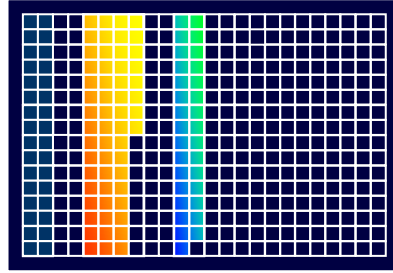


Identification of an effective and target-specific substrate

Esterases

87 esters



- **56** p-Nitrophenyl (Absorbance)
- **31** AMC (Fluorescence)

Screening

- 384-well format
- Kinetic measurement, depending on readout system

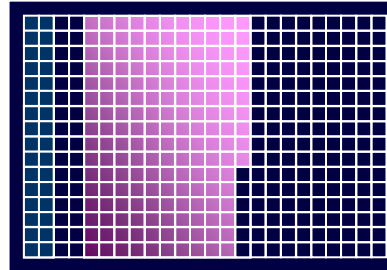
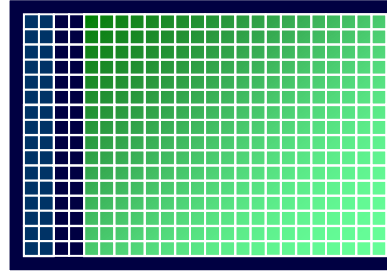
Readout

- Absorbance
- Fluorescence
- Luminescence

Identification of a target-specific substrate for HTS

Proteases

490 peptides



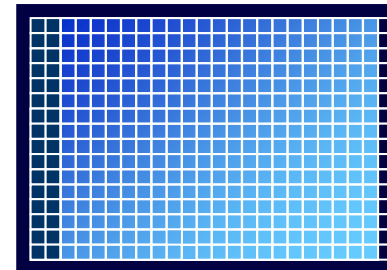
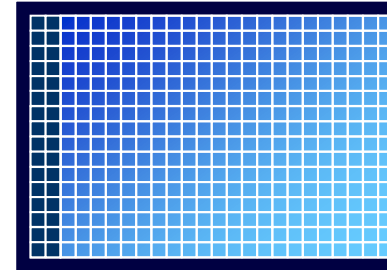
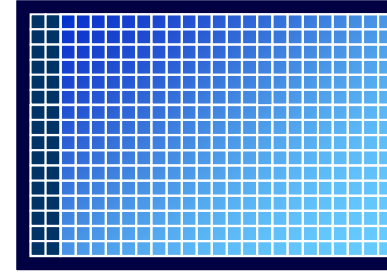
- **170** dabcyl-edans (8-15 residues)
- **320** AMC (1-8 residues)

Impact on:

- catalytic efficiency (k_{cat} / K_m)
- RZ'

Kinases

1040 peptides



- **11** residues
- Ser / Thr / Tyr