



# LiteVax Adjuvant (LVA) for low-single-dose vaccines

LiteVax BV, Oss, the Netherlands

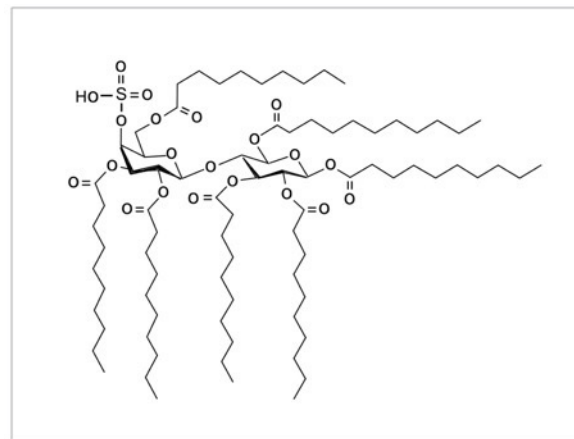
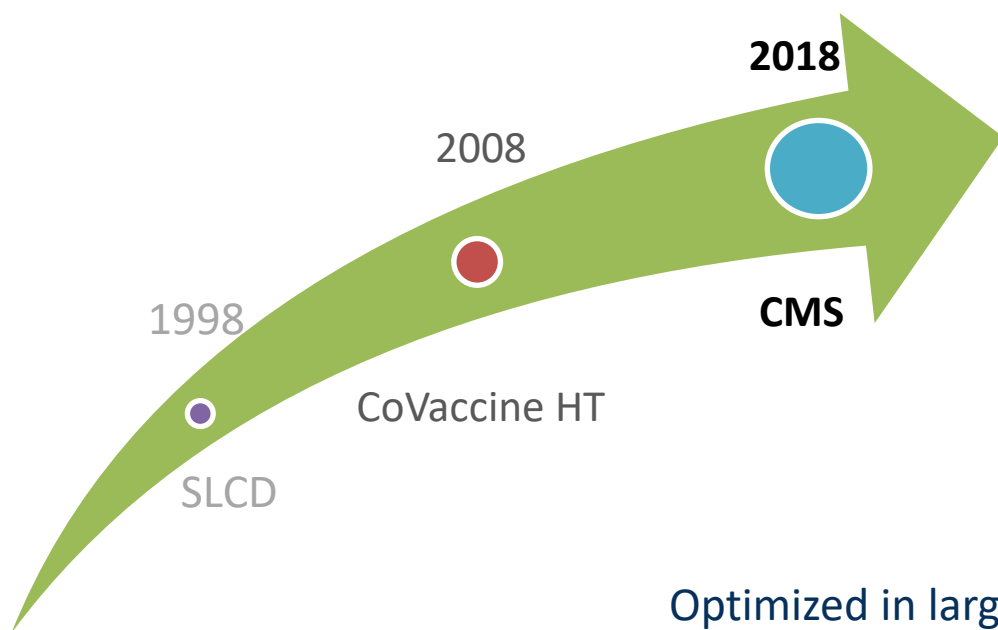
# LiteVax BV

- Expertise: >25 years vaccine adjuvants industry/start-ups
- Mission: Better vaccines by better adjuvants
- Value chain: idea - cGMP production - clinical trials
- Lean & Mean: Outsourcing and collaborations

