-4	NTF4		
NTAL	LAT2		
pan HLA-class II			

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