

Supplementary Information

Increased CXCR3 Expression of Infiltrating Plasma Cells in Hunner Type Interstitial Cystitis

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Supplementary Table S1. Demographics and cell density in non-IC cystitis group associated with or without bladder cancer

	<b>Associated with bladder cancer</b>	<b>Associated without bladder cancer</b>	<b><i>P</i> value</b>
	(N = 8, n = 12)	(N = 7, n = 11)	
No. (male / female)	8 (5 / 3)	7 (3 / 4)	0.62
Mean age at the time of biopsy (years)	73.8 ± 10.8 [54 – 85]†	71.0 ± 9.5 [57 - 85]	0.56
CXCR3-positive cells (n/mm <sup>2</sup> )	73.3 (40.7 – 152.6) ‡	146.1 (12.9 – 185.9)	0.78
CD3-positive cells (n/mm <sup>2</sup> )	698.9 (354.0 – 1199.7)	353.0 (178.0 – 705.0)	0.07
CD20-positive cells (n/mm <sup>2</sup> )	208.8 (112.0 – 366.1)	162.6 (23.3 – 250.0)	0.41
CD138-positive cells (n/mm <sup>2</sup> )	56.8 (16.4 – 124.8)	49.0 (29.0 – 107.0)	1.00
Lymphoplasmacytic cells¶ (n/mm <sup>2</sup> )	1066.1 (582.5 – 1627.1)	530.9 (348.4 – 1462.7)	0.09

† ‡ Values are expressed as mean ± SD [range] for age, or median (interquartile range) for cell numbers.

¶ Lymphoplasmacytic cells: Sum of the CD3-positive cells, CD20-positive cells and CD138-positive cells

Supplementary Table S2. Correlations among cell numbers in non-IC cystitis group associated with or without bladder cancer

(cells/mm <sup>2</sup> )	CXCR3-positive cells		CD3-positive T cells		CD20-positive B cells		CD138-positive plasma cells		Lymphoplasmacytic cells‡	
	Associated with BC†	Associated without BC	Associated with BC	Associated without BC	Associated with BC	Associated without BC	Associated with BC	Associated without BC	Associated with BC	Associated without BC
CXCR3-positive cells			<b>0.56</b> ¶ (0.05)	<b>0.55</b> (0.04)	0.32 (0.31)	0.35 (0.08)	0.07 (0.81)	-0.11 (0.75)	<b>0.60</b> (0.04)	0.58 (0.06)
CD3-positive cells					0.50 (0.10)	<b>0.61</b> (0.04)	0.34 (0.28)	-0.08 (0.81)	<b>0.97</b> (<0.01)	<b>0.93</b> (<0.01)
CD20-positive B cells							<b>0.63</b> (0.03)	-0.25 (0.45)	<b>0.64</b> (0.02)	<b>0.77</b> (<0.01)
Cd138-positive plasma cells									0.39 (0.20)	-0.04 (0.92)

†Number of samples: 12 for patients with bladder cancer (BC), 11 for patients without BC

‡Lymphoplasmacytic cells: Sum of the CD3-positive cells, CD20-positive cells and CD138-positive cells

¶Spearman's correlation coefficient  $\rho$  and  $P$ -value (in parentheses), bold when  $P < 0.05$