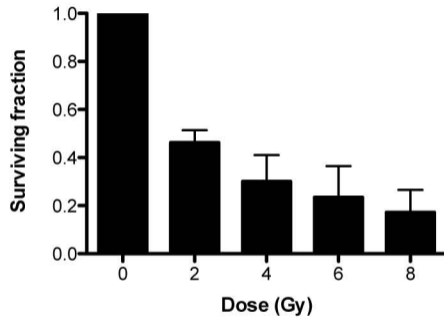
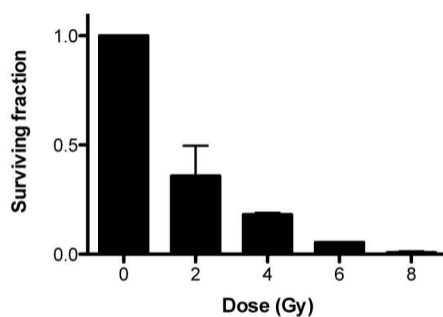
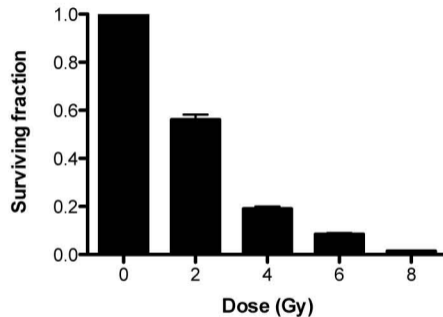
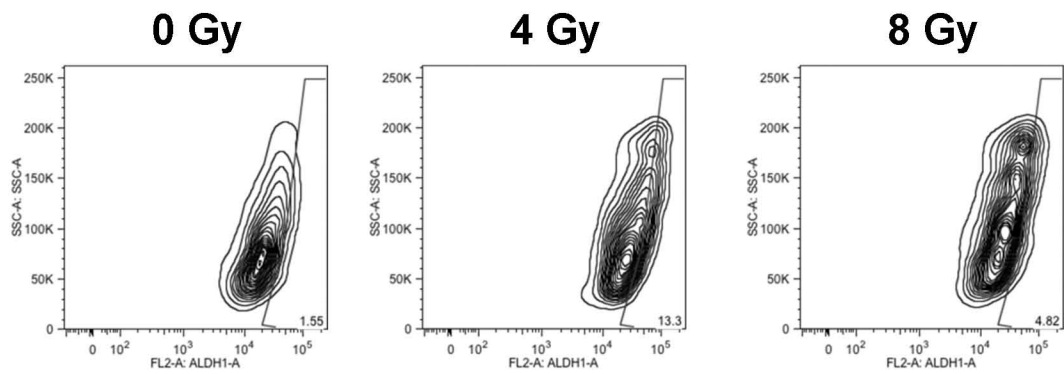
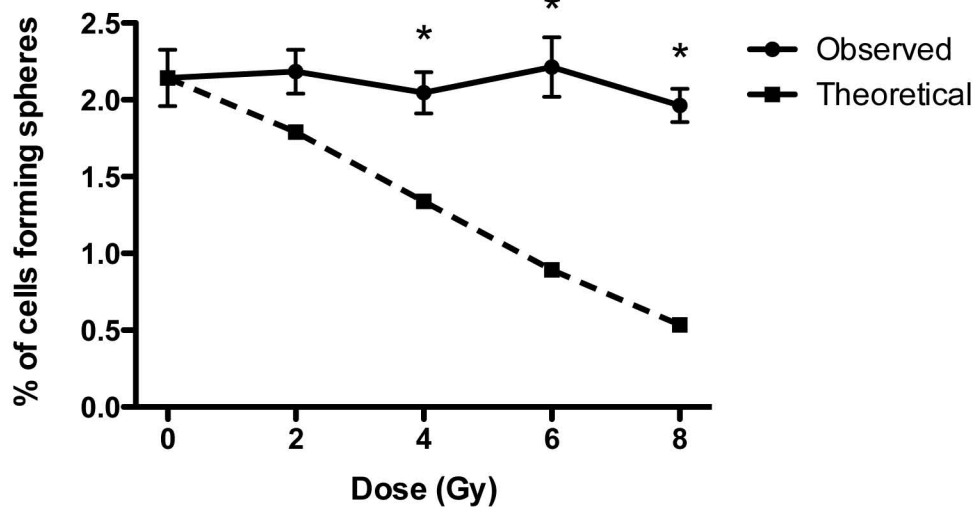
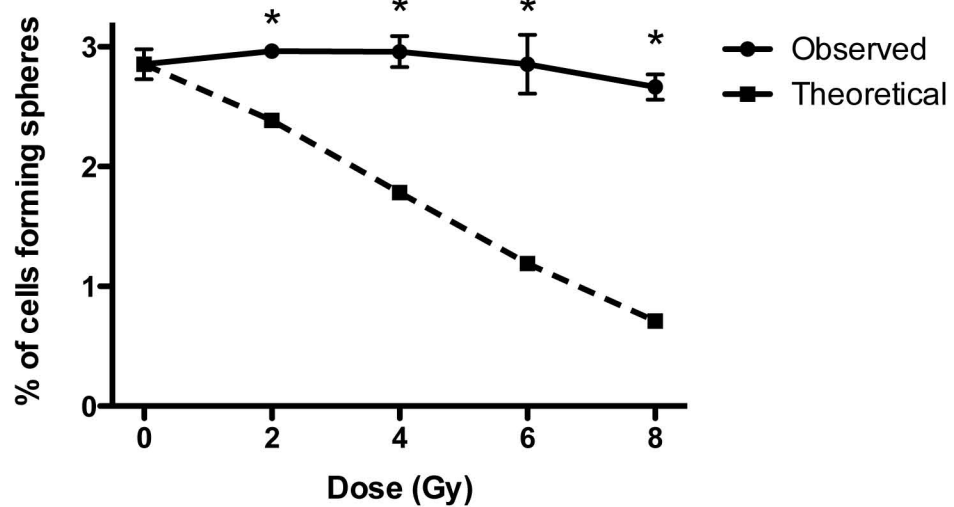
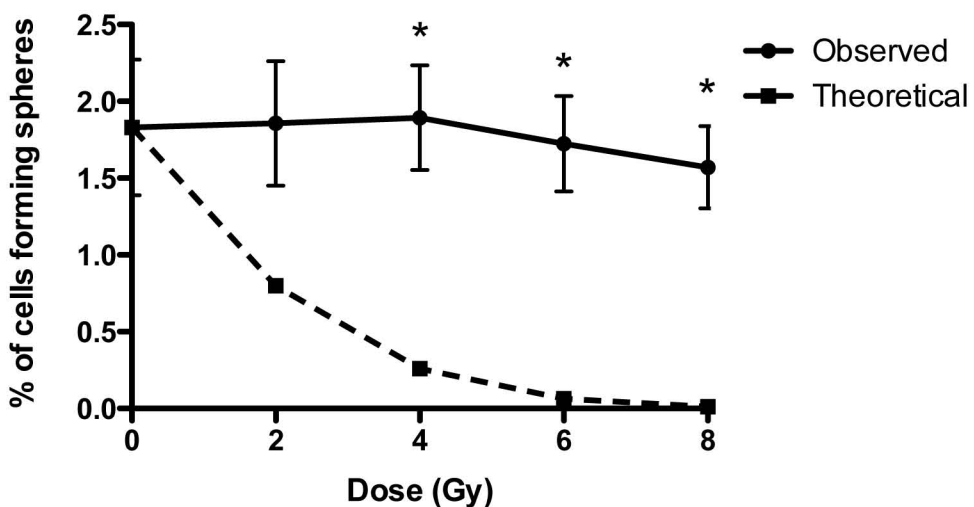
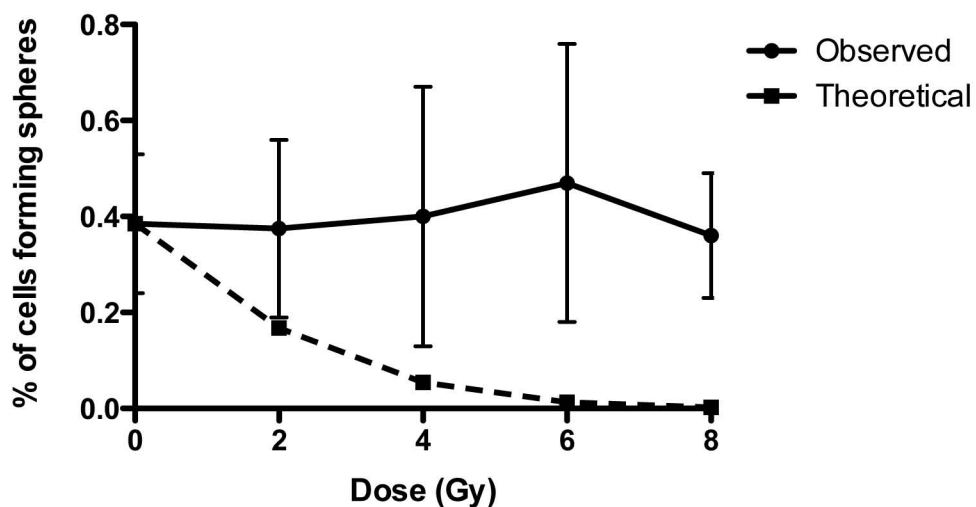
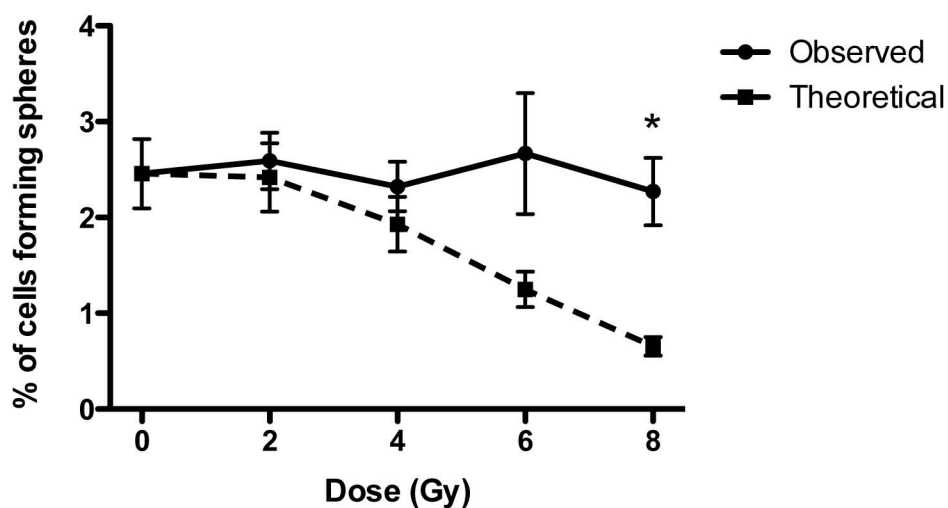
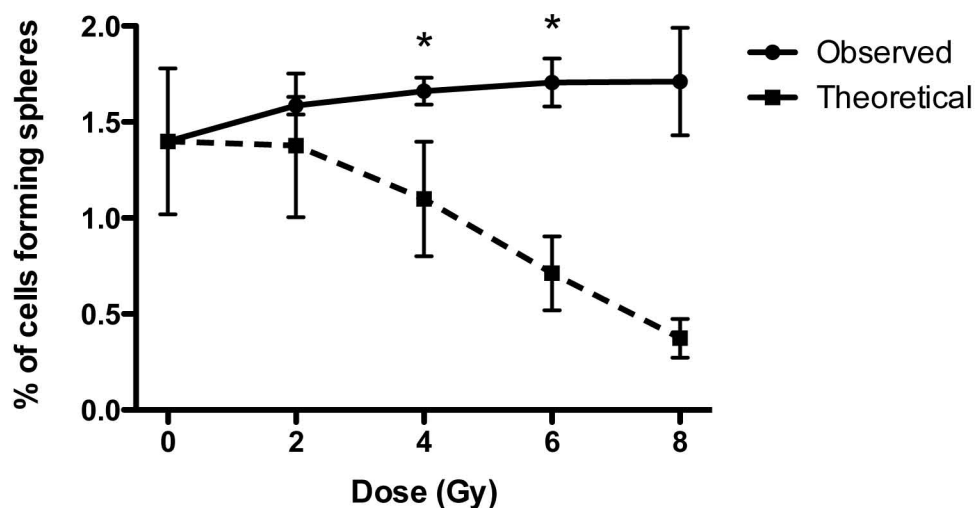


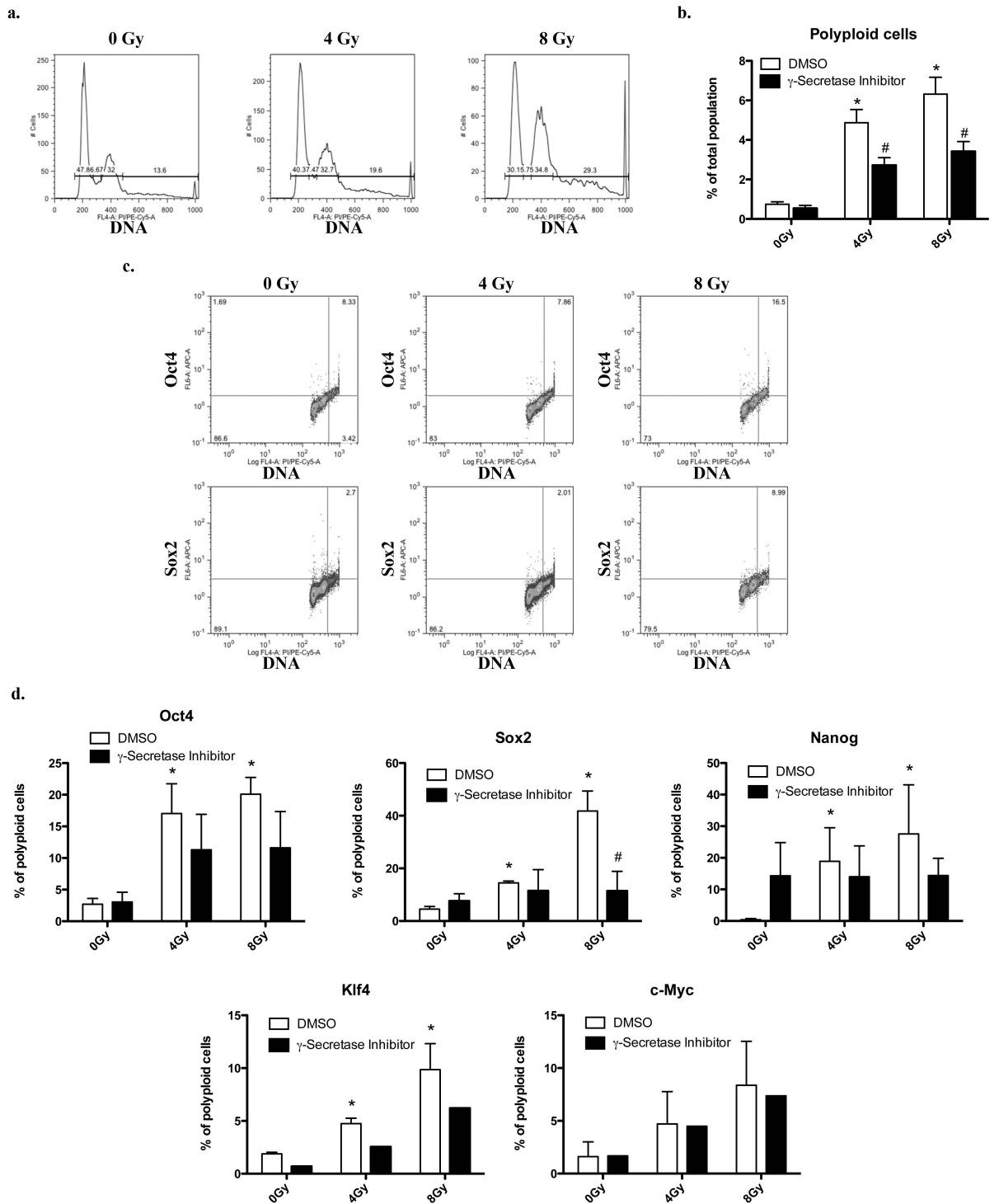
**SUM159PT****MCF-7****T47D****Supplementary Figure 1****Lagadec *et al.***



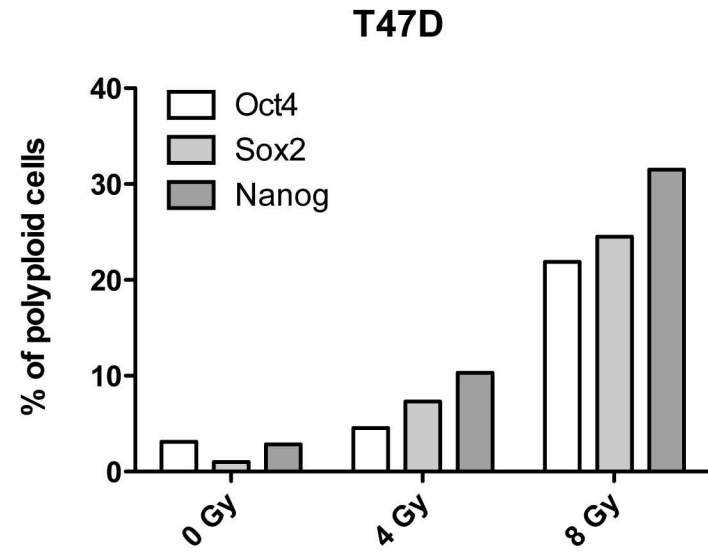
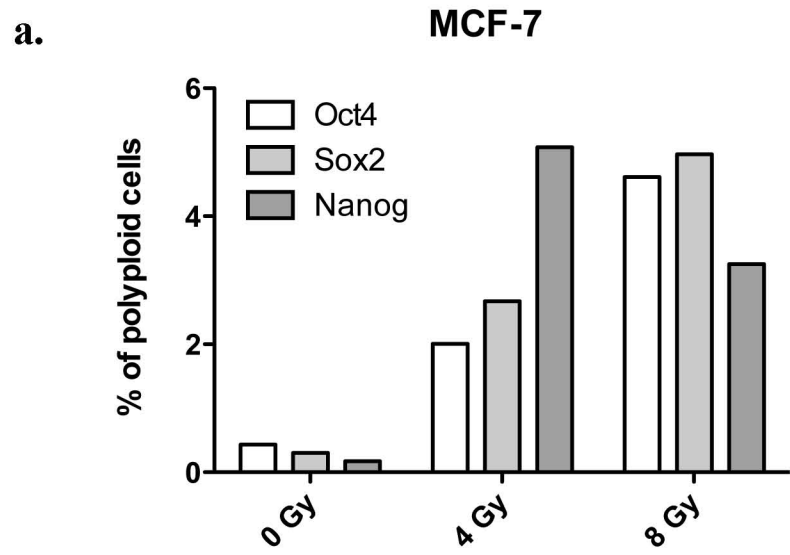
**a.****T47D****b.****SUM159 Sphere 1st G****SUM159 Sphere 2nd G****MCF-7 Sphere 1st G****MCF-7 Sphere 2nd G****T47D Sphere 1st G****T47D Sphere 2nd G**

Accession nb	Symbol	Description	Function	Relative expression to the mean						
