Supplementary Table S1: Characteristics of patients

Colorectal cancer set I

Characteristics	N	%
Age at diagnosis, mean±S.D. (years)	63.5 ± 9.1	
Gender	·	
Male	35	69
Female	16	31
Primary tumor size	·	
pT2	3	6
pT3	39	76
pT4	9	18
Regional lymph node metastasis	·	
Absent (pN0)	14	27
Present (pN1-N2)	37	73
Distant metastasis	·	
cM0	25	49
cM1	26	51
Pathological stage	·	
II	7	14
III	18	35
IV	26	51
Histological grade	•	•
G1	6	12
G2	39	76
G3	6	12
Primary tumor localization		
Colon	25	49
Rectosigmoideum	12	24
Rectum	14	27
Chemotherapy		
5-FU ± leucovorin	18	35
FOLFOX	33	65
Grade 3 or 4 toxicity	4	8
Postoperative radiotherapy	7	14
Chemotherapy outcome		
Responders/nonresponders to palliative treatment	13/13	-
Relapse/remission after adjuvant treatment	7/18	-

Colorectal cancer set II

Characteristics	N	%
Age at diagnosis, mean±S.D. (years)	70.6 ± 9.4	
Gender		
Male	40	67
Female	20	33
Primary tumor size		
pT3	56	93
pT4	4	7
Histological grade		
G1	8	13
G2	43	77
G3	6	10
Not assessed	3	-
Primary tumor localization		
Colon	43	72
Rectosigmoideum	5	8
Rectum	12	20
Chemotherapy	<u> </u>	
Yes	18	30
No	42	73
Chemotherapy outcome		
Relapse/remission after adjuvant treatment	10/50	

Pancreatic cancer

Characteristics	N	%
Age at diagnosis, mean±S.D. (years)	63.9 ± 7.5	
Gender	'	
Male	14	44
Female	18	56
Primary tumor size		
pT1	1	3
pT2	4	13
pT3	26	81
pT4	1	3
Regional lymph node metastasis		
Absent (pN0)	14	44
Present (pN1)	18	56
Distant metastasis		
cM0	31	97
cM1	1	3
Pathological stage	-	_
I	3	9
II	27	85
III	1	3
IV	1	3
Histological grade		
G1	1	3
G2	20	63
G3	11	34
Angioinvasion		
pA0	21	66
pA1	11	34
Perineural invasion	·	
pP0	8	25
pP1	24	75
Resection margins	<u>.</u>	
R0 negative margin status	28	88
R1 positive margin status	4	12
KRAS mutations in codons 12 and 13	·	
wild type (GGTGGC)	17	53
G12V (G <u>T</u> TGGC)	7	22
G12D (GATGGC)	5	16
G12R (<u>C</u> GTGGC)	3	9
Adjuvant chemotherapy		
yes	19	59
no	11	41
unknown	2	-

Breast cancer

Characteristics	N	%
Age at diagnosis, mean±S.D. (years)	53.0 ± 11.5	
Menopausal status	<u>.</u>	
Premenopausal	31	46
Postmenopausal	37	54
Pathological tumor size, mean ±S.D. (mm)	21.0 ± 14.7	
Regional lymph node metastasis		
Absent (pN0)	41	60
Present (pN1-3)	27	40
Pathological stage		
I	24	37
II	34	52
III	7	11
Not assessed	3	-
Histological grade of tumor	1	I.
G1	8	12
G2	29	44
G3	29	44
Not assessed	2	-
Histological type of tumor	-	l
Invasive ductal carcinoma	57	84
Other type	11	16
Estrogen receptor expression	1	I.
Positive	47	69
Negative	21	31
Progesterone receptor expression	-	l
Positive	48	71
Negative	20	29
Expression of ERBB2		
Positive	16	24
Negative	51	76
Not assessed	1	-
Expression of Ki67, mean±S.D. (%)	32.6 ± 23.1	
Not assessed	1	-
Response to neoadjuvant chemotherapy	·	•
Complete or partial response/	38/25	60/40
Stable disease or progression		
Not assessed	5	-
	•	•

Figure S1: Heat maps showing results of the tree clustering (Ward's method, Euclidean distances) of the expression levels of 49 human ABC transporters (including *ABCC13* pseudogene) in non-neoplastic (control) tissues of breast carcinoma patients; Cl, cluster

