# PARIHERA

Prevention of cancer invasion by blood filtration

# Problem

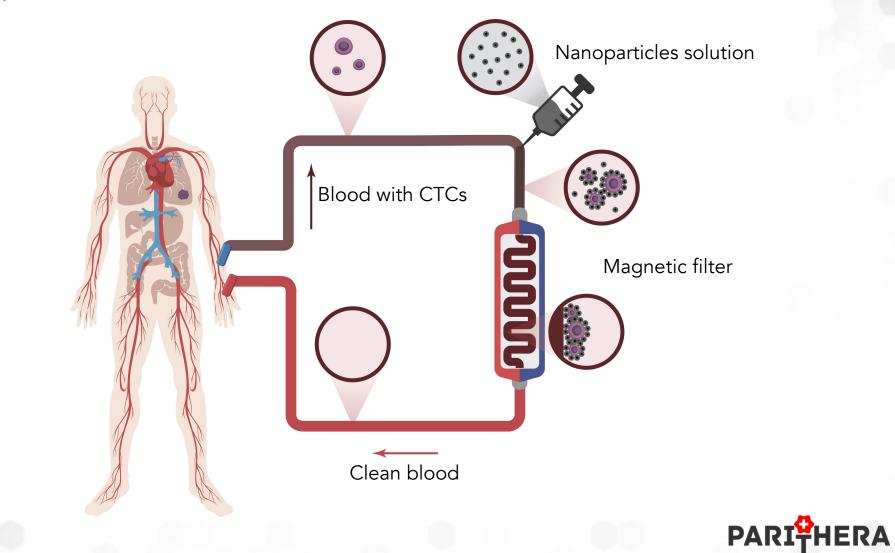
Over 90% of cancer patients die from metastases and none of the marketed therapies target **circulating tumor cells (CTCs)** the origin of metastases.





# Solution

The procedure is comparable to dialysis but focuses on removing CTCs from the blood with magnetic nanoparticles.

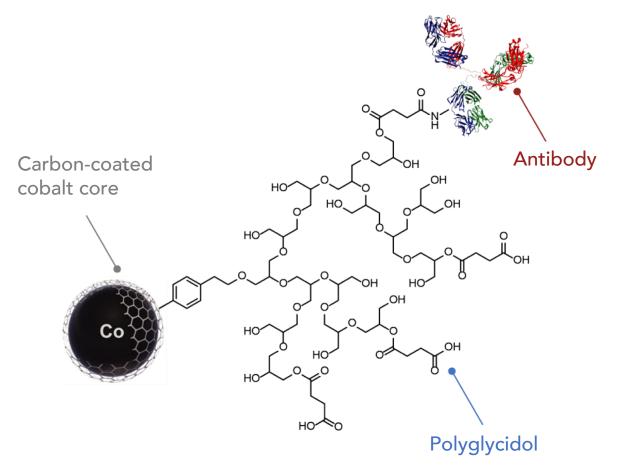


# Our invention: A new generation of magnetic nanoparticles

Metallic core (Co or Fe) provides magnetic properties

Polymer layer (polyglycidol) provides antifouling properties

Antibody (application specific) provides specific binding to target cells





## Results





The work was done as a collaboration between ETHZ and USZ.

### **ETH** zürich

Developed magnetic nanoparticles



Tested procedure in blood samples





## Time for questions





#### Dr. Antoine Herzog

antoine.herzog@parithera.com

#### Dr. Weida Chen

weida.chen@parithera.com