				ZsG-	ZsG+	ZsG+ 8Gy	ZsG-	ZsG+	ZsG+ 8Gy	
1	P48431	SOX2	SRY (sex determining region Y)-box 2	Stemness				0.04	1.11	21.09
2	P04234	CD3D	CD3d molecule, delta (CD3-TCR complex)	Immunity				0.08	0.80	14.76
3	O00570	SOX1	SRY (sex determining region Y)-box 1	Stemness				0.13	1.02	7.85
4	P20849	COL9A1	collagen, type IX, alpha 1	ECM				0.14	1.60	4.59
5	P04628	WNT1	Wingless-type MMTV integration site family, member 1	Growth Factor / Wnt				0.15	1.64	4.17
6	P11487	FGF3	fibroblast growth factor 3	Growth Factor / FGF / Heparine				0.15	2.92	2.35
7	P16112	ACAN	aggrecan	ECM / hyaluronic acid				0.17	1.46	3.94
8	Q9NR23	GDF3	Growth differentiation factor 3	Stemness / BMP				0.34	0.49	5.97
9	P12645	BMP3	bone morphogenetic protein 3	Stemness / BMP				0.34	0.73	4.00
10	P15172	MYOD1	myogenic differentiation 1	Stemness				0.36	12.05	0.23
11	Q9NPB6	PARD6A	par-6 partitioning defective 6 homolog alpha (C. elegans)	Junction				0.39	0.45	5.75
12	P04271	S100B	S100 calcium binding protein B	Calcium metabolism				0.39	0.28	9.21
13	Q9Y297	BTRC	Beta-transducin repeat containing	Growth Factor / Wnt / Ub				0.44	2.51	0.90
14	P12643	BMP2	bone morphogenetic protein 2	Stemness / BMP				0.47	0.90	2.35
15	O00548	DLL1	delta-like 1 (Drosophila)	Growth Factor / Notch				0.49	0.84	2.41
16	P05091	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	Detox				0.51	0.73	2.72
17	P06493	CDC2	cell division cycle 2, G1 to S and G2 to M	cell Cycle				0.51	1.24	1.58
18	O43323	DHH	Desert hedgehog homolog (Drosophila)	Growth Factor / HHg				0.60	2.08	0.80
