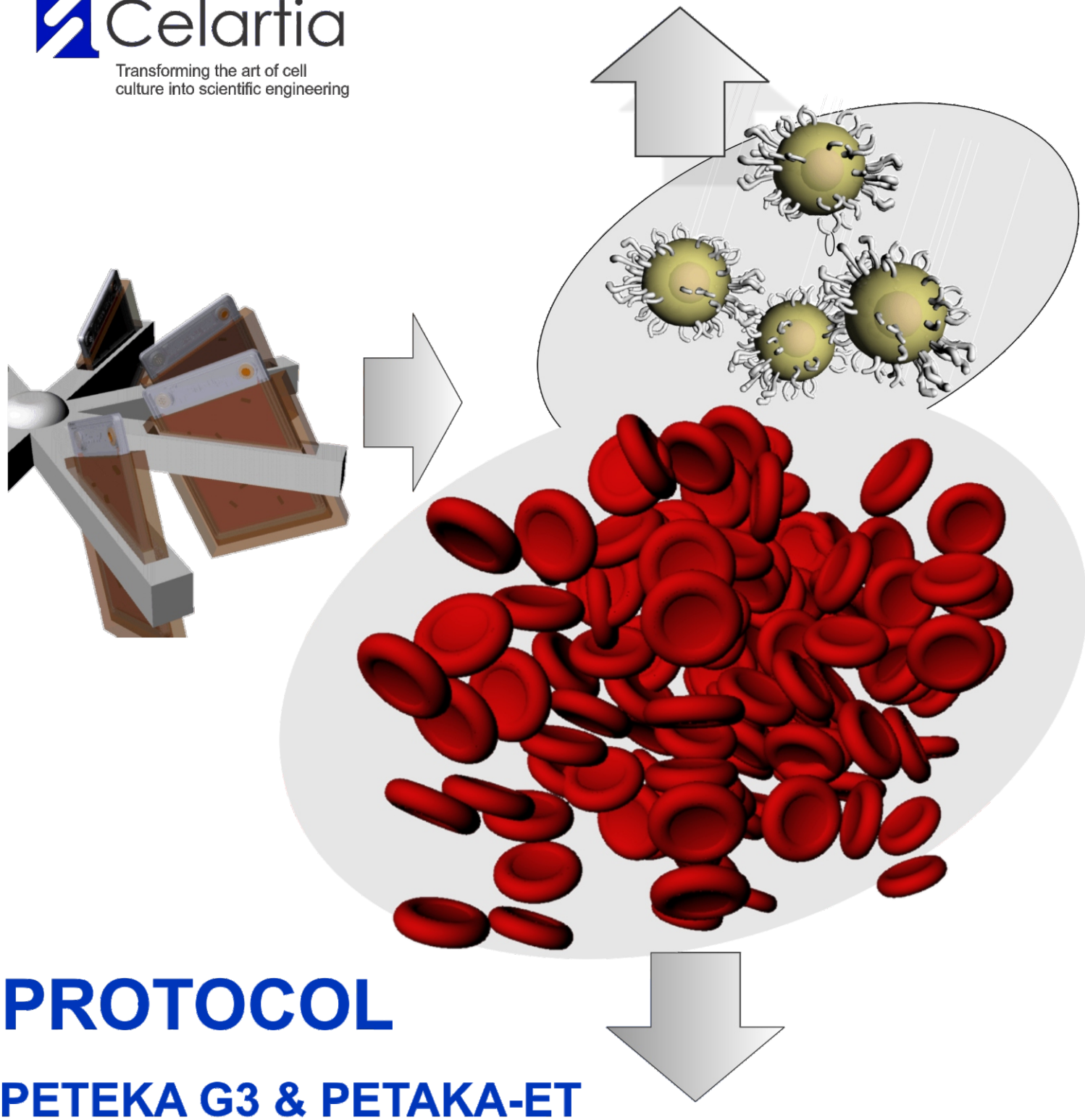
Celartia

Transforming the art of cell culture into scientific engineering



PROTOCOL

PETEKA G3 & PETAKA-ET
Umbilical cord blood processing and volume reduction for stem cell harvesting

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FAST
RELIABLE
SAFE

The cord blood stem cell recovery procedure of Petaka G3 is the most advanced and simplified system existing today in the world of stem cell research and therapy. The only equipment needed is a centrifuge with Petaka rotor and Petakas.

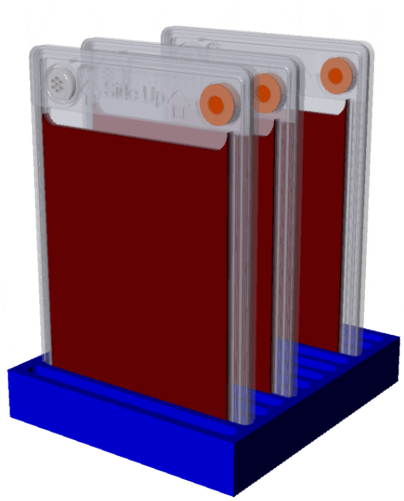
Designed to work safe and reliable in the most basic of clinics anywhere in the world, is also a powerful tool for research and development

The basic technology of Petaka Umbilical Cord Processing System allows maintaining the precursors cells, safe and well, in the same vial they are transferred from the umbilical vein.

All operations are performed inside a hermetic and sterile device which maintains the optimal O2 supply and pH levels stable without external supply or regulation.

After separation the different stem cells can be positively selected in Petaka by magnetic cell sorting and cultured in the same device, minimizing risks and cell loses.

