ERRATUM

Differentially expressed genes between primary cancer and paired lymph node metastases predict clinical outcome of node-positive breast cancer patients

Yumei Feng · Baocun Sun · Xiaoqing Li · Liang Zhang · Yun Niu ·
Chunhua Xiao · Liansheng Ning · Zhiyi Fang · Yuli Wang · Lina Zhang ·
Jing Cheng · Wei Zhang · Xishan Hao

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Unfortunately a wrong table was printed in this article. Please find below the correct Table 3.

As a result the text also contains incorrect information. Please find below the correct information:

Identification of Candidate Differentially Expressed Genes

Seventy-nine differentially expressed genes between primary cancers and paired lymph node metastases were identified (Table 3), consisting of 50 genes downregulated and 29 up-regulated. The functions of these genes were related to cell migration and adhesion, extracellular matrix, cell growth, signal transduction, and metabolism, which are involved in biology process of metastasis.

Y. Feng · B. Sun · X. Li · Y. Niu · C. Xiao ·
L. Ning · Z. Fang · Y. Wang · L. Zhang ·
X. Hao (✉)
Breast Cancer Prevention and Treatment Key Laboratory
of Ministry of Education, Tianjin Medical University Cancer
Institute and Hospital, Tianjin 300060, China
e-mail: ymfeng@tijmu.edu.cn

L. Zhang · J. Cheng
National Engineering Research Center for Beijing Biochip
Technology, Beijing, China

W. Zhang
Department of Pathology, Cancer Genomics Core
Laboratory, The University of Texas MD Anderson Cancer
Center, Houston, TX, USA

Table 3 Genes changed in metastases relative in corresponding primary tumors

HUGO name	GB. accession	Cases	P*	P**	Cell adhesion and mobility	Extracellular matrix	Cell growth	Cell differentiation	Signal transduction	Transcription factor	Immune response	Metabolism and catalytic activity	Transport	Other function and unknown function
Down-regulated genes (50 genes)														
SFRP2	AF311912	23	6.40E−06	1.26E−03		✓		✓	✓					
COL11A1	NM_001854	23	6.41E−04	6.32E−05	✓	✓								
PDGFRL	NM_006207	20	6.82E−07	2.44E−09			✓							
MMP2	NM_004530	20	2.65E−06	5.03E−06		✓								
CTSK	NM_000396	20	2.75E−05	1.23E−05		✓						✓		
MMP7	NM_002423	20	1.08E−03	1.18E−03		✓						✓		
ASPN	NM_017680	20	1.91E−03	1.31E−04		✓						✓	✓	
ITGBL1	NM_004791	19	2.73E−07	3.03E−05	✓				✓					
OSF-2	NM_006475	19	2.29E−06	3.76E−08	✓			✓						
COL6A1	NM_001848	18	6.63E−07	2.02E−03	✓	✓								
FMO1	NM_002021	18	2.33E−06	1.84E−02								✓	✓	
COL5A2	NM_000393	18	3.69E−06	1.72E−06	✓	✓							✓	
HTRA3	AY040094	17	6.08E−05	2.15E−04	✓	✓	✓					✓		
SPOCK	NM_004598	17	6.36E−05	7.41E−04	✓	✓	✓	✓						
LUM	NM_002345	17	7.32E−05	1.20E−04	✓	✓								
SPON1	AB018305	17	9.62E−05	8.46E−06	✓	✓								✓
CILP	NM_003613	17	3.48E−04	1.49E−05	✓		✓		✓			✓		
LGALS1	NM_002305	16	2.05E−07	6.29E−03	✓				✓					
	AL359052	16	2.49E−05	4.25E−03										
PRSS11	NM_002775	16	1.99E−04	7.59E−06		✓	✓		✓					
OGN	NM_033014	16	2.41E−03	2.07E−03		✓	✓							
ECM1	NM_004425	16	6.08E−03	1.16E−01		✓			✓				✓	
STEAP	NM_012449	16	4.20E−02	2.84E−04			✓			✓				✓
SNAI2	BC014890	15	1.51E−06	3.39E−04	✓			✓			✓			
FN1	NM_002026	15	2.37E−05	6.04E−04	✓	✓			✓		✓		✓	
TNFAIP6	NM_007115	15	3.08E−05	1.82E−02		✓								
COL1A2	NM_000089	15	3.63E−05	1.02E−05		✓							✓	
COL3A1	NM_000090	15	1.22E−04	6.75E−05		✓							✓	
FBN1	NM_000138	15	4.53E−04	4.28E−07			✓							✓
CCL8	Y16645	15	1.24E−03	6.42E−02					✓		✓		✓	
CALU	NM_001219	15	5.50E−03	5.76E−01										✓
CSPG2	U16306	15	9.55E−03	1.12E−04	✓	✓								✓
GPNMB	NM_002510	15	1.55E−02	1.62E−02	✓		✓	✓	✓			✓		
KRT15	NM_002275	15	1.93E−02	1.58E−02				✓						
RUNX2	AW469546	14	4.18E−07	3.37E−04			✓	✓		✓				✓
GRP	NM_002091	14	6.71E−05	9.51E−03			✓		✓			✓	✓	✓
	AK022342	14	7.54E−05	2.32E−03										
PCOLCE	NM_002593	14	1.37E−04	6.09E−06			✓		✓			✓		
TGFB3	NM_003239	14	1.97E−04	5.91E−03			✓	✓					✓	
COL5A1	NM_000093	14	3.60E−04	5.06E−06		✓								✓