19	Q92837	FRAT1	frequently rearranged in advanced T-cell lymphomas	Growth Factor / Wnt				0.61	1.06	1.56
20	Q86UW9	DTX2	Deltex homolog 2 (Drosophila)	Growth Factor / Notch / Ub				0.61	0.89	1.86
21	P08473	MME	membrane metallo-endopeptidase	ECM				0.68	0.85	1.75
22	Q9Y261	FOXA2	forkhead box A2	Stemness				0.68	1.04	1.40
23	P05230	FGF1	Fibroblast growth factor 1	Growth Factor / FGF / Heparine				0.70	1.38	1.04
24	P29033	GJB2	gap junction protein, beta 2, 26kDa	Junction				0.74	1.13	1.20
25	P05019	IGF1	insulin-like growth factor 1 (somatomedin C)	Growth Factor / IGF				0.74	0.81	1.66
26	P28360	MSX1	msh homeobox 1	Stemness				0.75	0.98	1.36
27	P20248	CCNA2	cyclin A2	cell Cycle				0.75	1.55	0.86
28	Q13509	TUBB3	Tubulin, beta 3	Cytosq				0.76	1.39	0.95
29	P01106	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	Cell cycle / stemness				0.78	0.91	1.41
30	Q95251	MYST2	MYST histone acetyltransferase 2	HDAC				0.78	0.98	1.31
31	Q09472	EP300	E1A binding protein p300	Growth Factor / Notch				0.80	0.84	1.50
32	Q86Y01	DTX1	deltex homolog 1 (Drosophila)	Growth Factor / Notch / Ub				0.80	0.19	6.46
33	P46531	NOTCH1	Notch homolog 1, translocation-associated (Drosophila)	Growth Factor / Notch				0.82	1.01	1.20
34	P17302	GJA1	Gap junction protein, alpha 1, 43kDa	Junction				0.84	1.34	0.89
35	P11362	FGFR1	Fibroblast growth factor receptor 1	Growth Factor / FGF / Heparine				0.84	1.48	0.81
36	P24864	CCNE1	Cyclin E1	cell Cycle				0.84	1.19	1.00
37	P16070	CD44	CD44 molecule (Indian blood group)	Stemness / Hyaluronic acid				0.85	1.38	0.86