Take the blood from the umbilical vein



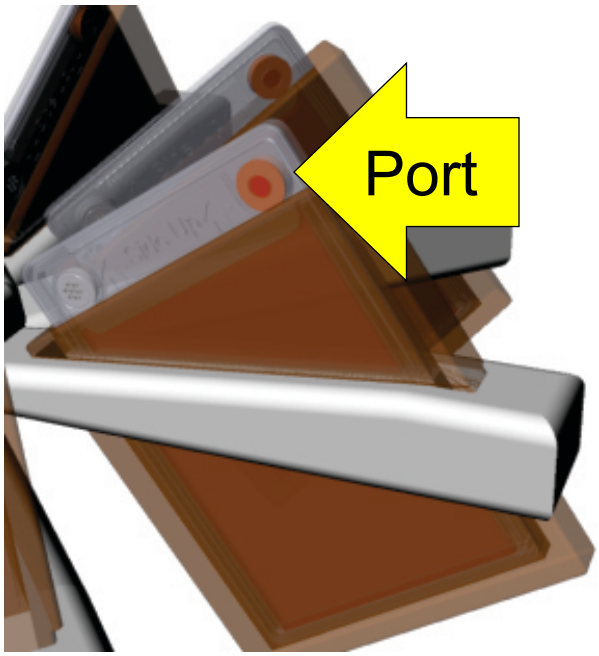
1

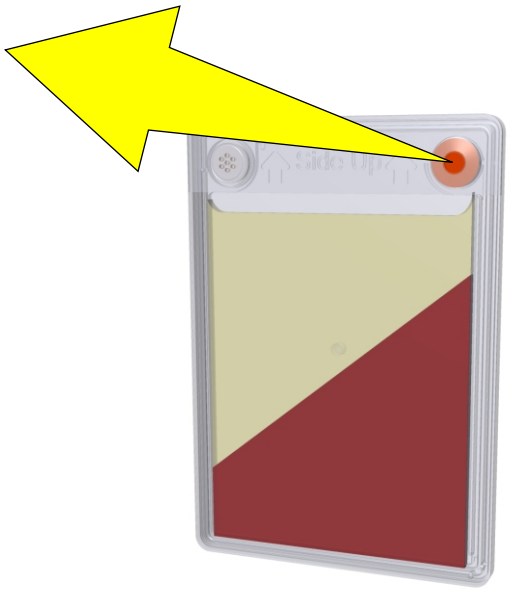
Directly inject into 2-3 Petakas
(24 mL of blood in each)

2

Place the Petakas
in the centrifuge buckets
with the port in the
uppermost position

**Centrifuge at 1500 rpm
for 5 min.**

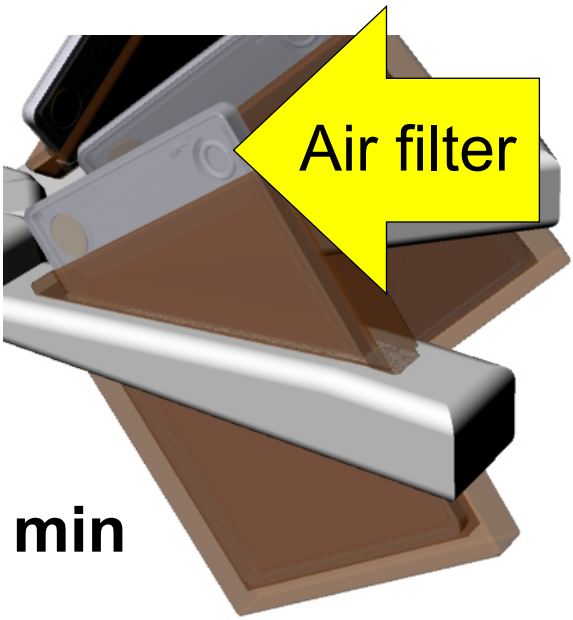




3

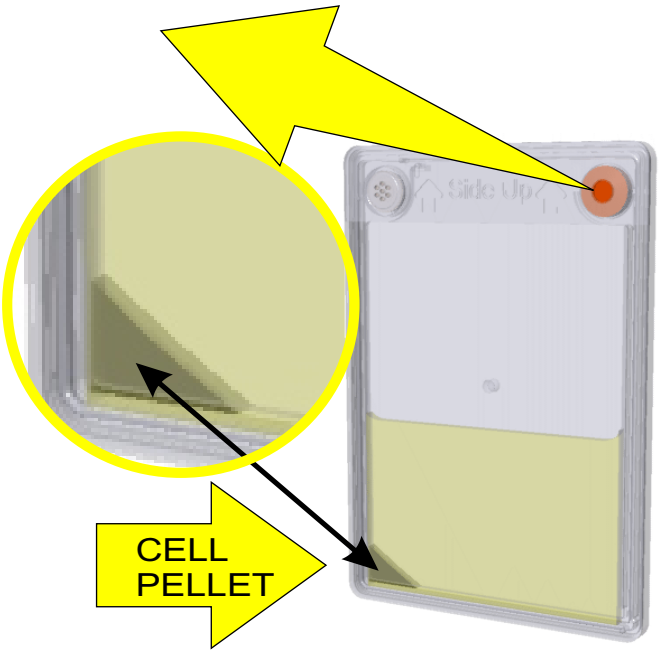
Withdraw the red
blood cells with a
30 mL syringe

4



Turn around the Petakas andplace them in the buckets with the filter in the uppermost position

Centrifuge at 1500 rpm for 15 min



5

Withdraw the serum avoiding the pellet disruption

6

Resuspend the pellet in 5 mL of the selected media

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