

SUPPLEMENTARY TABLES

Supplementary Table 1. Information of the three GEO datasets.

	GSE11783	GSE57560	GSE621
References	Gamper et al. [1]	Colaco et al. [2]	Keay et al. [3]
Platform	Affymetrix Human Genome U133 Plus 2.0 Array	Agilent-039494 SurePrint G3 Human GE v2 8x60K Microarray 039381	Res Gen Human
IC/BPS	5 samples (GSM298205, GSM298207, GSM298210, GSM298213, GSM402541)	13 samples (GSM1384758, GSM1384759, GSM1384760, GSM1384761, GSM1384762, GSM1384763, GSM1384764, GSM1384765, GSM1384766, GSM1384767, GSM1384768, GSM1384769, GSM1384770)	6 samples (GSM4885, GSM4887, GSM4889, GSM4894, GSM4895, GSM4896)
Normal	6 samples (GSM298203, GSM298204, GSM298212, GSM298215, GSM298216, GSM298217)	3 samples (GSM1384771, GSM1384772, GSM1384773)	6 samples (GSM4886, GSM4888, GSM4890, GSM4891, GSM4892, GSM4893)

Supplementary Table 2. Basic characteristics of patients.

	GSE11783		GSE57560		GSE621	
Group	IC/BPS patients	Control	IC/BPS patients	Control	IC/BPS patients	Control
No.	5	6	13	3	6	6
Gender	female	female	female	female	-	-
Race	white	white	-	-	-	-
Age [year], mean, SD	78.0, 7.5	59.2, 13.2	43.8, 16.7	57.3, 16.9	>18	>18

Supplementary Table 3. DEGs with adj. *P*-values < 0.05 and |log₂FC| > 2.

ID	log₂FC	<i>P</i>. Value	adj. <i>P</i>-values
AQP9	2.77	2.79E-07	9.06E-04
CFP	1.93	6.51E-06	1.06E-02
S100A8	2.34	2.57E-05	2.78E-02
CD37	1.94	4.08E-05	3.31E-02
BTK	1.73	6.30E-05	4.09E-02

REFERENCES

- Gamper M, Viereck V, Geissbühler V, Eberhard J, Binder J, Moll C, Rehrauer H, Moser R. Gene expression profile of bladder tissue of patients with ulcerative interstitial cystitis. *BMC Genomics*. 2009; 10:199. <https://doi.org/10.1186/1471-2164-10-199> PMID:[19400928](https://pubmed.ncbi.nlm.nih.gov/19400928/)
- Walker SJ, Colaco M, Koslov DS, Keys T, Evans RJ, Badlani GH, Andersson KE. Transcriptome analysis of bladder biopsy from interstitial cystitis/bladder pain syndrome patients. *Genom Data*. 2014; 2:366–8. <https://doi.org/10.1016/j.gdata.2014.10.009> PMID:[26484132](https://pubmed.ncbi.nlm.nih.gov/26484132/)
- Keay S, Seillier-Moiseiwitsch F, Zhang CO, Chai TC, Zhang J. Changes in human bladder epithelial cell gene expression associated with interstitial cystitis or antiproliferative factor treatment. *Physiol Genomics*. 2003; 14:107–15. <https://doi.org/10.1152/physiolgenomics.00055.2003> PMID:[12847144](https://pubmed.ncbi.nlm.nih.gov/12847144/)