Table 3 continued

HUGO name	GB. accession	Cases	P*	P**	Cell adhesion and mobility	Extracellular matrix	Cell growth	Cell differentiation	Signal transduction	Transcription factor	Immune response	Metabolism and catalytic activity	Transport	Other function and unknown function
CDC45L	NM_003504	14	4.01E-04	1.72E-06			√							√
KRT14	NM_000526	14	4.55E-04	7.70E-03										√
CTHRC1	BC014245	14	6.69E-04	7.19E-08										√
MRC2	NM_006039	14	9.87E-04	9.43E-07					√			√	√	
RIS1	AF438313	14	1.26E-03	9.17E-03								√		
FCGR3A	J04162	14	2.79E-03	3.94E-05					√		√			
ABCC1	NM_004996	14	2.57E-02	7.32E-01					√			√	√	
CKTSF1B1	NM_013372	14	4.23E-02	7.08E-05					√					
NEFL	NM_006158	14	1.50E-05	1.89E-01										√
PIGR	AK026320	14	1.68E-02	2.04E-01		√			√					
Up-regulated genes (29 genes)														
PDE6H	NM_006205	22	1.21E-04	1.67E-02					√			√		
MS4A1	NM_021950	21	7.36E-04	8.15E-03							√			
C7	NM_000587	21	8.48E-04	6.70E-02		√					√			√
	AF343666	20	5.13E-03	8.99E-03					√		√			
LTB	NM_002341	18	9.26E-04	6.23E-05							√			
SELL	NM_000655	18	1.05E-03	1.12E-03	√						√			
RGS1	NM_002922	18	2.04E-03	8.27E-03					√		√			
FREB	NM_032738	17	1.98E-03	1.52E-01										
BIRC3	AF070674	17	5.91E-03	1.85E-04			√				√			
TRB@	X00437	17	1.15E-02	3.01E-04						√				
TNFAIP3	NM_006290	17	1.85E-02	1.77E-04			√	√	√			√		
PTPRC	NM_002838	17	2.94E-02	2.01E-05			√	√	√		√	√		
DUSP2	NM_004418	16	5.69E-05	4.91E-04			√							
ZFP36L2	U07802	15	1.47E-03	2.26E-06			√			√			√	√
HBB	NM_000518	15	6.30E-03	1.78E-04			√							
TCL1A	NM_021966	15	6.39E-03	6.70E-03			√			√				
KLF2	NM_016270	15	1.10E-02	9.30E-03					√		√			
EBI2	NM_004951	15	1.46E-02	4.55E-05					√		√			
CCL19	NM_006274	15	2.09E-02	1.49E-04		√	√		√		√			
RAFTLIN	D42043	14	7.43E-04	9.71E-03										
CORO1A	NM_007074	14	1.56E-03	2.32E-04			√		√			√		√
FOXO1A	NM_002015	14	4.33E-03	6.53E-05			√			√				
CR2	NM_001877	14	5.04E-03	4.73E-04					√		√			
TXNIP	NM_006472	14	6.41E-03	5.83E-02					√					
CD48	NM_001778	14	1.08E-02	3.84E-05		√					√			
TRA@	M12959	14	1.34E-02	1.50E-05					√					
PDK4	AF334710	14	1.47E-02	6.61E-03								√		
PRG1	NM_002727	14	3.38E-02	1.29E-05										
HSPC022	NM_014029	14	4.76E-02	1.65E-03										√

P *, P value for paired-samples t-test of primary breast cancer and matched lymph node metastases. P **, P value for Student's t-test of "high risk group" and "low risk group"