enits technologies

Acoustic Sorting & Manipulation of Suspensions

Experience with the SME instrument



Nov. 2019

Who We Are

Aenitis develop innovative multipatented Medical Devices for continuous, contactless and pressureless handling, sorting and washing of cells in suspensions, using Acoustic Radiation Forces dedicated for cell therapy manufacturing issues.

Targeted Markets: ✓ cell therapy processing ✓ labile blood products

Blood Banks & Cell Therapy Units issues

"Cell therapy can be defined as an approach that uses a biological product with therapeutic effect, derived from living cells. "

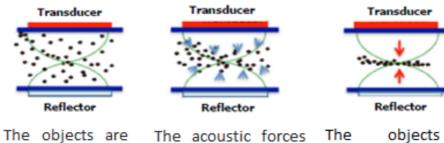
Stem Cells, 2018



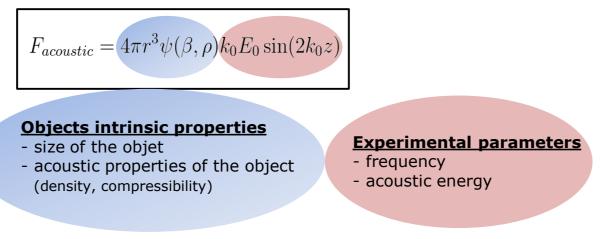
\$7.6 Billion Total 2018 investment in cell therapy companies 64% Increase of 2017 (Alliance for Regenerative Medicine)

Aenitis' Technological Answer

AENITIS TECHNOLOGIES' ACOUSTIC DOWNSTREAM CELL PROCESSING

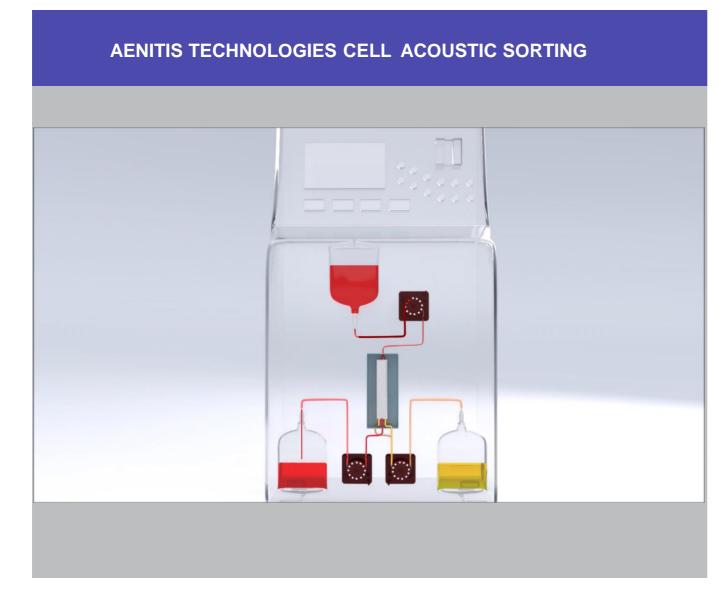


suspended in the lead the objects to channel. the pressure node. The objects are concentrated on a nodal plan. The concentration time is < 1 second.



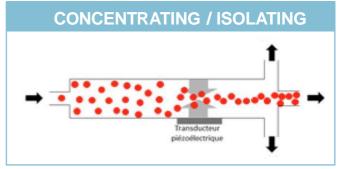
For example: $F_{red cells} > 4.F_{platelets}$: Possibility of cell blood fractionation

Aenitis' Technological Answer



DIFFERENT CHANNEL DESIGNS AND USES SORTING

WASHING / SORTING



The contents of this document remain confidential

SMEs Needs

✓ Non dilutive funding to reduce financial risks

✓ Networking for:

- R&D opportunities
- Market / Business understanding
- HR
- Funding opportunities

✓ Advisors / Mentors

European Commission support to these needs

→SME Instrument phase I – Tech and Business Feasibility →SME Instrument phase II - Development

SME Instrument key points ...on the Acoustic Blood Cell Sorter experience

SME Inst Phase I

- €50k grant on Tech and Economical feasibilities studies
- Good 1st practice on filing and European Commission Extranet
- Link interaction with EASME
- 3 days coaching / Mentoring (Strategy on Networking)

SME Inst Phase II

- More challenging application... (tried 3 times)
- €3,95M grant
 - ✓ Real huge support were private investors are not easy to convince
 - ✓ From lab to Industrialized product
 - ✓ Regulatory issues covered
 - ✓ IP issues covered
 - ✓ Monitoring and Communication support
- Networking events
- 12 days Coaching / Monitoring (Strategy Networking Market understanding HR)
- Openness to other EU SME Supports programs : Fortissimo, EIT Health, Access to Europe

Advises

✓ Try as it is always a good practice and reusable application file

- Revers psychology: be a EU Leader
- Business Plan based
- Pugnacity
- Call your network

✓ **Opportunities openness!** To get opportunities you must get out your routine zone

...luck is a critical part of your success...

... and luck or opportunities, it takes planning!

✓ Europe is a great opportunities for innovative SMEs due to richness of its network

- KOL
- Large corporate
- Key academia
- Funding opportunities
- Market

✓ Working with consultants but do your own application with them and not the opposite!

- Check resume and conditions!
- Following rules for application and for periodic reports... it's not so complex. Local H2020 supports such as EEN offices



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