

## KIDNEY STEM CELL PRODUCTS FOR PRE-CLINICAL APPLICATIONS

VENTURE OF THE INSTITUTE FOR STEM CELL RESEARCH AND REGENERATIVE MEDICINE, UNIVERSITY HOSPITAL DUESSELDORF



## PROBLEM: SUB-OPTIMAL PRE-CLINICAL MODELS RESULT IN INEFFICIENT DRUG DEVELOPMENT

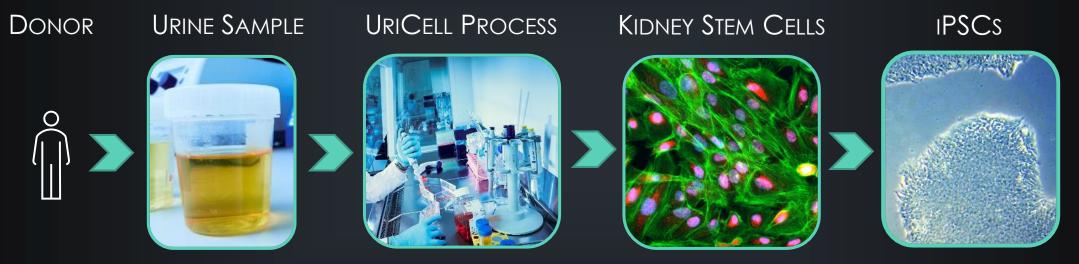
- Pre-clinical studies are long and costly
- Early organ-specific analysis are crucial
- Metabolites can cause kidney damage
- HUMAN KIDNEY CELLS ARE ONLY AVAILABLE FROM PATIENTS (VIA BIOPSY)







## SOLUTION: KIDNEY STEM CELLS FROM HUMAN URINE SAMPLES



Kidney Toxicology Disease Modelling Cell Therapy

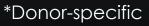




# URICELL IS FIRST MOVER AND AIMS TO SET A NEW STANDARD



	Urine-derived	Kidney-Biopsy Cells	Cell Lines	Animal Cells
Provider	UriCel.	Lonza		E Innoprot Speeding up drug discovery
Healthy Human Material	Yes	No	Yes	No
Customer-specific Cells	Yes	No	No	No
Broad Donor Availability	Yes	No	No	No
Reproducibility	Moderate*	Low	High	High
Risks/Ethical Issues	Low	High	Moderate	High
Associated Data	High	Low	Moderate	Moderate
Stem Cell Features	Yes	No	No	No





## CUSTOMER-ORIENTED ADVANTAGES ENABLE MORE EFFICIENT R&D

Cell Isolation from every individual
Ideal for personalized research/medicine
Customer-specific cell isolation
Broad donor portfolio (in vitro diversity)
Early kidney-specific analysis can speed up R&D
Perfect source for induced pluripotent stem cells (IPSCs)
High underlying clinical potential



## CELL PRODUCTS AND CELL-SERVICES FOR PRE-CLINICAL APPLICATIONS





## URICELL ALIGNS WITH CURRENT GLOBAL MARKET GROWTH TRENDS



#### **Market Figures**

Drug Discovery: 53 Bio. €, CAGR: 8% Stem Cells: 11 Bio. €, CAGR: 9%

#### **Business Case**

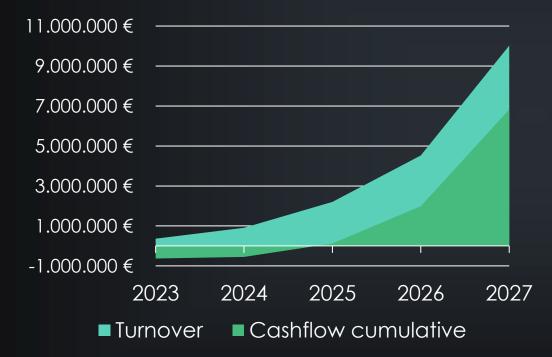
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More than 200 potential customers identified in DACH region Customer need: up to 100 Mio. Cells per project (value of 200.000€)

- Substitution of animal models with more human relevant models
- TREND OF PERSONALIZED RESEARCH/MEDICINE
- INCREASING IMPORTANCE OF STEM CELLS IN R&D AND THERAPY



## COME SIT WITH US AT THE CAP TABLE! TOTAL INVESTMENT NEED: 630.000€



- ✓ CURRENTLY EXIST-FT FINANCED
- ✓ 630K € TO ENABLE PREDICTED GROWTH IN PRE-CLINICAL AREA
- ✓ Break even will be reached in 2024
- ✓ 180K € EXIST-FT II CAN BE UNLOCKED
- ✓ 450K € EXTERNAL INVESTMENT NEEDED



## DEVELOPMENTAL STAGE WILL ALLOW FAST MARKET ENTRY

- MARKET LAUNCH OF CELL
   PRODUCTS & SERVICES
- PATENT APPLICATION

- Sales of 100.000€
- Market launch iPSCs



- FOUNDATION OF URICELL GMBH
- ASSET-TRANSFER FROM UNIVERSITY
- Operational & legal setup

- Sales of 50.000€
- FIRST FINANCING ROUND



### PIONEERS IN URINE-DERIVED KIDNEY STEM CELLS



Dr. Lucas Spitzhorn Founder, Scientist



Prof. Dr. James Adjaye Founder, Institute Director



Audrey Ncube Founder, Scientist



Lea May Leading Lab Tech



## URICELL: KIDNEY STEM CELL PRODUCTS FOR PRE-CLINICAL APPLICATIONS

Urine as a Source for Kidney Stem Cells

Enabling of more efficient R&D processes





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