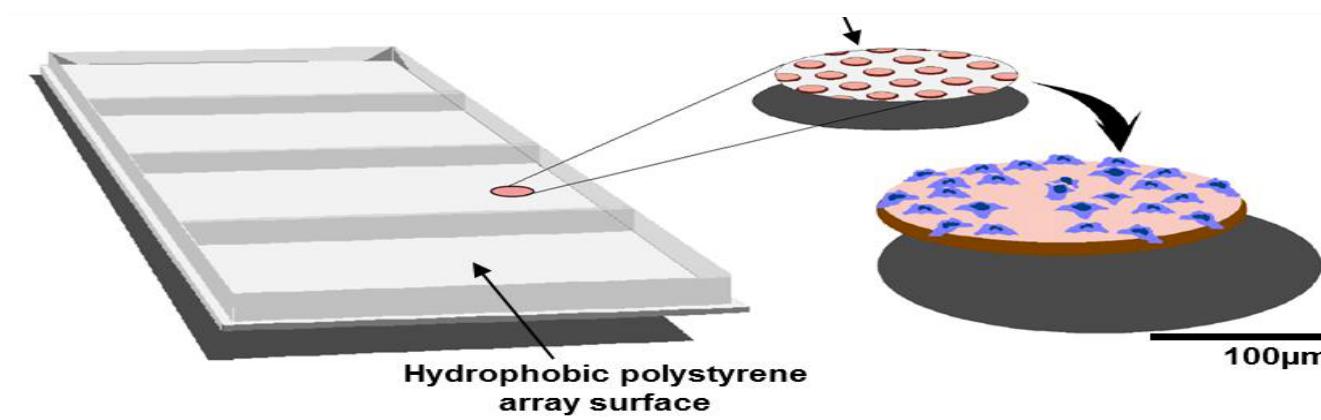


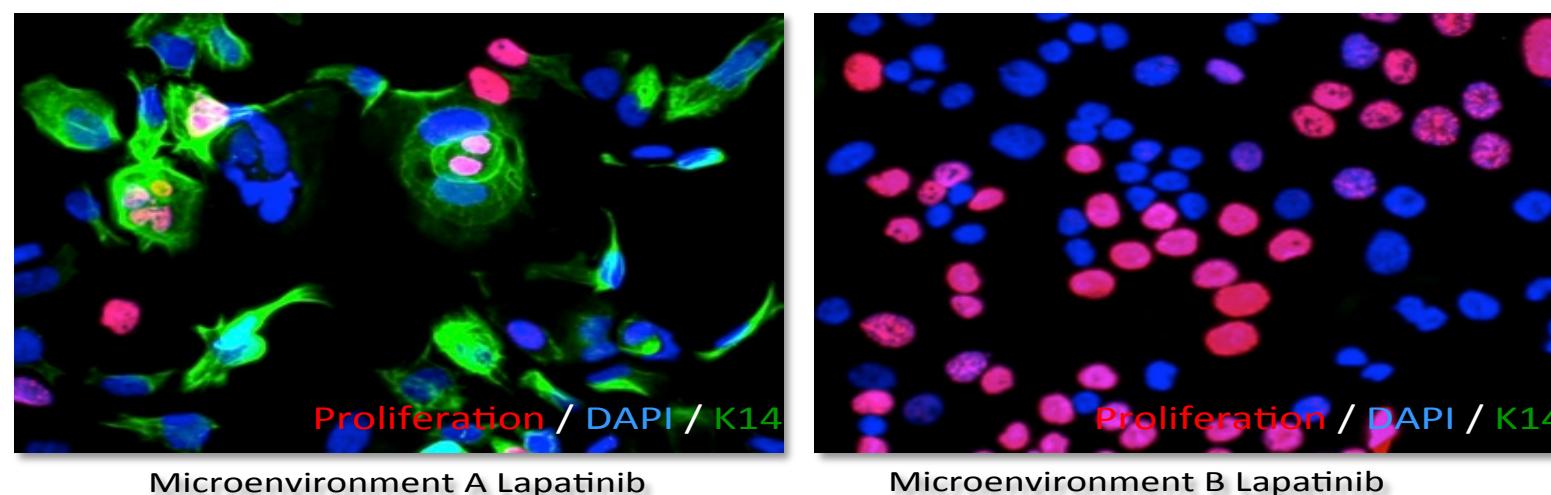
Micro-Environment Perturbagen LINCS: studying micro-environment signals, regulatory networks, and cellular phenotypes

