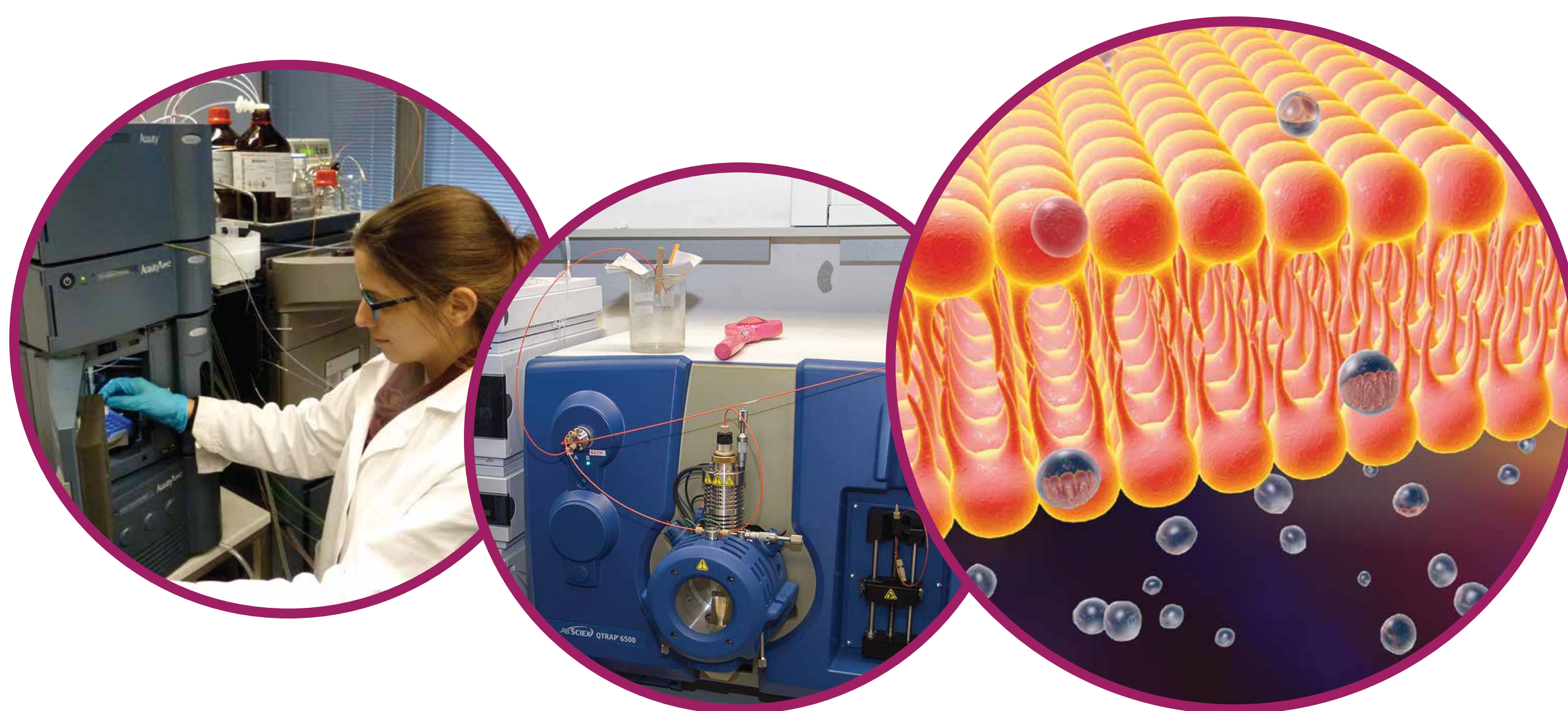




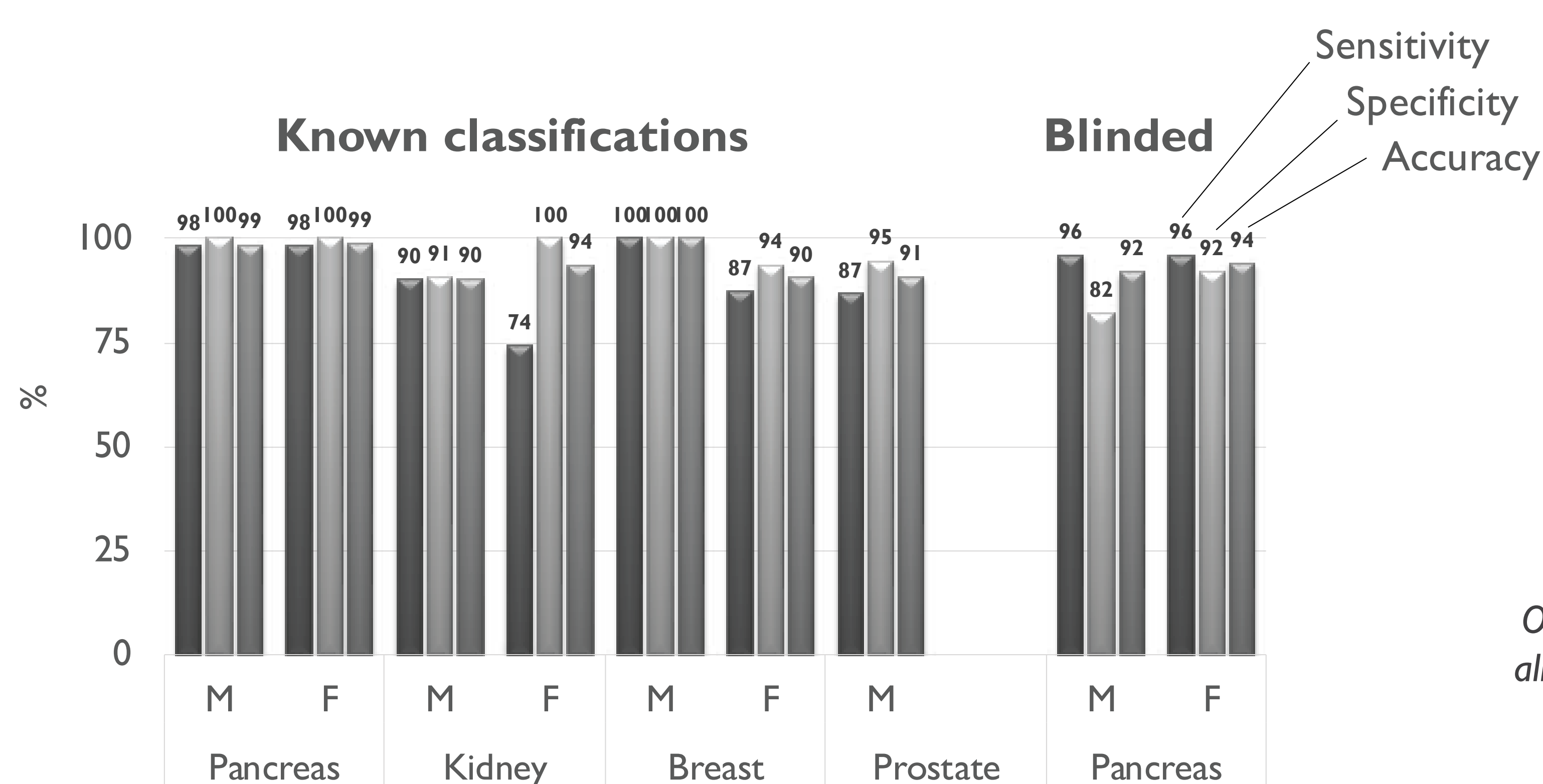
INTENDED USE

- MS lipidomic profiling of human serum or plasma
- high-throughput screening test for multiple cancers
- accurate supporting information to the clinicians
- improved overall prognosis of patients



CLINICAL STUDIES

Discovery retrospective studies performed on a limited sample sets.



