



Road to DDD







SciLifeLab DDD Platform – 2022

- 40+ Industrially experienced scientists at 11 units
- 11 Platform Scientific Directors – Area expertize and network
- Portfolio:
 - 20 DDD_{PROGRAM} and DDD_{COLLABORATIVE} projects
 - 40 DDD_{SERVICE} projects
- National Platform Steering Group

- Project prioritization, budget and strategy

<u>Håkan Billiq</u> (GU, Chair), Lars Lannfelt (UU), Maria Jenmalm (LiU), Lars Ny (GU), Anna Sandström (AZ), Outi Vaarala (Orion Corporation, FI), Tomas Lundquist (former Pretzel Therapeutics)

International Platform Advisory Board – Long-term strategic input

<u>Kjetil Taskén (</u>Prof. Oslo Cancer Cluster, NO), **Fiona Marshall** (Head of global research Merck, US), **Justin Bryans** (former Head of research LifeArc, UK), **Lorenz Mayr**, (Vector Biopharma, CH), **Lovisa Afzélius**, (Flagship Pioneering, US)





SciLifeLab DDD Platform – host universities





Where are we heading?



Started 7 years ago >40 scientists at 6 universities Ideas suggested and evaluated <u>in close collaboration</u> <u>with innovation systems</u>*

> 18 DDD_{PROGRAMS} running / year

SM Abs ON NM

SciLifeLab platforms & data Prioritization by national steering group

New drugs by innovative

private enterprises

Research community



"New therapies are increasingly dependent on new technologies" DDD International platform advisory board

Focus areas for technology development

- Drug discovery Aided by Machine Learning (DAML)
- Therapeutic Oligonucleotides (TO)
- Display & Selection (DaS)
- Proximity induced agents and protein Degraders (PD)

* Limited funding



Traditional DDD workflow









Drug discovery Aided by Machine Learning









Drug discovery Aided by Machine Learning









A call for new projects to DDD out *in May* – suitable for DAML

- Are InfraLife, MAX IV or others interested to take part in a DDD call for DAML projects?
 - Call for projects
 - Crystallization efforts
 - Solving structures
 - Fragments screens
 - Sequencing libraries
 - Machine learning models
 - Applications of AlphaFold 2