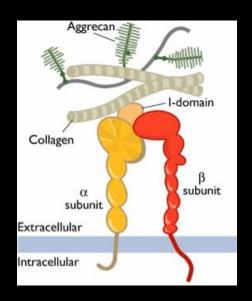


Evy Lundgren-Åkerlund CEO/CSO

Xintela's Business

Research and development is based on the integrin marker technology platform XINMARK®

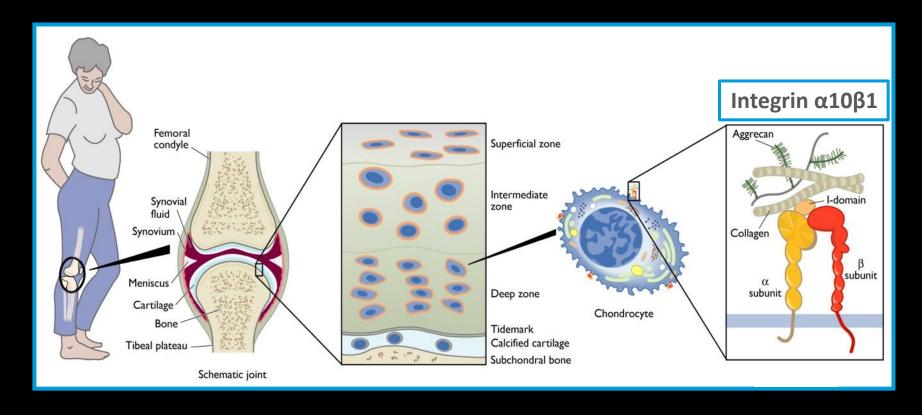
Current focus is stem cell therapies for osteoarthritis and antibody therapies for aggressive cancers



Integrin α10β1



Xintela's Integrin marker: Found on the surface of key cell types



Chondrocytes: Camper et al, JBC 1998

Mesenchymal Stem Cells (MSCs): Varas et al, Stem Cell Dev 2007

Cancer cells: Thorén et al, Cancers 2019



Xintela develops stem cell therapy for humans and animals

XSTEM®

Xintela's stem cell platform

MSCs from adipose tissue

MSC-selection using integrin $\alpha 10\beta 1$

Current indication focus:

Osteoarthritis
COVID-19 related ARDS



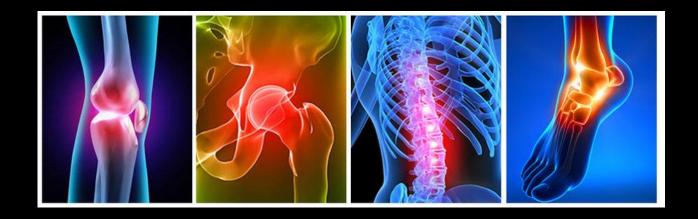
XSTEM produced in our GMP facility



Osteoarthritis – a huge and growing problem

In OA the cartilage is gradually degraded —painful and debilitating

Globally, 15% of all adults 60+ is estimated to have OA



The global market for OA drugs is estimated to grow from 6,8 billion USD (2019) to 10,1 billion USD (2024)*



Osteoarthritis – there is no treatment

Today, pharmaceuticals only treat the symptoms of OA by relieving pain and reducing inflammation

Over 1 million joint replacements are performed yearly in EU







A safe and effective allogeneic stem cell therapy for OA

- Stop further development of osteoarthritis
- Regenerate and heal the cartilage
- Reduce the need for joint replacement surgery