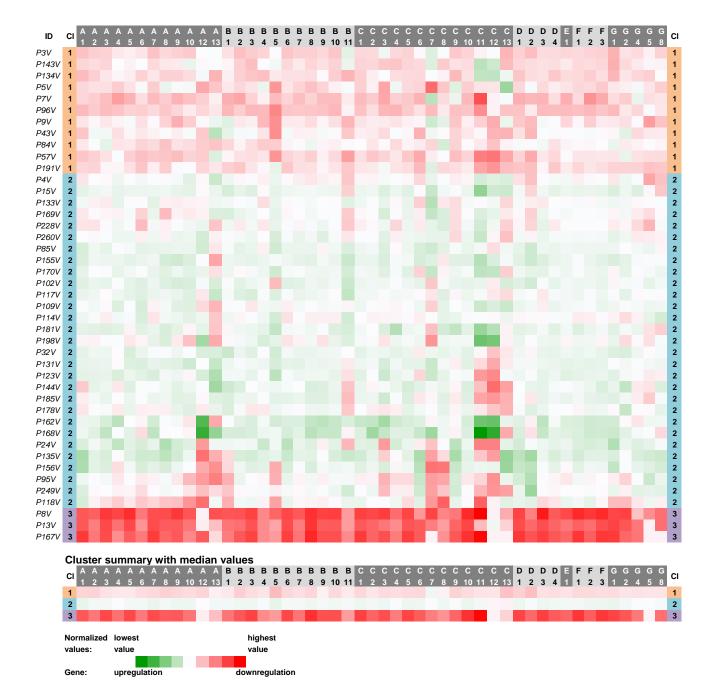


Figure S2: Results of the statistical analyses (the two-tailed Mann-Whitney *U* test) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the Colorectal I cohort for the individual ABC genes – *ABCA3* and *ABCA5*

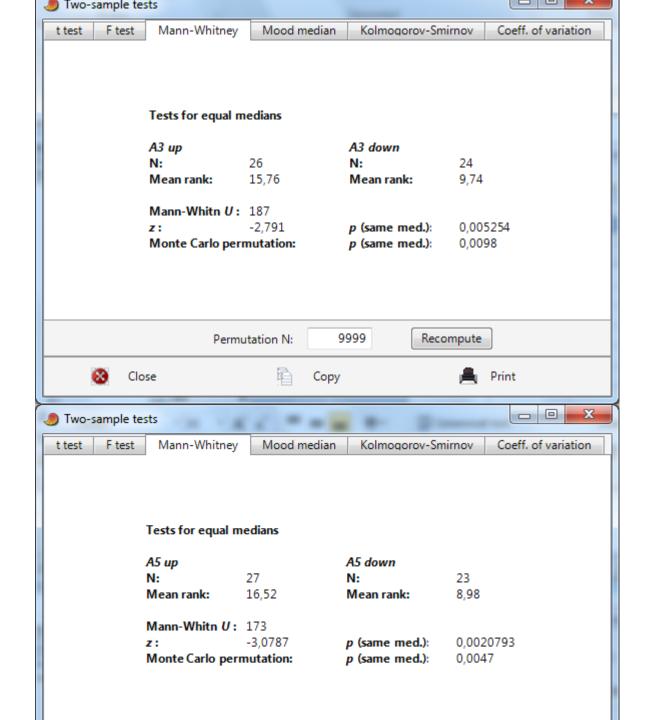


Figure S3: Results of the statistical analyses (the two-tailed Mann-Whitney *U* test) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the Colorectal I cohort for the individual ABC genes – *ABCB8* and *ABCB10*

