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Precision medicine: Right drug for the right patient at the right time

Cancer Research UK: "One in two people born after 1960 in the UK will be diagnosed with some form of cancer during their lifetime."

- Each patient's cancer is different
- Patient's cancer changes over time
- Effective treatment requires personalised care
- Reducing healthcare costs

- Market for liquid biopsy US\$14bn in the US alone by 2025 (Goldman Sachs)
- Four key market segments
 - Diagnostic screening
 - —Therapeutic decision-making
 - —Minimal residual disease
 - —Post treatment monitoring





Parsortix[™] and the advantages of CTCs for liquid biopsy

		Solid Biopsy		Liquid Biopsy	
		Primary Tumor	Metastatic	cfDNA ¹	CTCs ²
Sample Type		Intact cells	Intact cells	Fragmented DNA	Intact cells
Accessibility		Invasive Not always accessible	Invasive Not always accessible	Non-invasive ³ Accessible	Non-invasive ³ Accessible using Parsortix ⁴
Repeatability		Difficult	Difficult	Easy	Easy
Molecular analysis	DNA RNA Protein	Yes Yes Yes	Yes Yes Yes	Yes Difficult No	Yes Yes Yes
Live cells	Cell culture Xenograft	Yes Yes	Yes Yes	No No	Yes Yes

Liquid biopsy comprises ctDNA and CTCs

- CTCs are whole cells, which provide cellular morphology, full genetic information including DNA, RNA and protein expression and the ability to grow cells outside patient. CTCs are highly clinically relevant as they cause the secondary cancer metastases
- ctDNA are DNA fragments of dead cells and can only be analysed for DNA. ctDNA may provide less clinically relevant information as it originates from dead cells
- ◆ ANGLE's Parsortix[™] system provides a unique product based solution where others are offering only a laboratory-service based approach

ANGLE is offering customers a Parsortix system for purchase comprising a desktop instrument and a one-time use consumable. Many competitor systems are so complicated that they have to offer a CLIA (certified laboratory) solution where the customer sends them the sample and they operate the system and provide a result. This approach is commercially less attractive as it requires large in-house investment, is less scaleable and deprives the clinical customer of much needed revenue in processing the samples.



ANGLE's patented Parsortix system



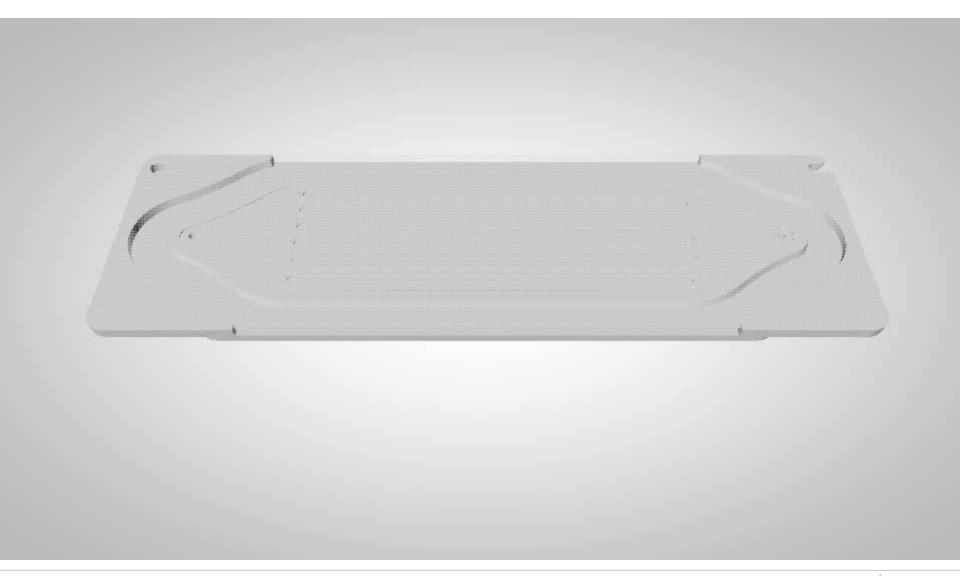




- Stepped, microscale cell separators for fluid flow and cell separation
- Granted patents to 2034:
 US, Europe, China, Canada and Australia
- Manufactured ISO13485 quality control system
- European CE mark