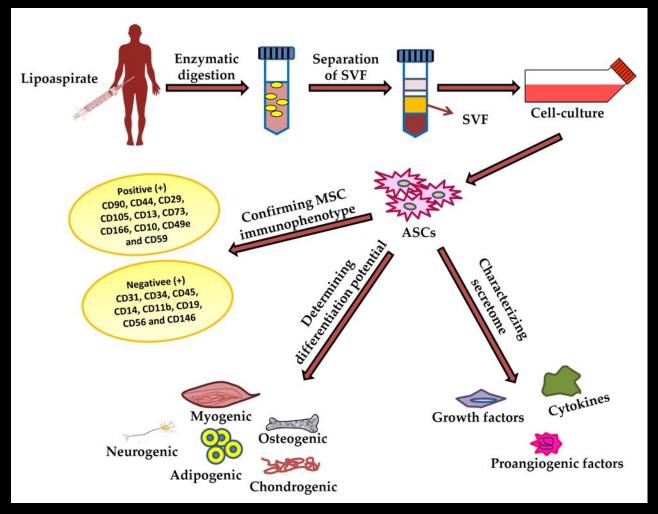


Injection of the stem cells into the OA joint One-step procedure

Stem cells from one donor can treat many patients – cost effective



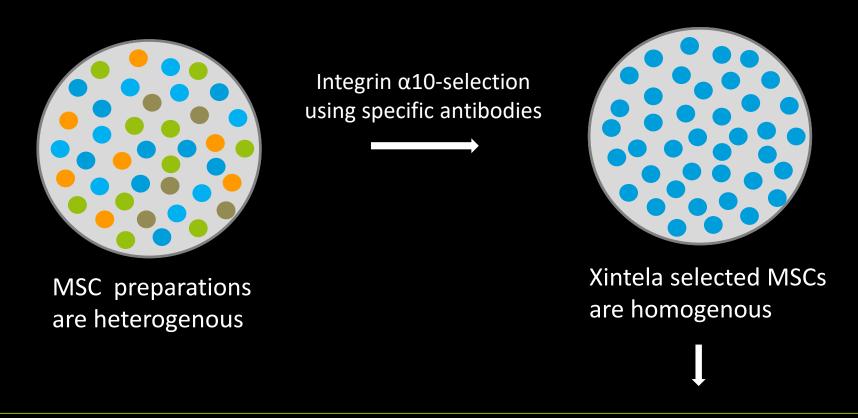
Xintela develops Stem Cells from donated adipose tissue



From: Kumar Dubey et al. Int. J. Mol. Sci. **2018**, 19(8), 2200



Xintela selected stem cells, XSTEM® are unique and IP protected Distinguishes Xintela from competitors

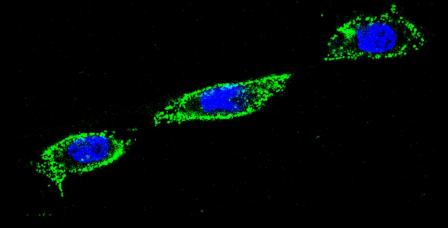


Homogenous and consistent MSC preparations



Both functional and regulatory advantages of integrin $\alpha 10$ selected MSCs, XSTEM®

- Homogenous and high quality stem cell preparations
- Consistent quality between donors
- High differentiation capacity
- Improved homing to damaged tissue
- High immunomodulatory capacity





Important milestones reached with XSTEM®

- ✓ Developed and patent protected the stem cell platform XSTEM®
- ✓ First product XSTEM-OA ready for clinical studies.

 Pre-clinical studies completed: Safety, efficacy and homing
- ✓ Planned First-in-Human study on knee OA patients, start 2021
- ✓ GMP facility and production process ready: Application to MPA during Q4 2020
- ✓ Promising results from XSTEM in preclinical study ARDS/COVID-19



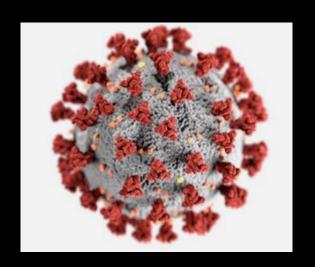
Horse study published: The American Journal of Sports Medicine, 2020, 1–12



XSTEM produced in our GMP facility



The COVID-19 (SARS-CoV-2) pandemic





Source: www.who.int

COVID-19 is a respiratory virus affecting the respiratory tract and lungs

Complications leading to death may include: respiratory failure, acute respiratory distress syndrome (ARDS), sepsis and septic shock, thromboembolism, and/or multiorgan failure, including injury of the heart, liver or kidneys

