

**Compartmentalization of intrarenal programmed cell death
protein 1-ligand 1 and its receptor in kidney injury
related to immune checkpoint inhibitor nephrotoxicity**

Supplementary Material

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Running title: Renal PD-L1/PD-1 in ICI-related nephrotoxicity

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Supplementary Table 1. