

**Table S5: The *p*-value of Wilcoxon rank-sum test (one side) for each mark distributed across down-regulated genes between 0 Gy and 50 Gy**

FPKM	H3K4ac	H3K27ac	H4K12ac	H3K4me1	H3K4me3	H3K27me3	H3K36me3
>50	1.52E-07	2.44E-09	< 2.2e-16	8.10E-06	4.93E-09	< 2.2e-16	0.00046
10~50	3.51E-08	3.37E-09	< 2.2e-16	1.57E-12	0.06666	< 2.2e-16	0.14240
1~10	9.59E-05	2.08E-06	< 2.2e-16	1.52E-09	7.74E-08	7.67E-12	0.43400