

Supplementary Information

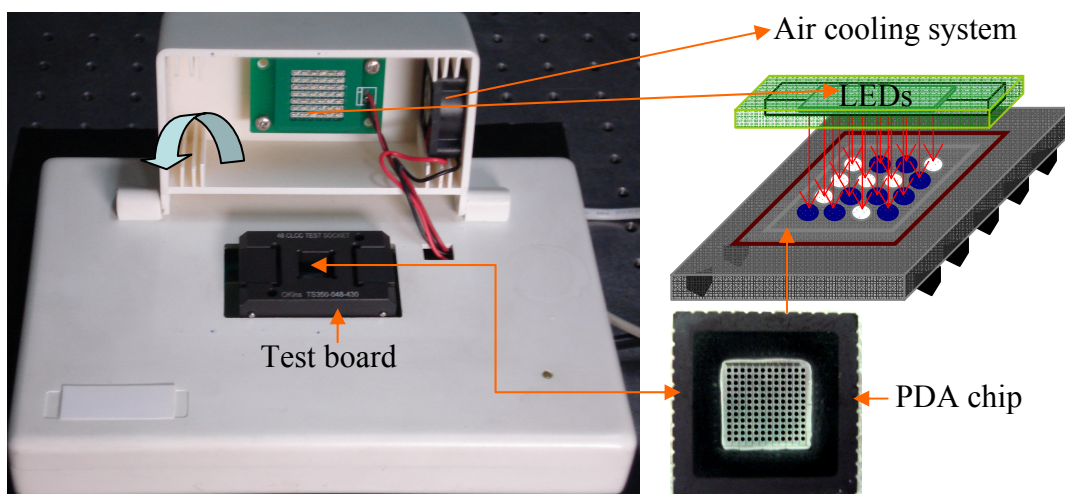


Figure S1. Photo images and schematic illustration of (PDA) microchip system. The photodiode sensors are coupled with an electrical signal amplification and detection unit. A 12×12 array of light emitting diodes (LEDs), installed right above the Trypan blue-stained dead cells (blue circles) screen the photodiode elements from the red light, while live cells (white circles) allow the irradiated red light to reach the photodiodes freely.

Table S1. Cell viability measurements based on relative reduction in PDA signal

Drug	Exposure Time (h)	Drug Concentration (mM)	Cell viability (%)	
			HL60	HEK- 293
Naringenin	12	0	95	95
		0.10	79	90
		0.25	74	88
		0.50	54	89
		1.00	4	68
Sodium Salicylate	12	0	95	95
		1.00	94	93
		2.50	84	92
		5.00	66	90
		10.00	39	86
Camptothecin	6	0	95	91
		150 nM	62	90
		287 nM	52	84