

Necessity is the mother of invention – how an unprecedented global need facilitated new constellations within biotech

Medicon Valley Alliance November 2<sup>nd</sup> 2020 Martina Kvist Reimer, EVP





### Disease X- The "known unknown"

A serious international epidemic could be caused by a pathogen currently unknown to cause human disease.

It is one of the diseases **prioritised by the World Health Organization (WHO)** because of its epidemic potential and because there are no or insufficient biomedical countermeasures.

### Covid-19 is Disease X

It has resulted in a humanitarian and economic global crisis, unprecedented in modern times, as it is a novel pathogen, no vaccines against it currently exist.



Why Plan S Principles and Implementation coAlition S Apply for Transformative Journal status FAQ Contact



#### About Plan S

Plan S is an initiative for Open Access publishing that was launched in September 2018. The plan is supported by coAlition S. an international consortium of research funding and performing organisations. Plan S requires that, from 2021. Scientific publications that result from research funded by public grants must be published in compliant Open Access journals or platforms.



More than 50 publishers- including Elsevier, Springer-Nature and Wileyhave removed all access controls on Covid-related content, both current and archival





# ② CORONAVIRUS GLOBAL RESPONSE €15.9 billion

Pledges made for universal access to tests, treatments and vaccines against coronavirus and for the global recovery

# Financial support for COVID-19 R&D collaborations?

### Effects for Danish and Swedish biotech?

COVID-19 projects: Funding by governments and foundations- some examples



https://www.newsoresund.se/coronavirus-synliggor-skillnader-mellan-danmarks-och-sveriges-forskningsfinansiering/ 10



# Horizon 2020- funded COVID-19 related projects

SCI-PHE-Coronavirus2020





# Horizon 2020- funded COVID-19 related projects

SCI-PHE-Coronavirus2020



https://ec.europa.eu/info/sites/info/files/research\_and\_innovation/research\_by\_area/documents/ec\_rtd\_cv-projects.pdf

# Horizon 2020- funded COVID-19 related projects

#### SCI-PHE-Coronavirus2020



https://ec.europa.eu/info/sites/info/files/research\_and\_innovation/research\_by\_area/documents/ec\_rtd\_cv-projects.pdf

13

# **RED GLEAD DISCOVERY**

minimum

SARS-COV-2

NIE NE

14

CCINE

20

VACCINE

Coronavirus

SARS-CoV-2

1000

VACCINE

Coronavirus

SARS-CoV-2

11

VACCINE

SARS-CoV-2

THE REPORT OF

VACCINE

SARS-CoV-2

VACCINE

Coronavirus

SARS-CoV-2

THILLIPPIC

VACCINE

Coronavirus

SARS-CoV-2

ACCINE

Coronavirus

SARS-CoV-2

VACCINE

MRS-CoV-2

FREE FEELERS.

### Collaboration1: SARS-CoV-2 - vaccine Biovacc-19

RED GLEAD DISCOVERY



June 2<sup>nd</sup> 2020

Sørensen, B., Susrud, A., & Dalgleish, A. (2020). Biovacc-19: A Candidate Vaccine for Covid-19 (SARS-CoV-2) Developed from Analysis of its General Method of Action for Infectivity. *QRB Discovery*, 1-17. DOI:<u>https://doi.org/10.1017/qrd.2020.8</u>



Richard Johnsson, chef i peptilkemi, jobbar just nu för att utveckla ett vaccin mot coronaviruset. Foto: Johan Dernelius

#### Lundaföretaget utvecklar coronavaccin

UPPDATERAD 10 MARS 2020 PUBLICERAD 9 MARS 2020

Ett vaccin mot coronaviruset håller just nu på att utvecklas på Medicon Village i Lund. Det kommer dock dröja månader eller år innan det finns på marknaden.

# Collaboration 2: SARS-CoV-2 drug platform and project



Establish a working process between partners, using existing research tools and infrastructure that can be swiftly assembled to respond to future pandemics and produce novel drug candidates to unknown viral threats in the shortest time possible.

Validate a hitherto not addressed biological mechanism to inhibit virus replication to prevent spread of infection.

Discover and develop **small molecule drugs** against a specific set of proteins from SARS-CoV-2 to strengthen the generation of **effective countermeasures for the current** pandemic.

### A unique position for rapid progress







# Networks facilitate collaboration

#### Life science in Medicon Valley

Annual Meeting

- global outlook with regional impact

# **NUS digital DAJS** if e science **COLL** 20-23 april



# Håll i och håll ut!