38	Q5VT25	CDC42BPA	CDC42 binding protein kinase alpha	Cytosq				0.86	1.32	0.87
39	Q92830	KAT2A	K(lysine) acetyltransferase 2A	HDAC				0.87	0.89	1.29
40	P19022	CDH2	Cadherin 2, type 1, N-cadherin (neuronal)	Adhesion				0.87	1.90	0.60
41	P09038	FGF2	Fibroblast growth factor 2 (basic)	Growth Factor / FGF / Heparine				0.87	1.73	0.66
42	O14746	TERT	Telomerase reverse transcriptase	Growth Factor / Wnt				0.89	1.02	1.10
43	O15169	AXIN1	axin 1	Growth Factor / Wnt / Ub				0.91	1.01	1.09
44	P78563	ADARB1	adenosine deaminase, RNA-specific, B1	RNA metabolism				0.91	1.08	1.03
45	P37231	PPARG	peroxisome proliferator-activated receptor gamma	Fatty acid				0.93	0.94	1.15
46	Q9UM13	ANAPC10	anaphase promoting complex subunit 10	Cell Cycle / Ub				0.93	0.73	1.48
47	Q92769	HDAC2	Histone deacetylase 2	HDAC				0.94	1.15	0.92
48	Q9NRR8	CDC42	Cell division cycle 42	Cell cycle				0.95	1.03	1.02
49	P24385	CCND1	Cyclin D1	cell Cycle				0.95	1.03	1.02
50	Q99720	OPRS1	opioid receptor, sigma 1	Growth Factor / EGF				0.97	1.05	0.98
51	Q9UNQ0	ABCG2	ATP-binding cassette, sub-family G (WHITE), member 2	Detox				0.97	1.41	0.73
52	P06400	RB1	retinoblastoma 1	Cell cycle				0.97	1.01	1.02
53	Q03181	PPARD	peroxisome proliferator-activated receptor delta	Fatty acid				0.99	0.90	1.12
54	Q9UP38	FZD1	frizzled homolog 1 (Drosophila)	Growth Factor / Wnt				0.99	1.29	0.78
55	P30279	CCND2	cyclin D2	Cell cycle				1.03	0.62	1.58
56	P38646	HSPA9	Heat shock 70kDa protein 9	Cell cycle / stemness				1.09	1.16	0.79
57	P02452	COL1A1	collagen, type I, alpha 1	ECM				1.10	3.54	0.26
