

Table S1. Results of the one-way ANOVA (Kruskal-Wallis test) followed by Dunn's multiple comparison between the percentage rates of different T helper cell subsets in the peripheral blood.

Kruskal-Wallis Test	Dunn's Multiple Comparisons Test	Mean Rank Difference	<i>p</i> -Value
<i>p</i> -value < 0.0001	CXCR3 ⁺ vs. CCR5 ⁺	-25.58	>0.9999
	CXCR3 ⁺ vs. CCR3 ⁺	30.12	0.9204
	CXCR3 ⁺ vs. CCR4 ⁺	-85.58	<0.0001
	CXCR3 ⁺ vs. CD161 ⁺	50.95	0.0265
	CXCR3 ⁺ vs. CCR6 ⁺	-21.30	>0.9999
	CCR5 ⁺ vs. CCR3 ⁺	55.70	0.0082
	CCR5 ⁺ vs. CCR4 ⁺	-60.00	0.0029
	CCR5 ⁺ vs. CD161 ⁺	76.52	<0.0001
	CCR5 ⁺ vs. CCR6 ⁺	4.280	>0.9999
	CCR3 ⁺ vs. CCR4 ⁺	-115.7	<0.0001
	CCR3 ⁺ vs. CD161 ⁺	20.82	>0.9999
	CCR3 ⁺ vs. CCR6 ⁺	-51.42	0.0273
	CCR4 ⁺ vs. CD161 ⁺	136.5	<0.0001
	CCR4 ⁺ vs. CCR6 ⁺	64.28	0.0015
CD161 ⁺ vs. CCR6 ⁺	-72.24	0.0002	

ANOVA = analysis of variance; CD = cluster of differentiation; CXCR3 = C-X-C motif chemokine receptor 3; CCR = C-C chemokine receptor.

Table S2. Results of the one-way ANOVA (Kruskal-Wallis test) followed by Dunn's multiple comparison between the percentage rates of different T helper cell subsets in the synovial membrane.

Kruskal-Wallis Test	Dunn's Multiple Comparisons Test	Mean Rank Difference	<i>p</i> -Value
<i>p</i> -value < 0.0001	CXCR3 ⁺ vs. CCR5 ⁺	-38.61	0.1564
	CXCR3 ⁺ vs. CCR3 ⁺	61.01	0.0008
	CXCR3 ⁺ vs. CCR4 ⁺	6.689	>0.9999
	CXCR3 ⁺ vs. CD161 ⁺	23.77	>0.9999
	CXCR3 ⁺ vs. CCR6 ⁺	95.75	<0.0001
	CCR5 ⁺ vs. CCR3 ⁺	99.62	<0.0001
	CCR5 ⁺ vs. CCR4 ⁺	45.30	0.0399
	CCR5 ⁺ vs. CD161 ⁺	62.37	0.0005
	CCR5 ⁺ vs. CCR6 ⁺	134.4	<0.0001
	CCR3 ⁺ vs. CCR4 ⁺	-54.32	0.0047
	CCR3 ⁺ vs. CD161 ⁺	-37.25	0.1929
	CCR3 ⁺ vs. CCR6 ⁺	34.74	0.3050
	CCR4 ⁺ vs. CD161 ⁺	17.08	>0.9999
	CCR4 ⁺ vs. CCR6 ⁺	89.06	<0.0001
CD161 ⁺ vs. CCR6 ⁺	71.99	<0.0001	

CD = cluster of differentiation; CXCR3 = C-X-C motif chemokine receptor 3; CCR = C-C chemokine receptor.

Table S3. Results of the one-way ANOVA (Kruskal-Wallis test) followed by Dunn's multiple comparison between the percentage rates of different T helper cell subsets in the synovial fluid.

Kruskal-Wallis Test	Dunn's Multiple Comparisons Test	Mean Rank Difference	<i>p</i>-Value
<i>p</i> -value < 0.0001	CXCR3 ⁺ vs. CCR5 ⁺	-30.44	0.1560
	CXCR3 ⁺ vs. CCR3 ⁺	33.60	0.0701
	CXCR3 ⁺ vs. CCR4 ⁺	16.17	> 0.9999
	CXCR3 ⁺ vs. CD161 ⁺	53.29	0.0001
	CXCR3 ⁺ vs. CCR6 ⁺	21.46	> 0.9999
	CCR5 ⁺ vs. CCR3 ⁺	64.04	< 0.0001
	CCR5 ⁺ vs. CCR4 ⁺	46.60	0.0013
	CCR5 ⁺ vs. CD161 ⁺	83.73	< 0.0001
	CCR5 ⁺ vs. CCR6 ⁺	51.90	0.0002
	CCR3 ⁺ vs. CCR4 ⁺	-17.44	> 0.9999
	CCR3 ⁺ vs. CD161 ⁺	19.68	> 0.9999
	CCR3 ⁺ vs. CCR6 ⁺	-12.14	> 0.9999
	CCR4 ⁺ vs. CD161 ⁺	37.12	0.0299
	CCR4 ⁺ vs. CCR6 ⁺	5.295	> 0.9999
	CD161 ⁺ vs. CCR6 ⁺	-31.83	0.1309

CD = cluster of differentiation; CXCR3 = C-X-C motif chemokine receptor 3; CCR = C-C chemokine receptor.

Table S4. T cell infiltration in PB, SM and SF depending on UC and BC OA.

