Vision

Bring personalized medicine into everyday life
Vision

Personalized medicine

The right patient with the right drug at the right dose at the right time.

European Union

www.eurostemcell.org
Mission

Make your stem cells for personalized therapeutic treatments
Liver
Liver failure

Liver failure is one of the leading cause of death worldwide
Liver disease is the only major cause of death still increasing year-on-year

British liver trust & U.S. Department of health and human services
Available treatments

**LIVER TRANSPLANTATION**

**HEPATOCELLULAR TRANSPLANTATION**
Make your hepatocytes from (your) stem cells for a personalized cell therapy
Challenges of therapeutic treatment

Safety – Efficacy – Costs
Challenges of therapeutic treatment

Safety – Efficacy – Costs
Challenges of therapeutic treatment

Safety – Efficacy

uSTEM Patents
Make your hepatocytes from your stem cells for a personalized cell therapy

Induced pluripotent stem cells (iPSC): stem cells derived from somatic cells with reprogramming
μEng

Automatized and micronized cell culture chambers

IT 102013902181596
US 15/006,505
IT 102016000039189
US 62/323,391
µEng

Downscaling → new stem cell biology
μEng

Downscaling → new stem cell biology

50X efficiency → iPSC from aged patients, small sample

200X less reagent → cost effective
Un caso di successo
valorizzazione di un brevetto attraverso attività imprenditoriale
Un caso di successo valorizzazione di un brevetto attraverso attività imprenditoriale
The key players in the route to patent

Un caso di successo
valorizzazione di un brevetto attraverso attività imprenditoriale

Academia
Since 2010

IP
Since 2013

uSTEM
Since 2016

Business Angel
The key players in the route to patent
The key players in the route to patent

ACADEMIA

BioERA

- multidisciplinary lab (Chemical engineers, Biotechnologists, Bioengineer, Material Scientists)
- Young and dynamic environment
- Strong international network
- Collaborations with key companies
The key players in the route to patent

FUNDING AGENCY
Patents and publication

High-efficiency cellular reprogramming with microfluidics
Nature Methods 13, 446–452 (2016)
Un caso di successo
valorizzazione di un brevetto attraverso attività imprenditoriale
From research to management

PEOPLE

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From research to management

PEOPLE

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SEED CAPITAL

Valorizza le tue idee. Università Ca’ Foscari Venezia. 06/12/16
From research to management

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Since 2013

uSTEM
Since 2016

Business Angel
Patents and people allowed to…

- Attract seed capital, business angel
- Innovative startup
- Employment for 3 researchers (in 2016)
- Added value to the local business scenario
Team

Nicola Elvassore
CEO
Associate Professor at University of Padua and Shanghai Tech

Onelia Gagliano
Manufacturing & Production Manager
Ph.D Chemical Engineering

Elena Serena
R&D Manager
Ph.D Regenerative Medicine

Enrica Bertin
iPSC Production
Ph.D. Regenerative Medicine

Marketing
GMP expert
Automation engineer

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Valorizza le tue idee. Università Ca' Foscari Venezia. 06/12/16

Work hard, be positive and never give up
Phillip Frost, CEO OPKO

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