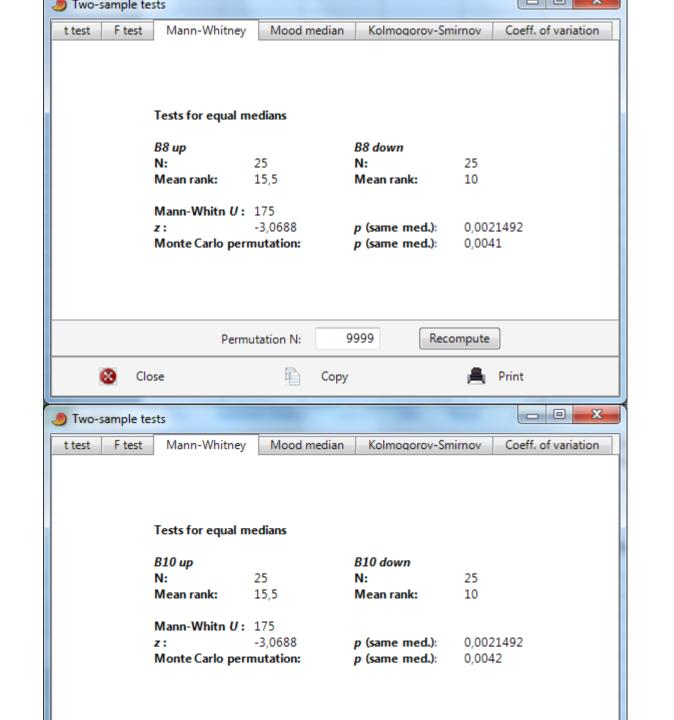


Figure S4: Results of the statistical analyses (the two-tailed Mann-Whitney *U* test) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the Colorectal I cohort for the individual ABC genes – *ABCC1* and *ABCC6*

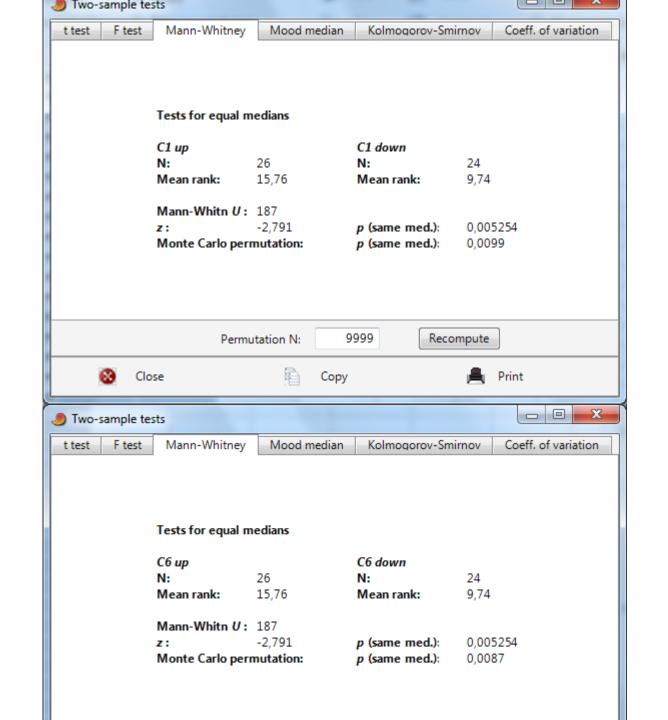


Figure S5: Results of the statistical analyses (the two-tailed Mann-Whitney *U* test) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the Colorectal I cohort for the individual ABC genes – *ABCC7* and *ABCC8*

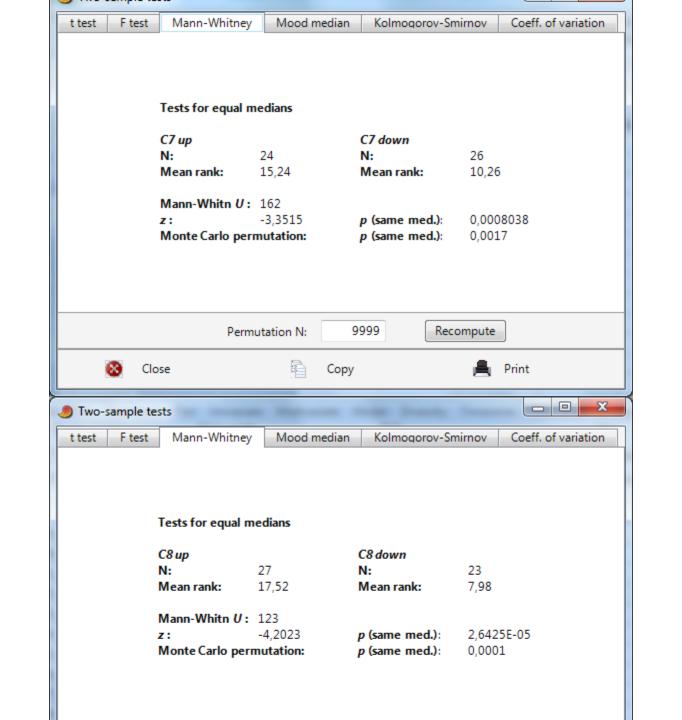


Figure S6: Results of the statistical analyses (the two-tailed Mann-Whitney *U* test) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the Colorectal I cohort for the individual ABC genes – *ABCC10* and *ABCF1*