T cells	PB			SM			SF		
	UC Mean ± SEM	BC Mean ± SEM	UC:BC <i>p</i> -Value	UC Mean ± SEM	BC Mean ± SEM	UC:BC <i>p</i> -Value	UC Mean ± SEM	BC Mean ± SEM	UC:BC <i>p</i> -Value
CD3⁺									
Cell count	121988 ± 8867	123552 ± 7862	n.s.	47716 ± 14225	89224 ± 22348	n.s.	12508 ± 3805	16806 ± 6131	n.s.
Cells/mL (g)	13957 ± 1378	15962 ± 1279	n.s.	18927 ± 5769	32184 ± 8206	n.s.	2690 ± 1117	1752 ± 450	n.s.
CD4⁺									
Cell count	98189 ± 7204	96031 ± 7003	n.s.	33582 ± 10439	68345 ± 18189	n.s.	3940 ± 1405	8900 ± 3638	n.s.
Cells/mL (g)	11256 ± 1120	12462 ± 1141	n.s.	13491 ± 4474	24606 ± 6711	n.s.	881.8 ±	795.6 ± 251.4	n.s.
% of CD3 ⁺ cells	80.88 ± 1.97	77.10 ± 1.85	n.s.	65.92 ± 4.0	74.07 ± 1.47	*<0.05	36.41 ± 6.77	44.35 ± 3.72	n.s.
Th1									
CD4 ⁺ CXCR3 ⁺		±							
% of CD4 ⁺ cells	23.94 ± 3.42	16.67 ± 2.13	n.s.	45.18 ± 5.35	34.35 ± 3.37	n.s.	64.94 ± 9.91	51.39 ± 6.93	n.s.
CD4 ⁺ CCR5 ⁺									
% of CD4 ⁺ cells	22.38 ± 2.57	22.83 ± 1.87	n.s.	56.29 ± 3.92	48.62 ± 3.59	n.s.	82.57 ± 7.36	78.61 ± 4.93	n.s.
CD4 ⁺ CXCR3 ⁺ CCR5 ⁺									
% of CD4 ⁺ cells	1.50 ± 0.35	1.67 ± 0.38	n.s.	8.15 ± 4.5	3.82 ± 0.74	n.s.	4.08 ± 2.4	5.06 ± 1.93	n.s.
Th2									
CD4 ⁺ CCR3 ⁺									
% of CD4 ⁺ cells	15.24 ± 2.03	13.12 ± 1.23	n.s.	22.32 ± 3.06	19.55 ± 2.49	n.s.	39.76 ± 11.61	27.88 ± 3.28	n.s.
CD4 ⁺ CCR4 ⁺									
% of CD4 ⁺ cells	41.83 ± 4.11	38.68 ± 3.26	n.s.	35.13 ± 5.55	34.02 ± 2.28	n.s.	42.54 ± 10.49	40.93 ± 4.89	n.s.
CD4 ⁺ CCR3 ⁺ CCR4 ⁺		±							
% of CD4 ⁺ cells	1.55 ± 0.17	1.85 ± 0.2	n.s.	1.38 ± 0.16	2.70 ± 0.52	n.s.	7.6 ± 3.57	9.07 ± 3.23	n.s.
Th17									
CD4 ⁺ CD161 ⁺									
% of CD4 ⁺ cells	11.24 ± 1.23	11.51 ± 1.59	n.s.	33.90 ± 7.41	28.61 ± 1.72	n.s.	25.36 ± 6.2	18.71 ± 1.65	n.s.
CD4 ⁺ CCR6 ⁺									
% of CD4 ⁺ cells	19.33 ± 3.41	23.20 ± 2.17	n.s.	16.91 ± 7.63	11.12 ± 1.29	n.s.	44.29 ± 11.45	34.51 ± 4.99	n.s.

CD4 ⁺ CD161 ⁺ CCR6 ⁺									
% of CD4 ⁺ cells	8.15 ± 1.02	8.98 ± 0.88	n.s.	13.24 ±	10.30 ± 0.48	n.s.	12.03 ± 3.01	12.73 ± 1.59	n.s.

The distribution of T cells in peripheral blood (PB), synovial membrane (SM) and synovial fluid (SF) samples compared between unicompartmental (UC) and bicompartamental osteoarthritis (OA). T lymphocytes were stained for CD4 to detect T helper cells (Th; CD3+CD4+, in Table referred to as CD4+). To analyze Th subpopulations (Th1, Th2, Th17) CD4+ cells were stained for distinct surface markers (Th1: CXCR3, CCR5; Th2: CCR3, CCR4; Th17: CD161, CCR6). For CD3+ MACS-isolated T lymphocytes mean cell count and concentration levels (cells/sample volume (mL) or weight (g)) are shown. For CD4+ cells the mean CD4+ T cell percentage rate (% of CD3+ cells stained positive for CD4) was calculated additionally. For different Th1, Th2 and Th17 cells mean percentage rates of CD4+ cells (% of % of CD4+ cells) are displayed. Unpaired t-test was used to compare the mean percentage rates between UC and BC patients. *p*-Values < 0.05 were considered statistically significant and are indicated with asterisks: * *p* < 0.05. Data are presented as mean ± standard error of the mean (SEM). CD = cluster of differentiation; CXCR3 = C-X-C motif chemokine receptor 3; CCR = C-C chemokine receptor; n.s. = not significant.