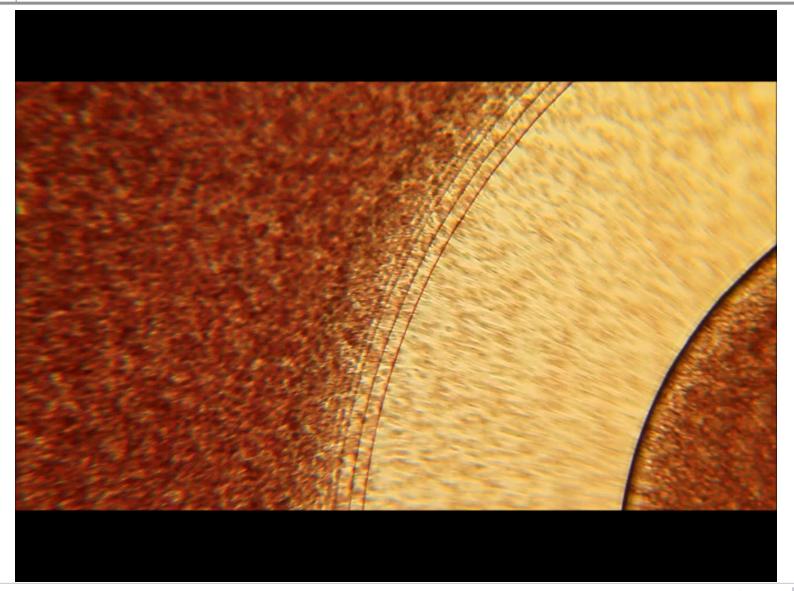


Animation showing Parsortix patented steps





Video showing blood flowing in Parsortix cassette





Research use sales

- Research use sales growing
 - —sales to multiple customers of both Parsortix instruments and cassettes
 - customers include both new research users and existing KOLs
 - -growing sales pipeline
- * Research use sales market £250m p.a.
 - -750 addressable Phase II cancer drug trials p.a. revenue potential £100k / trial
 - -120 addressable Phase III cancer drug trials p.a. revenue potential £750k / trial
- Targeting sales to leading cancer centres
 - -revenues
 - broaden range of users of the system additional posters, publications and clinical evidence
 - new clinical applications and companion diagnostics

	Machine	Cassette
Price 1	£40,000	£150
Cost	£12,000 ²	£17
Margin	70%	89%

- High margins allow flexibility in pricing for competitive advantage
- Includes maintenance, technical support, sales and distribution

Major pharma developing more selective drugs

- Colorectal cancer KRAS- Erbitux (Merck Serono)
- Lung cancer EGFR+ Iressa (AstraZeneca)
- Breast cancer HER2+ Herceptin (Genentech)



FDA authorisation progress

- Seeking to be first FDA authorised system for harvesting cancer cells from blood
 - —full-time FDA experienced clinical studies director
 - detailed study plans have been developed and reviewed with the FDA
- FDA authorisation of the system first for metastatic breast cancer with ovarian cancer and other cancer types to follow
 - breadth of authorisation to provide flexibility in clinical deployment, allowing a range of downstream analytical procedures
 - -base authorisation to which (i) additional cancer types and (ii) specific clinical uses can be added facilitating roll out across a wide range of applications
- Three world-leading US cancer centres selected
 - —patient accrual and clinical evidence to secure the FDA authorisation
 - -major customers in the future
 - Key Opinion Leaders in securing uptake of the Parsortix system once FDA secured
- Approach adopted provides a strong competitive advantage



