

A protein resource for drug discovery

One of the programs within the Vinnova funded CellNova is focusing on generation of the world's largest protein resource. A resource that is used for drug discovery.

The produced proteins are used for assay development, validation of targets, selection of binders and in deptanalysis of the protein production and the resulting product.









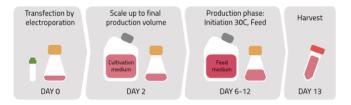




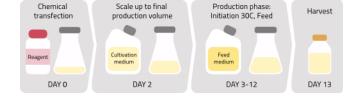
Protein production in mammalian cells

Three different scales:

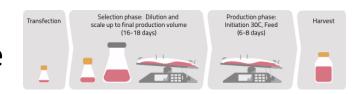
Small



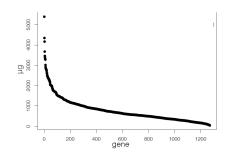
Mid



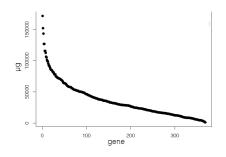
Large



Protein amounts



Small $\bar{x} = 755 \mu g$



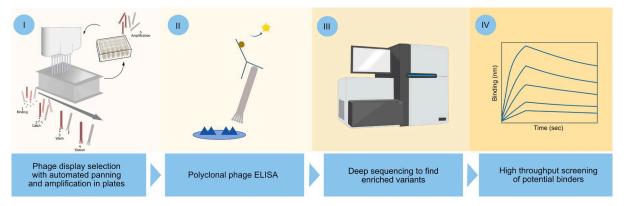
Mid $\bar{x} = 35 \text{ mg}$





Development of a high-throughput selection system for recombinant

binders

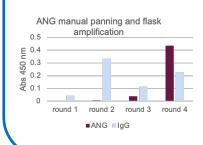


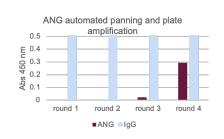


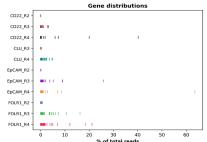
Representative results for selections against CellNova targets

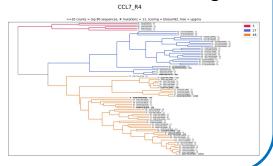
Phage ELISA of selection outputs

Data showing selection success for different targets





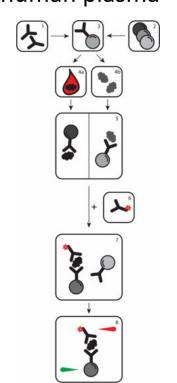


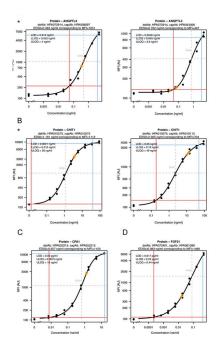






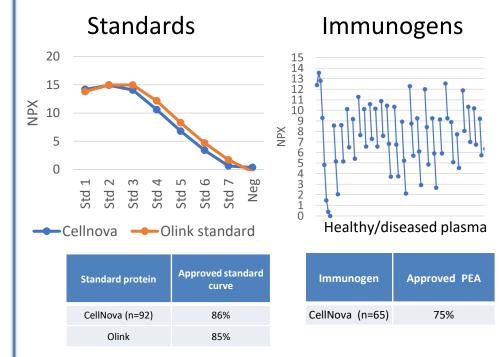
Immunoassay development to determine endogenous protein concentrations in human plasma





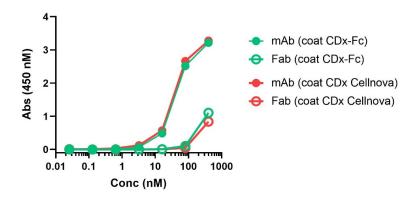
YATLAS ANTIBODIES

Using CellNova proteins in proximity extension assays (PEA)





Binding to target molecule (ELISA)

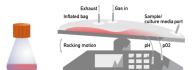


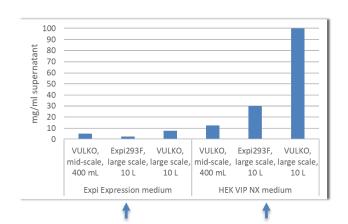
The CellNova proteins enables assay development with relevant target proteins



Screening of four commercial media for transient protein prod.

- HEK TF
- BalanCD
- HEK VIP NB
- HEK VIP NX





Original Best performer