Each cell-spot assesses response to a specific microenvironmental perturbation

20 cell lines
~3,000 perturbations

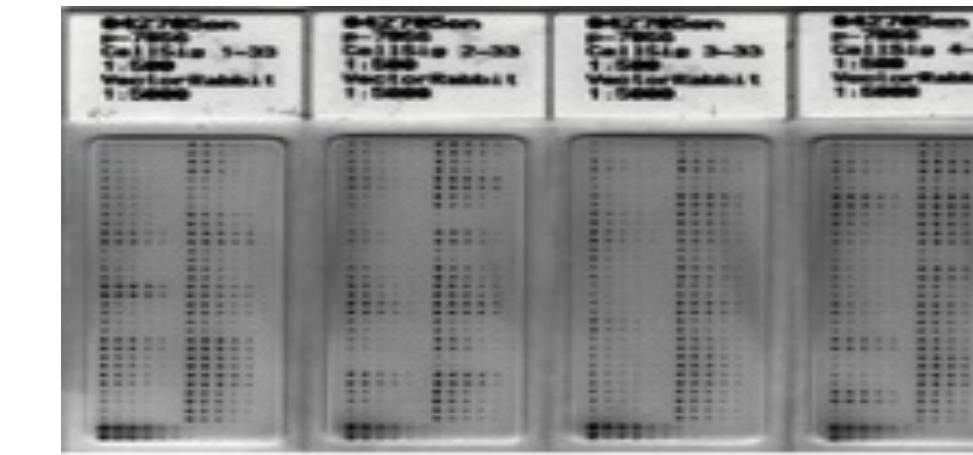


2 perturbagens per spot:
1 ECM + 1 GF

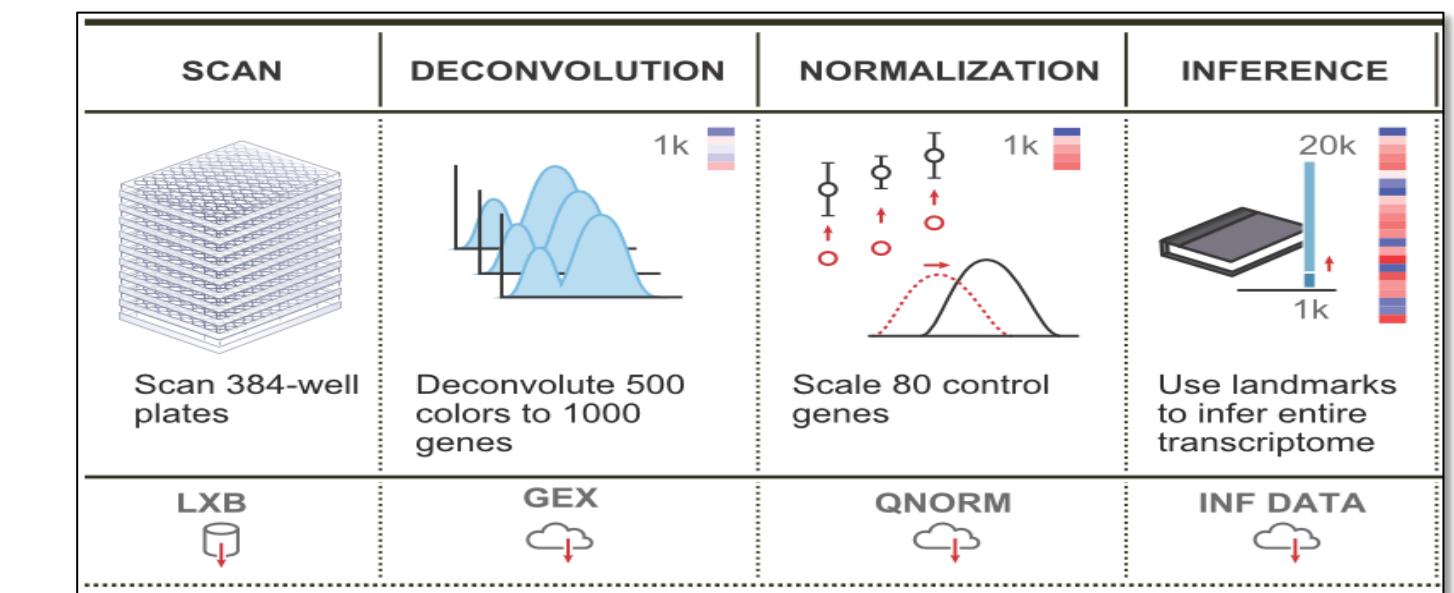


Immunofluorescent staining for **10+ biological endpoints**

Quantitative image analysis algorithms to identify morphology, cell cycle, staining intensity,...



