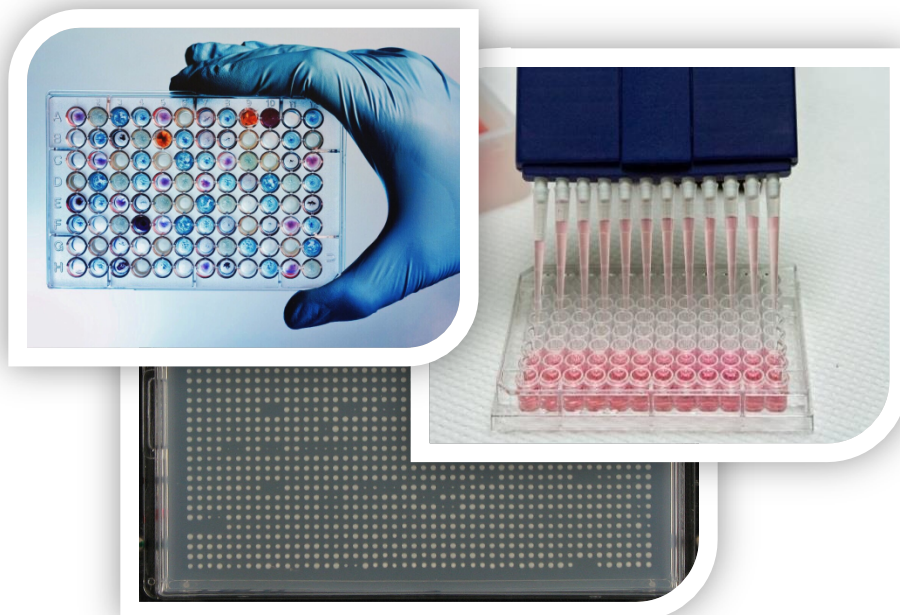


Overview:

Participants will learn modern **high-throughput** approaches that will prepare them to design, validate, and perform cutting-edge screens and experiments.



Lectures:

1. What is high-throughput discovery science?
2. What makes a *good* screen?
3. Screens and technology.
4. Chemical libraries and databases.
5. Cutting-edge screening technologies.

Labs:

- | | |
|--|-----------|
| 1. Molecular epidemiology qPCR screen | weeks 1-2 |
| 2. Screen for small molecules that inhibit <i>Delftia acidovorans</i> growth | weeks 3-4 |
| 3. Screen of stressors and sugar consumption of wild yeast strains | weeks 5-6 |
| 4. <i>In silico</i> image analysis screen | week 7 |