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**Supplementary information**

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**A single-cell map of dynamic chromatin landscapes of immune cells in renal cell carcinoma**

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In the format provided by the authors and unedited

Source	Assay	Subject ID	Stage	Age	Sex	scATAC-seq				scRNA-seq			
						Total filtered CD45 <sup>+</sup> cells	Tumor	PBMC	Normal adjacent tissue	Total filtered CD45 <sup>+</sup> cells	Tumor	PBMC	Normal adjacent tissue
Avaden	Single-cell analysis	1002300	T1b,N0,M0	79	F	6,854	3,179	2,011	1,664	27,843	10,010	9,109	8,724
Avaden	Single-cell analysis	2001055	T1b,N0,M0	60	M	2,179	1,085	1,094	N/A	N/A	N/A	N/A	N/A
Avaden	Single-cell analysis	2001077	T1a,N0,M0	61	M	3,066	1,677	1,389	N/A	N/A	N/A	N/A	N/A
Avaden	Single-cell analysis	2001215	T1a,N0,M0	65	M	3,744	2,188	1,556	N/A	N/A	N/A	N/A	N/A
Avaden	Single-cell analysis	2001221	T1a,N0,M0	64	M	2,613	1,910	703	N/A	N/A	N/A	N/A	N/A
Avaden	Single-cell analysis	7001031	T1a,N0,M0	45	M	4,123	1,858	1,907	358	21,114	13,340	3,861	3,913
Avaden	Single-cell analysis, Flow cytometry	7001025	T1b,N0,M0	45	M	5,084	1,892	1,739	1,453	34,215	9,839	15,708	8,668
Avaden	Single-cell analysis, Flow cytometry	1002310	T1b,N0,M0	65	M	7,028	3,062	2,395	1,571	24,066	7,787	9,485	6,794
Discovery Life science	Flow cytometry	120891915	I	72	M								
Discovery Life science	Flow cytometry	110003259	I	52	M								
Discovery Life science	Flow cytometry	200003349	I	49	M								
Discovery Life science	Flow cytometry	121576700	I	66	M								
Discovery Life science	Flow cytometry	110042469	I	56	M								
Discovery Life science	Flow cytometry	200002022	I	76	F								
Discovery Life science	Flow cytometry	200001101	I	65	F								
Discovery Life science	Flow cytometry	110003572	I	68	F								
Discovery Life science	Flow cytometry	200000629	I	57	M								
Discovery Life science	Flow cytometry	110002687	I	52	M								
Discovery Life science	Flow cytometry	121222634	I	28	M								
Discovery Life science	Flow cytometry	200000912	I	47	M								
Discovery Life science	Flow cytometry	121441278	I	61	M								
Discovery Life science	Flow cytometry	110042455	I	62	M								

**Supplementary Table 1. Patient information, sample source and cell numbers for the ccRCC samples used in this study.**