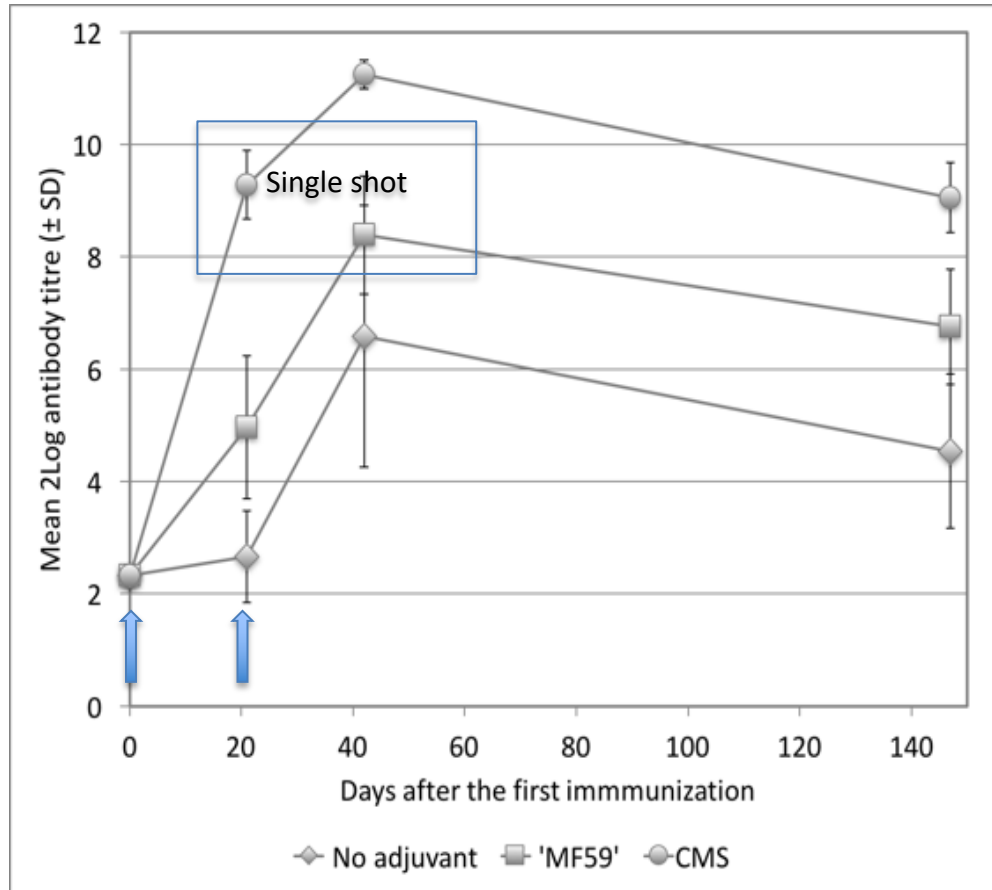
# LiteVax Adjuvant (LVA)

- Outcome lead finding/optimization pig model
- Superior efficacy, safety & quality
- Low-Single-Dose vaccine
- Fully synthetic, aqueous formulation, extremely stable
- Strong IP
- Scalable production process
- cGMP, ready-for-use, material available

# Carbohydrate fatty acid sulphate ester (CMS)



# Single-low-dose approach



HI antibody titers to H7N9 in ferrets after one and two immunizations with low dose of H7N9 plus LVA (= CMS) or Addavax (= MF59) as adjuvant.

A single injection with LVA reveals similar responses as two injection with MF59.

Hilgers et al. 2017

INDIGO: higher protection against Flu at lower dose

# Status LVA adjuvant

## Completed collaborative nonclinical studies

- Pandemic Flu in ferrets

- Seasonal Flu in ferrets

- Malaria recombinant glycoprotein in rabbits

- HER2-VLP in rabbits

- C. difficile* toxoid in rabbits and pigs

- SARS-CoV-2 subunit in pigs and hamsters

- Glycoprotein subunit in pigs

## Planned GLP tox studies (H1-2022)

- Repeated-dose study Flu in rabbits

- Acute study Flu in rabbits and rats

## Planned clinical studies (H2-2022)

- Phase I/IIa Flu

# LiteVax Business Model

Partnering with interested parties

Non-cGMP and cGMP material for preclinical and clinical evaluation

MTA

Non-exclusive license (exclusive)

Support implementation (IMPD, DMF, etc.)

# Focus on Pandemics

- Reaching out: collaboration COVID-19 vaccine development
- Single shot low dose COVID-19 vaccine
  - RNA vaccines: 2 shots, within 9 months 3<sup>rd</sup> shot needed
- LiteVax approach: single shot, low dose, protein vaccine

## Advantages:

- Low single dose, increase available vaccine doses
- High, durable protection

**LiteVax Adjuvant – Affordable – Accessible - Available**







# LITEVAX

*Lack of immunity is our concern*



THANK YOU for  
your attention