













	S	inale na	ss sorti	na on u	FACS	
Table 1. Results and of sorting G	of sorting FP-expres	red from blue ssing HB101 <i>E</i>	fluorescent be <i>coli</i> from wild	ads (forward r -type HB101	mode and reve E. coli (forward	erse mode) d mode)ª
	Input	well	Collecti	Collection well		e well
Bead color	Blue	Red	Blue	Red	Blue	Red
Forward-mode bead sorting	0.925	0.074	0.160	0.840	0.998	0.002
Reverse-mode bead sorting	0.988	0.012	0.043	0.957	0.999	0.001
Does not lo first devic	ook as g ce cons ng can	good as th tructed ba be repeat	ne big bro ack in 199 ed many ng materi	ther perh 19 times ove al	aps, but i er by using	t was the g the
The sorting recovered	d cells a		5			
 The sortin recovered In princip with very 	d cells a ole, µFA clittle e	CS sorter	s can do i	massively	parallel a	nalysis















	Detection of cancer													
ď	lsolat patier ार	ion of rar Its by mic	e circulation crochip teo CTCs were ide samples; the s	ng tu hnol entified single n	mou ogy in 115 iegativ	of 1 of 1	ells i 16 (99 s a sp	n ca 9%) p ecime	ancer Datient en with					
D 5 e		i	Cohort	e (0.9 r Total no. of samples	Range of CTCs per mL 5-20 20-50 50-100 >100 Np. of samples (%)			Samples with >5 CTC per ml (%)						
c	Cytokeratin	Cvtokeratin	Healthy subjects Lung cancer Prostate cancer	20 55 19	0 11 (20) 3 (16)	0 (0) 11 (20) 8 (42)	0 (0) 11 (20) 1 (5)	0 (0) 22 (40) 7 (37)	0 100 100					
f		j 🍪	Localized prostate cancer	7	0 (0)	3 (43)	0 (0)	4 (57)	100					
			Pancreatic cancer	15	1 (7)	3 (20)	2 (13)	9 (60)	100					
			Breast cancer	10	2 (20)	0 (0)	4 (40)	4 (40)	100					
g	CD45 CD45 Colon cancer 10 0 (0) 2 (20) 4 (40) g k O Note the range of cancers detected													
	Aerge 1 <u>0 µm</u>	Merge 🍓 10 µm	Anti-cytokeratin Abs for epithelial cells and CD45 Abs for blood cells are used for staining Nagrath et al Nature, December 2007											







































