Zr-NMOF Tagged with Heterobifunctionalized Aptamers for Sensitive and High-Dimensional Imaging Mass Cytometry

Supplementary Material includes:



Supplementary Figures

Figure S1 Hydrodynamic size analysis of Zr-NMOF synthesized with different concentrations of H_2O in DMF as modulators at a 6-h reaction time was measured by dynamic light scattering. (A) 0M 6h (B) 0.07M 6h (C) 0.14M 6h (D) 0.21M 6h (E) 0.28M 6h







Figure S3 Histograms of Zr-NMOF_A10-3.2 stained (A) LNCAP and (B)PC-3 with four Zr channels

Supplementary Tables

Table S1 Atomic ratio of Zr-NMOF measured by XPS

	Zr 3d(%)	C 1s(%)	O 1s(%)
Zr-NMOF	5.2	59.65	35.15

Reagent	Name-metal	Clone	Marker	Vendor
Maxpar	α -SMA- ¹⁵⁸ Gd	1A4	Stromal	Abcam
antibodies				
	E-CAD- ¹⁶⁸ Er	4A2	Epithelial	Abcam
	CK19- ¹⁶⁹ Tm		Epithelial	Abcam
	CD68- ¹⁷⁴ Yb		Macrophage	Abcam
Zr-NMOF_APT.	PSMA-Zr-NMOF- ⁹⁰ Zr		Proliferating	Sangon Biotech
Cell identification	DNA intercalator-		Nuclei	Fluidigm
	¹⁹¹ lr/ ¹⁹³ lr			

Table S2 Hybrid panel of Maxpar X8 metal-tagged antibodies and Zr-NMOF_APT. labeled aptamers for multiplex PaC tissue section imaging