58	P02458	COL2A1	Collagen, type II, alpha 1	ECM				1.23	2.87	0.28
59	P19012	KRT15	Keratin 15	Cytosq				1.28	1.80	0.44
60	P00352	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	Detox				2.22	4.14	0.11
61	P12830	CDH1	cadherin 1, type 1, E-cadherin (epithelial)	Adhesion				2.54	0.20	1.93
62	P08034	GJB1	gap junction protein, beta 1, 32kDa	Junction				8.27	0.08	1.46
63	Q8WWH4	ALPI	alkaline phosphatase, intestinal	RNA metabolism				2891.02	0.00	11.96

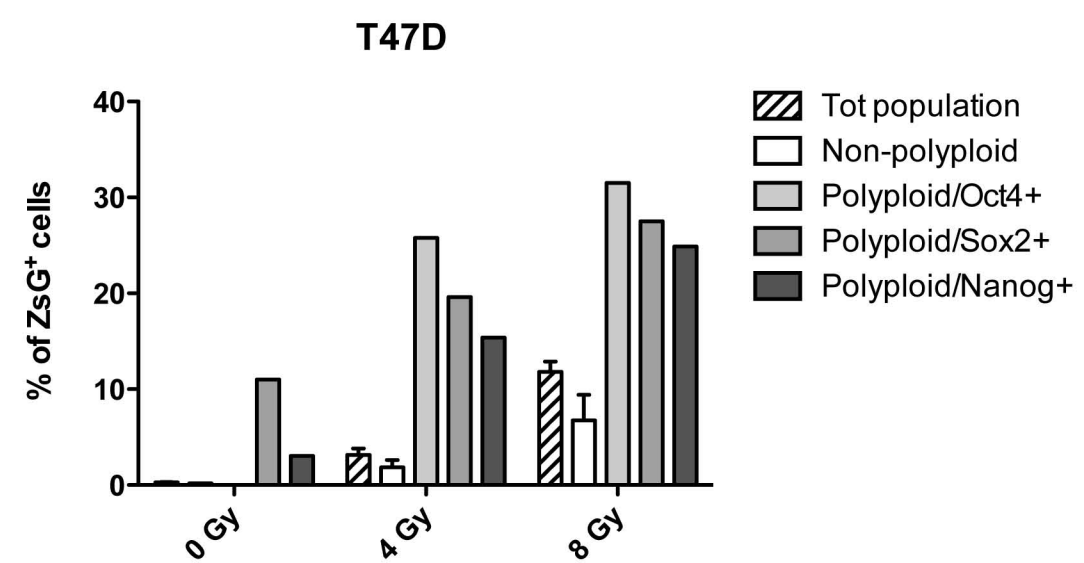
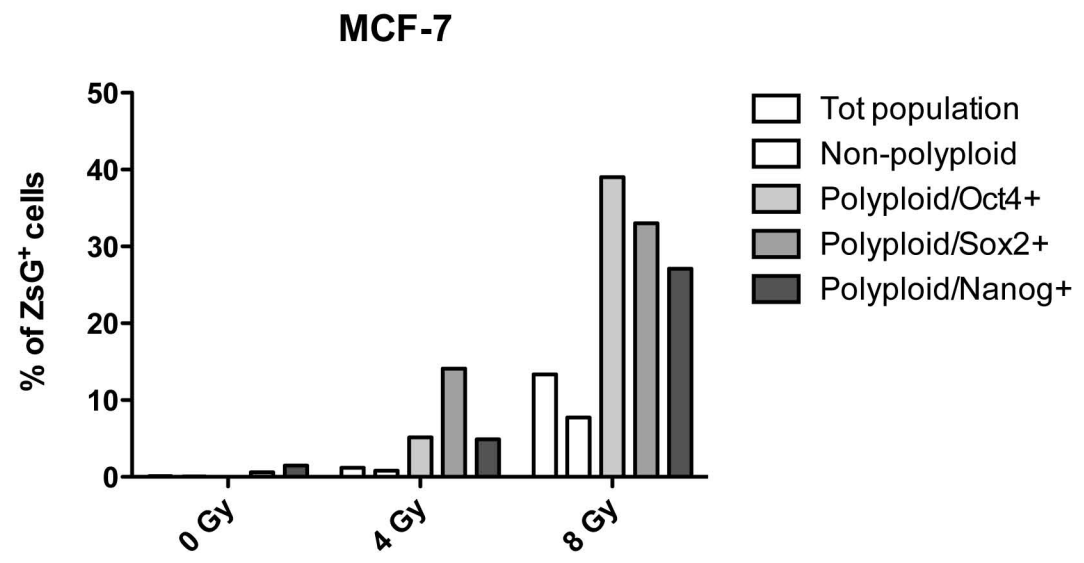




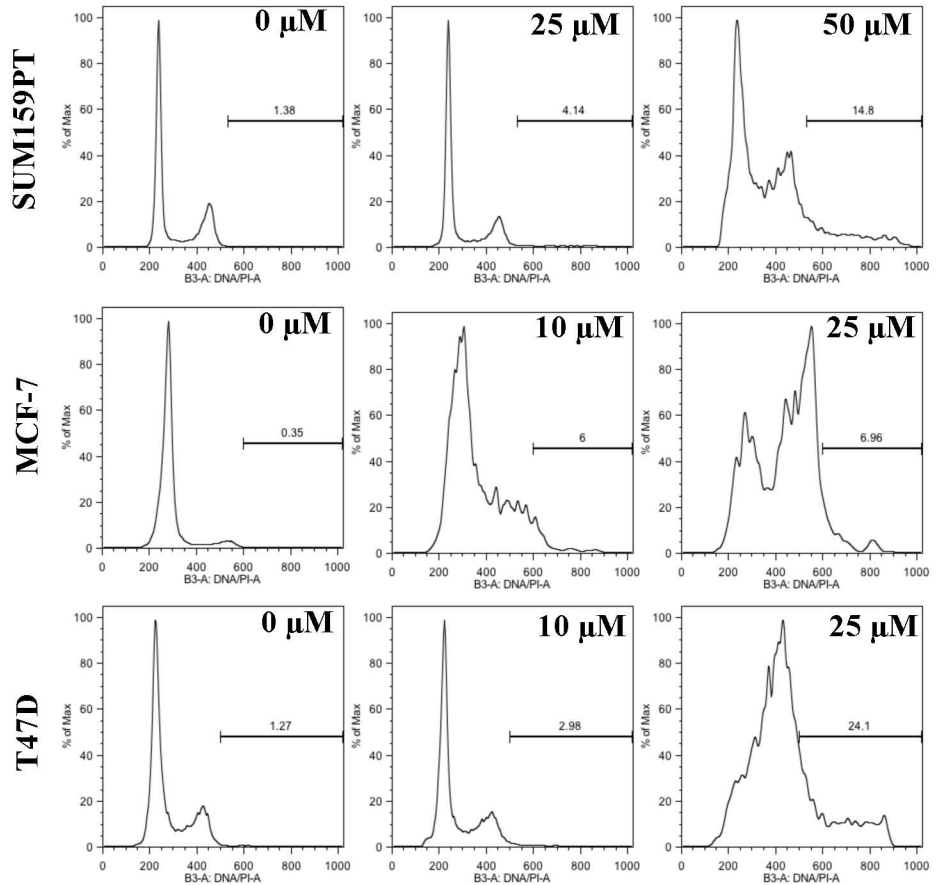
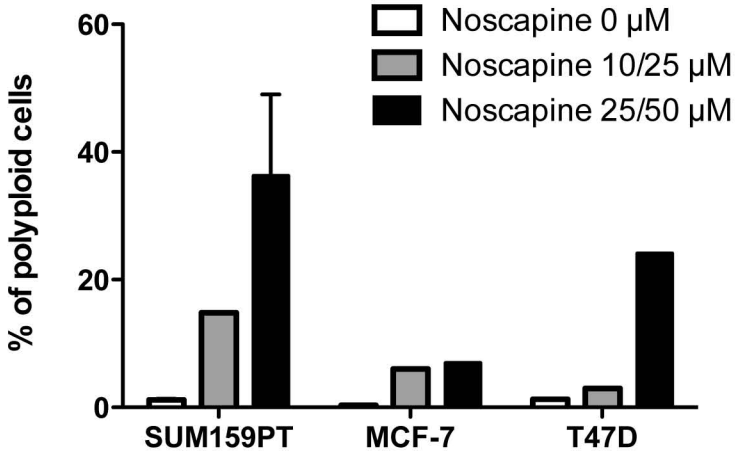
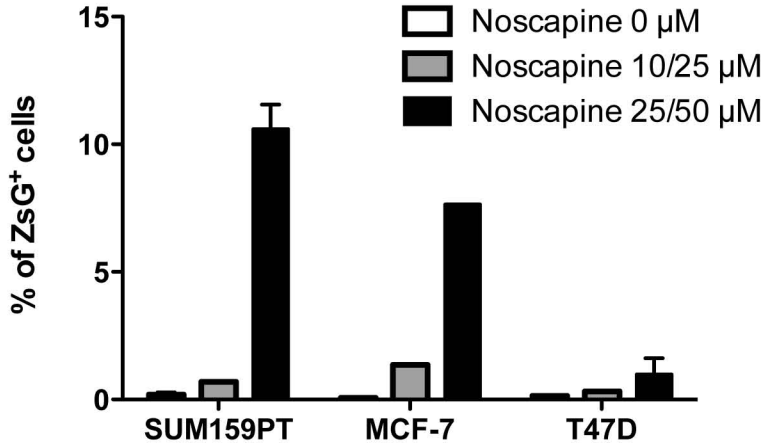
Supplementary Figure 5



**b.**



Supplementary Figure 6

**a.****b.****c.****Supplementary Figure 7**