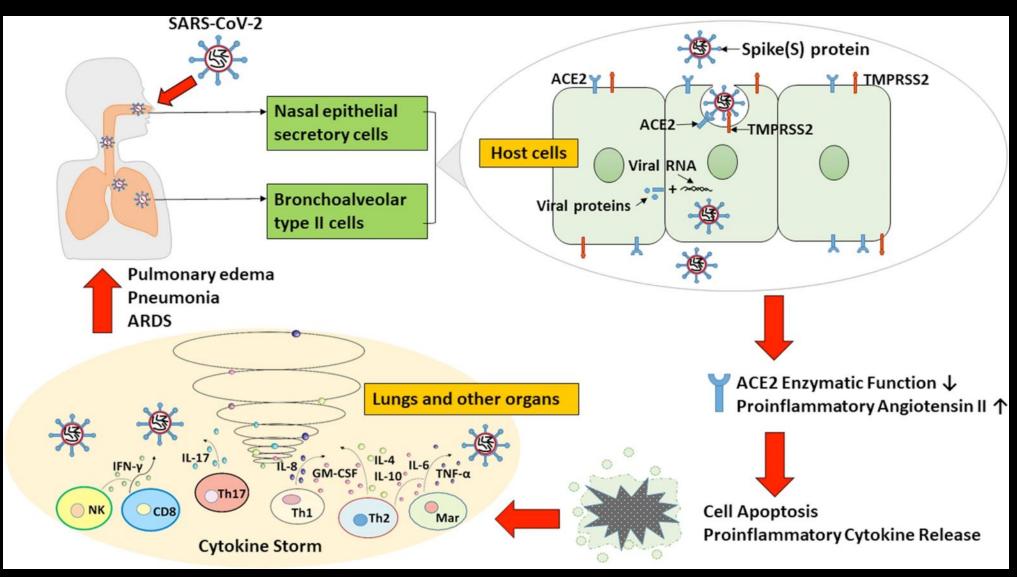


COVID-19 related ARDS

- ARDS Acute Respiratory Distress Syndrome respiratory complication caused by a variety of medical conditions including COVID-19
- Fluid leaking from the small blood vessels into the lungs and causing severe shortness of breath, difficulty breathing, organ failure and death
- No effective or approved therapies for ARDS
- ARDS treatment includes oxygen, respiratory support, treatment of any underlying disorders and supporting the patient's failing organs with various interventions
- Very high mortality reported



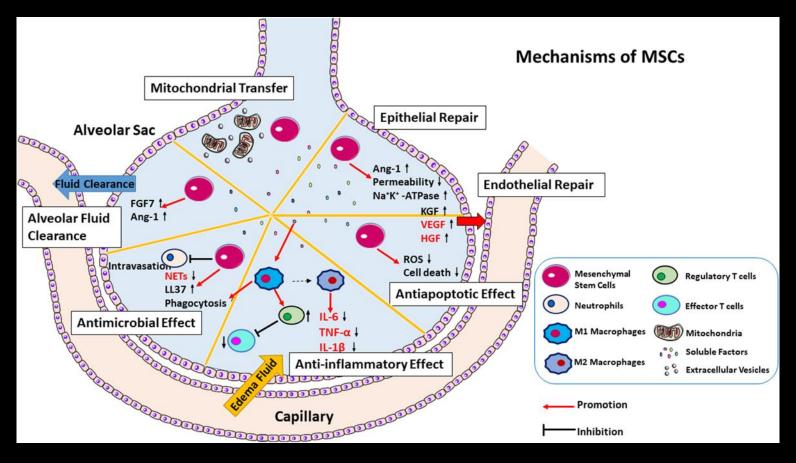
How COVID-19 causes ARDS





MSCs has the potential to treat COVID-19 related ARDS

MSCs have several biological actions including: regulation of immune cells, tissue repair, regulation of endothelial permeability and increased alveolar fluid clearance





Several clinical trials ongoing for treatment of COVID-19 ARDS

Many organisations and companies are looking towards cell therapy as a potential solution

Currently 22 clinical trials ongoing to develop MSC based therapies













Xintela's approach to COVID-19 ARDS

PRESS RELEASE

MAY 8, 2020

Xintela granted 1 million SEK from Vinnova

#Regulatory

Lund, Sweden, May 8, 2020 - Xintela has been granted 1 million SEK from Vinnova in the call for "Innovations in the wake of the crisis - Restructuring of society, operations and production in the wake of the corona epidemic.". The grant concerns the funding of a preclinical study to evaluate Xintela's stem cells for the treatment of Covid-19 patients with the fatal disease condition ARDS (Acute Respiratory Distress Syndrome).

- Pre-clinical testing of Xintela's selected MSCs, XSTEM, in a validated animal model of ARDS
- Collaboration with Cardio-thoracic surgery clinic, Skåne University Hospital, Lund
- XSTEM-ARDS produced in Xintela's GMP-ready manufacturing facility



Promising results in the ongoing ARDS study

PRESS RELEASE

OCTOBER 26, 2020

Xintela's stem cells show promising results in preclinical ARDS study

#Regulatory

Lund, Sweden, 26 October 2020 - Xintela announces today that the company's selected human stem cells XSTEM® show a therapeutic effect in ARDS (Acute Respiratory Distress Syndrome) in an ongoing preclinical study in pigs. ARDS is a life-threatening lung complication that may affect severely ill covid-19 patients.

Reversal of the critical ARDS condition:

Improvement in the lungs' ability to oxygenate blood and stabilization of the blood circulatory system



PRESS RELEASE

OCTOBER 29, 2020

Xintela receives 'intention to grant' decision from European Patent Office for stem cell product XSTEM

#Regulatory

Lund, Sweden, 29 October 2020 - Xintela announced today that the European Patent Office (EPO) has issued an "Intention to grant" decision for the patent application covering the company's stem cell product XSTEM®, consisting of integrin a10-selected mesenchymal stem cells.



Thank You!



More information: www.xintela.se

