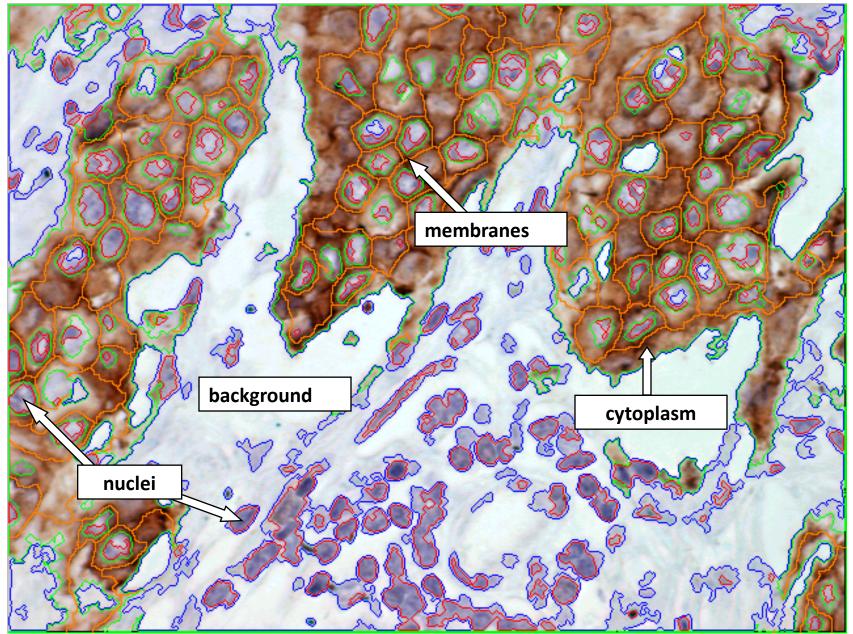
HercepTest™ method

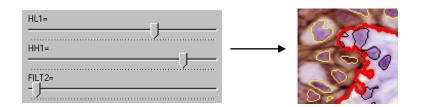
Staining Pattern	Sco re	HER2 Overexpression Assessment	
	(Report to treating physician)	
No staining at all, or membrane staining in less than 10% of the tumor cells is observed.	0	Negative	
A faint/barely perceptible membrane staining is detected in more than 10% of the tumor cells. The cells are only stained in part of their membrane.	1+	Negative	
A weak to moderate staining of the entire membrane is observed in more than 10% of the tumor cells.	2+	Weakly positive	
A strong staining of the entire membrane is observed in more than 10% of the tumour cells.	3+	Strongly positive	

Her2neu expression – segmentation



Her2neu expression – workflow

The user visually sets segmentation parameters



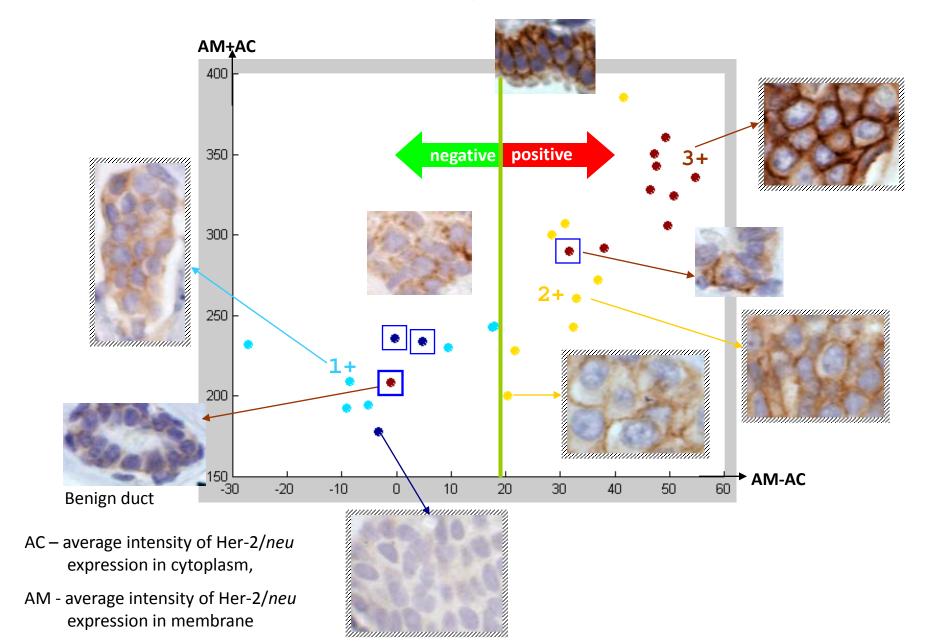
The image processing server computes the measurements for all relevant images and puts the measurements in the database

lmage #	Average intensity in cytoplasm	Area of cytoplasm (in%)	Average intensity in membrane	Area of membrane (in%)
1				
				•••
N				

The user can view the distribution of measurements and request searches of images by the ranges of measurements

(see next slides)

Scatterplot of images in feature space



Sorting images by computed classification and membrane intensity

