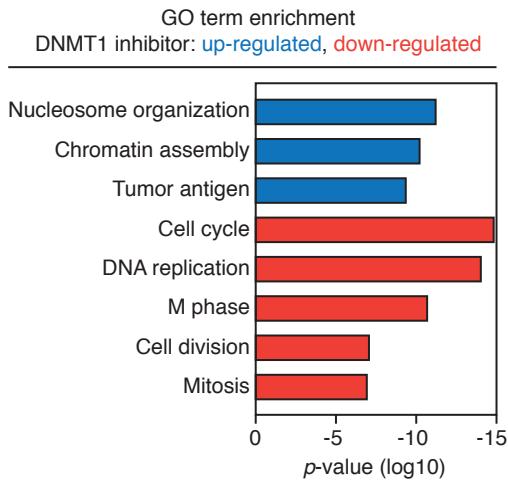
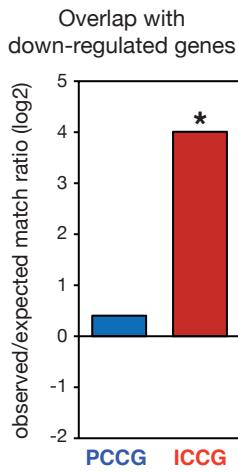


A**B****C**

Gene expression changes associated with exposure
to a DNMT1 inhibitor

CG genes	Fold change	p-value	ICCG genes	Fold change	p-value
<i>XAGE1B</i>	18,25	5,4E-12	<i>KIF15</i>	0,26	2,4E-08
<i>MAGEA1</i>	13,27	2,1E-10	<i>CDCA7</i>	0,33	5,5E-08
<i>MAGEA11</i>	8,11	1,9E-09	<i>KIF11</i>	0,38	2,8E-05
<i>CTAG2</i>	5,90	2,8E-10	<i>MKI67</i>	0,39	7,4E-07
<i>MAGEA5</i>	1,97	5,2E-03	<i>SMC4</i>	0,42	4,3E-07
<i>MAGEA3</i>	1,43	2,0E-04	<i>ASPM</i>	0,44	7,7E-06
<i>MAGEB2</i>	1,40	6,2E-04	<i>C12orf48</i>	0,47	1,3E-05
<i>CSAG3</i>	1,38	2,7E-03	<i>HELLS</i>	0,49	8,6E-06
<i>MAGEC1</i>	1,38	2,1E-03	<i>CCDC18</i>	0,51	5,3E-06
<i>TPTE</i>	1,06	5,9E-01	<i>PLK4</i>	0,52	4,0E-06
<i>DSCR8</i>	0,97	7,3E-01	<i>TTK</i>	0,54	6,9E-05
			<i>CCNA2</i>	0,58	8,2E-06
			<i>CDCA7L</i>	0,58	7,8E-06
			<i>ASF1B</i>	0,59	1,7E-05
			<i>VRK1</i>	0,59	2,7E-04
			<i>KIF2C</i>	0,66	6,0E-05
			<i>DIAPH3</i>	0,69	3,4E-04
			<i>RAD51AP1</i>	0,71	5,6E-02
			<i>CDC20</i>	0,73	7,0E-04
			<i>TAF5</i>	0,76	5,1E-03
			<i>CCNB1</i>	0,83	4,3E-02
			<i>CKS2</i>	1,00	9,7E-01

Figure S3. Exposure of HCT116 cells to DNMT1 inhibitor decitabine leads to down-regulation of cell mitosis/division-associated genes, and these genes show significant overlap with the group of ICCG genes. A) Genes showing transcriptional up-regulation (fold change ≥ 4 , adjusted p-value ≤ 0.01 , n=165) or down-regulation (fold change ≤ 0.5 , adjusted p-value < 0.01 , n=172) upon exposure to the DNMT1 inhibitor (GSE30985 dataset) were analyzed for enrichment of ontology terms. B) Overlap between down-regulated genes and ICCG genes was analyzed, and is expressed as observed/expected match ratio (log2). Fisher test was used for statistical analysis: * $p \leq 0.05$. C) Changes of expression observed in cells treated with the DNMT1 inhibitor are given for the 11 reference CG genes, and for ICCG genes (those that overlap with the down-regulated group of genes in the Sen et al. study; see Fig. S2).