

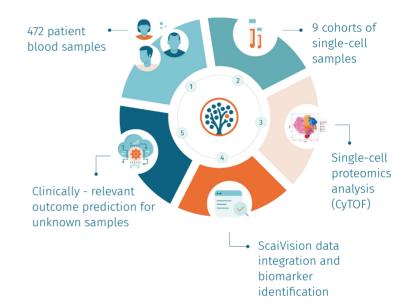
# Generating clinically relevant insights from single-cell data

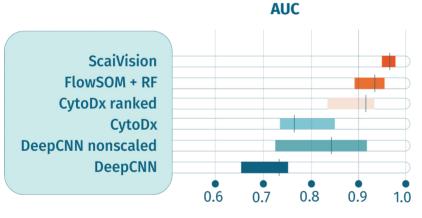
# ScaiVision performs **best-in-class** at sample class prediction

### **Key advantages of ScaiVision**

- Entirely agnostic to cell clusters or pre-determined cell types
- Scalable analysis of datasets up to hundreds of millions of cells without sub-sampling
- Retains single-cell resolution throughout the interpretation stage & calculates the clinical endpoint-associated score for every single cell

### **Benchmarking study**





### **Results**

- Outperforms all public competitor algorithms at the task of predicting CMV infection status
- ScaiVision attains a mean AUC of 0.96 across all 10 cross-validation splits

### **Conclusions**

- ScaiVision performs as the best-in-class algorithm at identifying molecular biomarkers, which accurately predict clinical status of the samples
- Analysis with ScaiVision unlocks an unparalleled level of high-resolution and clinically relevant discoveries in single-cell datasets





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## True precision medicine through single-cell science

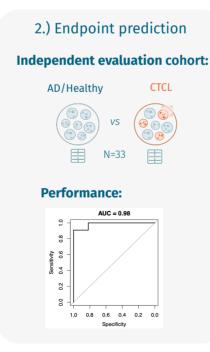
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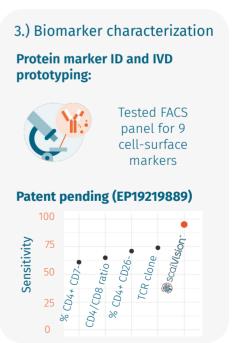
We have built a proprietary cluster-free, unbiased, and highly sensitive AI platform, **ScaiVision**, to accelerate the pace of drug development.

Indication	Clinical question	Technology	Tissue	<b>Patients</b>	Outcome and Status
Sezary Syndrome (CTCL)	Diagnosis of CTCL	СуТОБ	PBMCs	60 + 33	0.98 AUC; patent filed (EP19219889) Assay prototype
Endometriosis	Diagnosis of endometriosis	scRNA-seq	PBMCs	42 + 60	0.9 AUC; patent filed (EP21204845)
		scRNA-seq	Endometrium	35 + 30	0.9 AUC; patent filed (EP21204856) Clinical validation and assay development
Diffuse Large B-Cell Lymphoma (CAR-T cells)	Prediction of therapy response and toxicity	scRNA-seq	Infusion cell product	23	0.8 AUC efficacy prediction 1.0 AUC toxicity prediction
Refractory rheumatoid arthritis	Treatment mode of action	scRNA-seq	Murine hind-limbs	20	1.0 AUC Service project
Solid tumors (TIL therapy)	Prediction of therapy response and toxicity	CITE-seq, TCR-seq	Infusion cell product, PBMCs	55	ongoing Service project
Solid tumors (cancer vaccine)	Prediction of therapy response and toxicity	FC, IHC, proteomics, etc	PBMCs, serum, tumor	20	Descriptive analysis Service project
Autoimmunity	Prediction of therapy response, toxicity, MoA	CITE-seq, TCR-seq, FC	PBMCs	40	ongoing Partnering project
Cell therapy	Prediction of manufacturing success	CITE-seq	PBMCs	24	ongoing Partnering project

Scailyte discovers an accurate diagnostic biomarker signature for Cutaneous T-Cell Lymphoma (CTCL)

# 1.) ScaiVision Model Training Experimental setup: AD/Healthy CTCL VS Internal split: 70% training, 30% validation Technology: CyTOF of PBMCs 36 protein markers, 3.5 million cells B.cells CD4.T.cells CD4.T.cells CD4.T.cells CD6.T.cells CD6.T.cells Unknown









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