Clinical application

Ovarian cancer detection: triaging for pelvic mass surgery

Medical University of Vienna

- Highly successful patient study
 - 100% specificity in primary epithelial ovarian cancer (no false positives)
 - 78/80% sensitivity with 7 RNA markers
 - 100% sensitivity with 30 RNA markers
- Parsortix results "sensational"
 - best CTC alternative only 24.5% sensitivity

- Clinical application in triaging patients with abnormal pelvic mass
 - —to identify those at high risk of ovarian cancer
 - —in US, 200,000 women p.a. have surgery on abnormal pelvic masses c. 10% have cancer
 - Medicare reimbursement of \$516/test
- Ovarian sales potential >£300m p.a.

Parsortix effectiveness compared to other tests

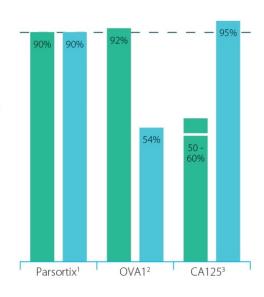
Sensitivity

The test correctly identifies those with the disease (true positive). A low sensitivity means the test may miss many people who have cancer (false negative).

Specificity

The test correctly identifies those without the disease (true negative). A low specificity means patients are told they may have the disease when they do not (false positive).

- I Target for clinical studies
- 2 Vermillion Inc.
- 3 Patient.co.uk / Fritsche HA, et al. (1998). CA-125 in ovarian cancer: advances and controversy. Clinical Chemistry. 44(7):1379-1380





	Cancer	No cancer	
Test Result	Sensitivity	Specificity	
Positive	True Positive	False Positive	
Negative	False Negative	True Negative	





Non-invasive prostate biopsy

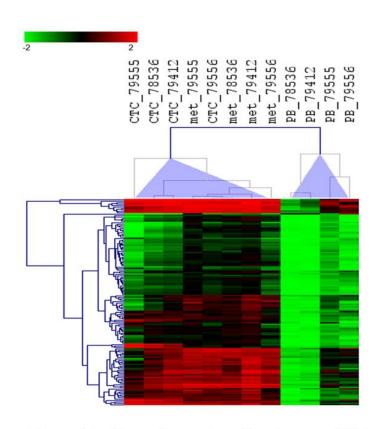
- Barts Cancer Institute new results
 - —detected 100% of the metastatic prostate cancer patients
 - Detected 75% early stage including "active surveillance"
 - -number of mesenchymal CTCs harvested good correlation to Gleason score
 - -metastatic or localised: higher level of accuracy than Gleason score
- Simple blood test before solid biopsy test
 - -detect prostate cancer
 - assess the aggressiveness of the disease
 - patient risk stratification differentiate between active surveillance (indolent) or intervention (aggressive)
- Avoid unnecessary and potentially harmful solid biopsy and surgical intervention
 - Over 1 million solid prostate biopsies per annum in US alone
 - -75-80% no cancer and over 50% with cancer "watchful waiting" / "active surveillance"
 - only 10% with cancer that needs treatment
 - painful, may miss the cancer and can cause infection



Metastatic breast cancer liquid biopsy

University of Southern California Norris Comprehensive Cancer Center

- CTCs harvested for RNA Seq analysis in 100% of patients
- * CTCs from Parsortix liquid biopsy had statistical significant correlation of gene expression to the traditional biopsy of cancer cells from metastatic sites in all cases (n=8)
- Parsortix liquid biopsy also provides additional clinical information beyond the biopsy of a single metastatic site
- Simple blood test: better for patient, repeatable, more effective and cheaper



Hierarchical two dimensional heat map of 214 genes differentially expressed in CTC and met vs peripheral blood.

Summary

Liquid biopsy

Parsortix[™] patented system provides cells for precision medicine changing the paradigm in a \$ billion emerging market

- High performance in ovarian, prostate, breast and lung cancers
- Growing research use sales with a clear competitive advantage
- CE Mark authorised. FDA authorisation in process
- Ovarian cancer first clinical application in development



















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