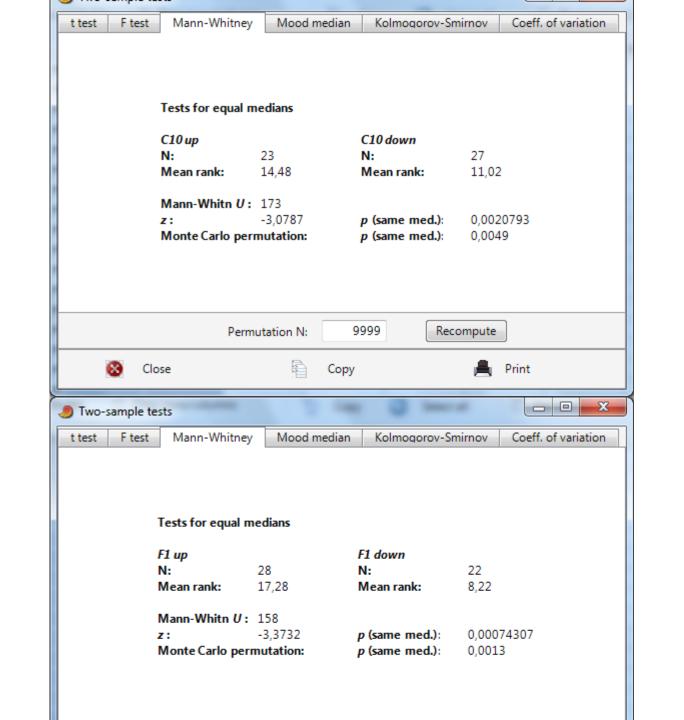


Figure S7: Results of the survival analyses (the Kaplan-Meier plots, the Log rank test p-values) comparing downregulated versus upregulated cases (based on the expression in non-neoplastic tissues) within the pancreatic tissue cohort for the individual ABC genes – ABCA2, ABCA4, ABCA5, ABCC2, and ABCD4

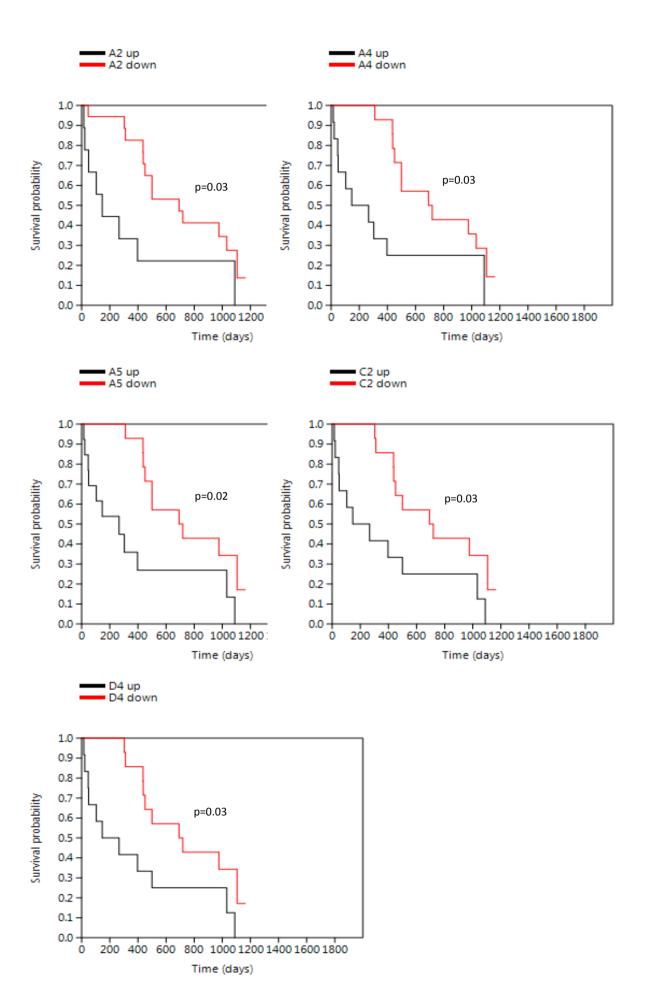


Figure S8: Survival analysis (the Kaplan-Meier plots, the Log rank test p-values) comparing the cluster 1 (with reduced number of ABC genes) and the rest – clusters 2 and 3 (representing downregulation versus median expression and upregulation of ABC genes) within the Colorectal I cohort (based on the expression in non-neoplastic tissues)

Cluster 1 Clusters 2+3

