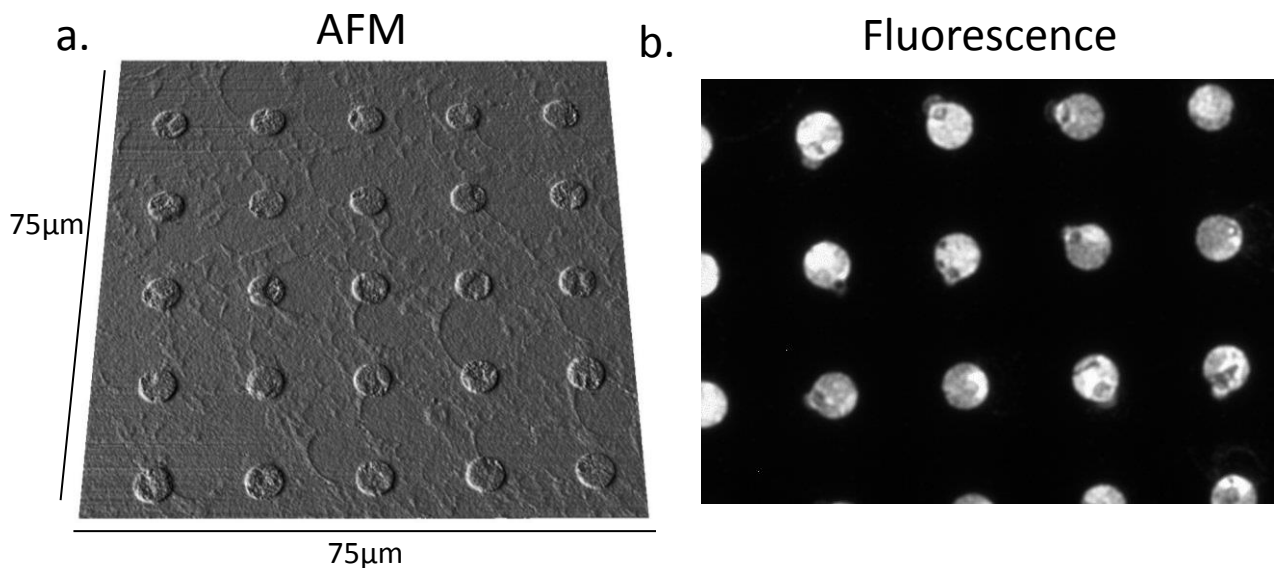


A rapid, label free platelet activation assay

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Supplementary information



Supplementary figure 1.

Platelet capture surfaces containing a mixture of fibrinogen (200 µg/ml) and BSA (2 mg/ml) in 6 µm circular stamps visualised under both AFM (a) and fluorescence microscopy (b)

Note: All p values stated below represent two-tailed student-t statistical testing

Supplementary Table 1:

Condition		Mean	SD	SEM	p
Mean	Surface	91.22	23.88	7.18	0.66
	Stamp	95.55	9.54	5.29	
Surface area	Surface	21.22	5.33	1.60	0.97
	Stamp	21.14	6.90	3.83	
Area above half-height	Surface	2.91	0.63	0.19	0.67
	Stamp	2.75	0.99	0.55	
Volume	Surface	1.61	0.39	0.11	0.28
	Stamp	1.85	0.76	0.42	

Supplementary Table 2a:

Surface area	Mean	SD	SEM	p (vs. control)	p (vs. previous conc.)
Control	31.92	7.41	2.18		
1µM	31.18	8.34	3.93	0.86	0.86
3µM	43.35	9.80	4.75	0.08	0.16
10µM	46.19	16.95	5.99	0.01	0.49
100µM	53.30	16.60	7.42	<0.01	0.46

Supplementary Table 2b:

Volume	Mean	SD	SEM	p (vs. control)	p (vs. previous conc.)
Control	4.69	1.14	0.33		
1µM	6.95	2.75	1.23	0.02	0.02
3µM	12.86	4.41	2.14	<0.01	0.02
10µM	18.19	8.13	2.92	<0.01	0.21
100µM	25.64	9.14	4.19	<0.01	0.14

Supplementary table 3a:

Condition		Mean	SD	SEM	p (vs. control)	p (vs. previous conc.)	p (WGA vs P-Selectin)
Control	WGA	840.40	496.13	59.58			0.59
	P-Selectin	886.11	494.06	59.33			
1µM	WGA	1940.80	1098.55	132.46	<0.01	<0.01	0.25
	P-Selectin	1724.25	1112.48	134.14	<0.01	<0.01	
3µM	WGA	5886.55	3330.64	760.39	<0.01	<0.01	<0.01
	P-Selectin	3165.64	1837.52	309.13	<0.01	<0.01	
10µM	WGA	5824.72	4519.92	578.82	<0.01	0.95	0.20
	P-Selectin	7301.25	4667.58	811.16	<0.01	<0.01	
100µM	WGA	7201.19	2672.56	1749.60	<0.01	0.66	0.44
	P-Selectin	10137.72	5219.71	3131.83	<0.01	0.34	

Supplementary table 3b:

Condition		Mean	SD	SEM
Control	WGA	845.15	496.13	59.58
	P-Selectin	886.11	494.06	59.33
1µM	WGA	1519.12	1098.55	132.46
	P-Selectin	1724.25	1112.48	134.14
3µM	WGA	4098.05	3330.64	578.82
	P-Selectin	3165.64	1837.52	309.13
10µM	WGA	3531.46	4519.92	760.39
	P-Selectin	7301.25	4667.58	811.16
100µM	WGA	3863.55	2672.56	1749.60
	P-Selectin	10137.72	5219.71	3131.83

Supplementary Table 4

Condition		Mean	SD	SEM	p (vs. control)	p (F vs. AFM)
Control	Fluorescence	15.00	2.71	0.73	n/a	<0.01
	AFM	9.19	2.36	0.63	n/a	
Par1-AP	Fluorescence	21.20	6.85	1.59	<0.01	0.01
	AFM	30.75	12.92	3.00	<0.01	
Par1-AP+BMS	Fluorescence	13.69	4.20	1.88	0.43	0.01
	AFM	7.26	3.05	1.36	0.15	

Supplementary table 5:

	Mean	SD	SEM	P (vs. control)
Control	3.08	1.93	0.45	n/a
Cancular	1.85	2.64	0.78	0.14
ADP	7.49	2.89	0.99	<0.01
ADP+Cancular	1.04	2.33	0.49	<0.01