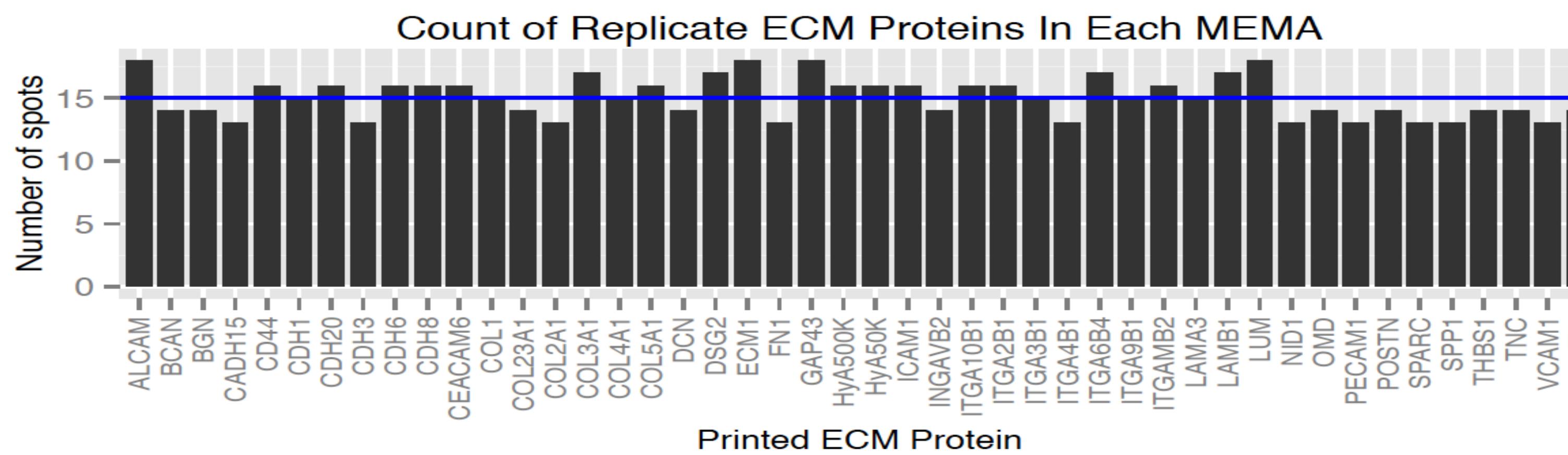
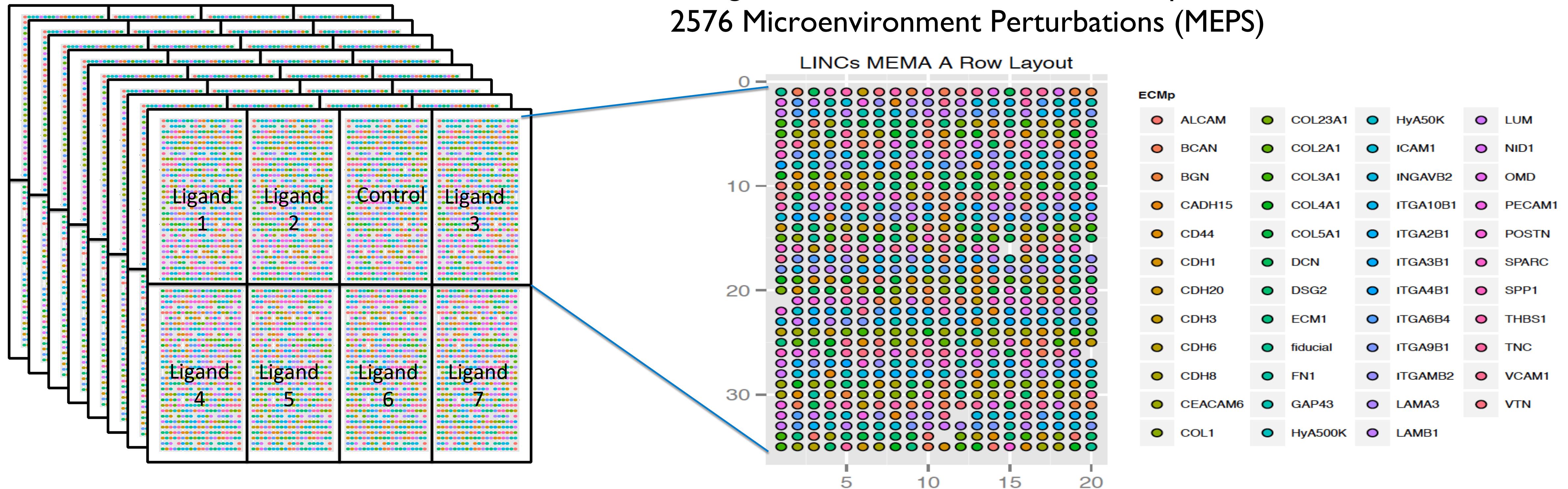
Reverse Phase Protein Lysate arrays to assess up to **500 proteins and phospho-proteins**

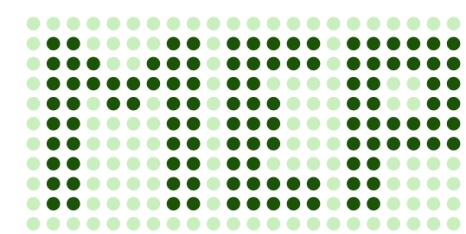


L1000 assay to assess **1000 landmark genes**

MEMA Layout and Replicate Count

56 ligands added in solution, 46 ECMS printed
2576 Microenvironment Perturbations (MEPS)





LINCS Imaging Workflow