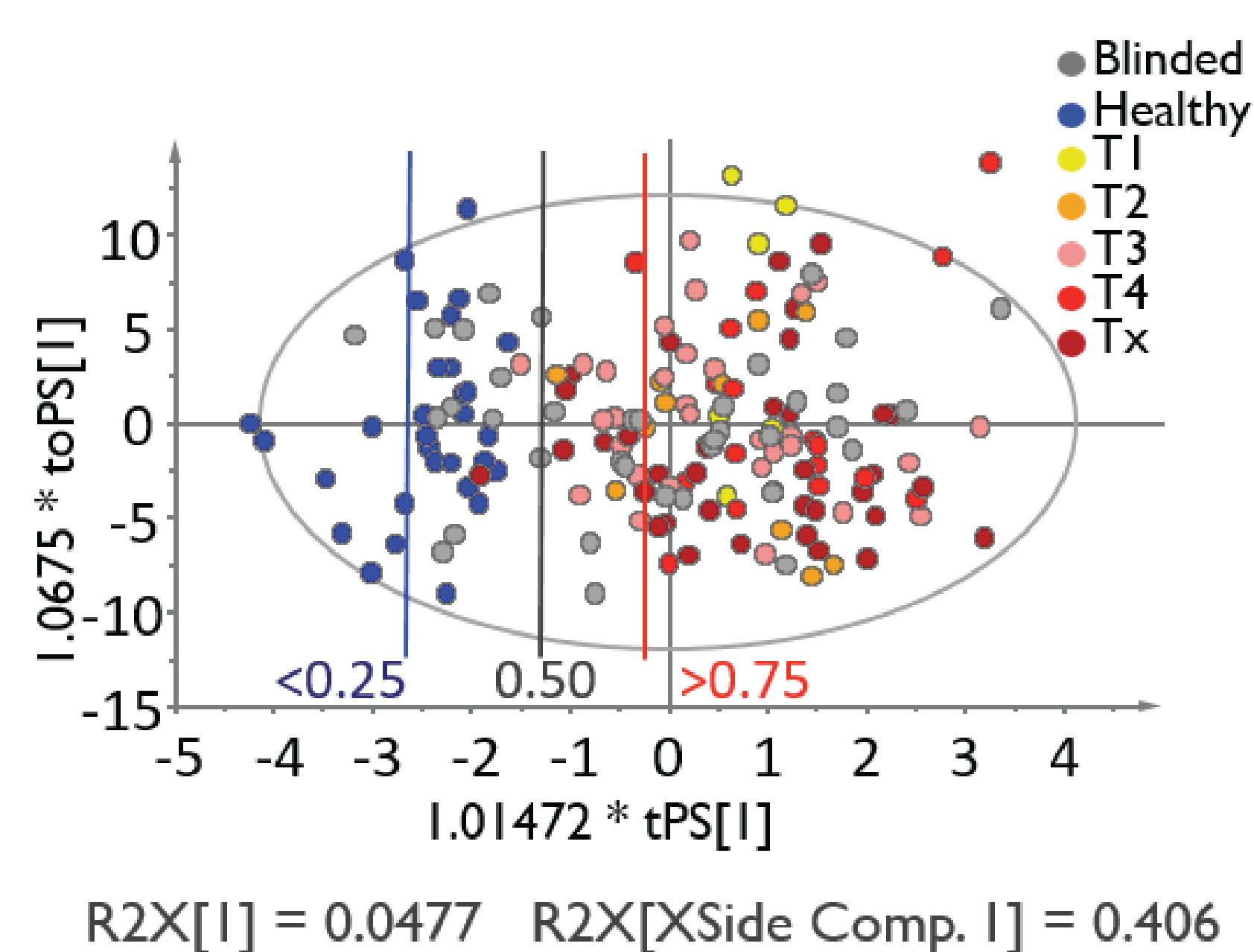
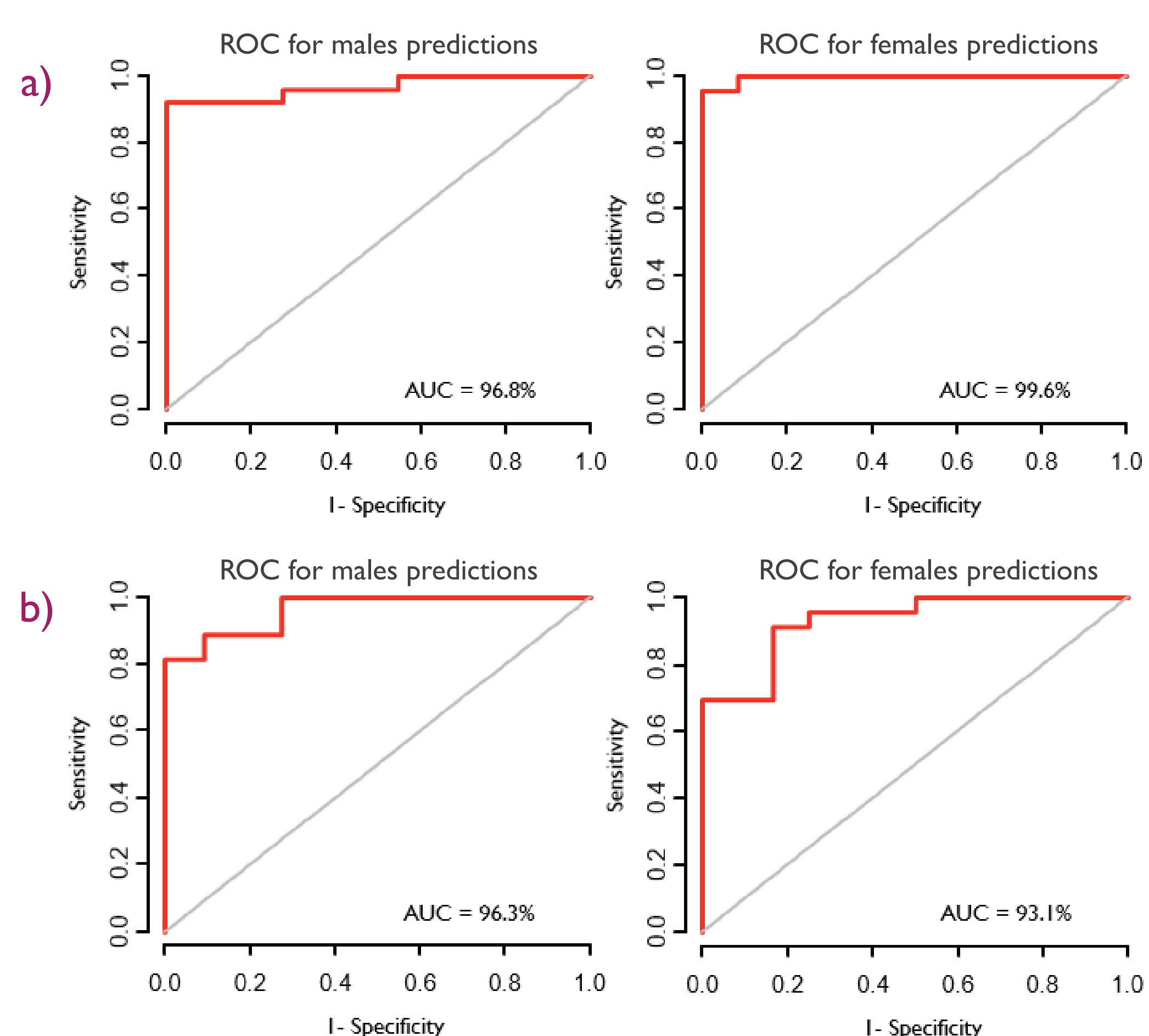
STUDY	SAMPLES	SAMPLE
Pancreatic cancer	372*	serum
Kidney cancer	112**	plasma
Breast cancer	103**	plasma
Prostate cancer	67**	plasma

* 213 pancreatic cancer, 7 pancreatitis, 79 controls, 72 blinded; pancreatitis samples correctly determined as healthy;

** 112+103+67 multi-cancer samples, 180 healthy controls

OPLS-DA prediction model for UHPSFC/MS measurements of male samples of all tumor stages. Predicted response values show the probability of PDAC: >0.75 very likely PDAC, >0.5 PDAC, ≤0.5 healthy, and <0.25 very likely healthy.

Receiver operating characteristic (ROC) and area under the curve (AUC) values for blinded samples (PDAC), a) UHPSFC/MS and b) Shotgun MS.



DEVELOPMENT PLANS

The pilot clinical lab – to verify and optimize the OncoLipidomics tests.

Prospective multi-site study – to verify the clinical relevance on a larger sample set.

INVENTORS

prof. Michal Holčapek and coworkers

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PATENT SITUATION

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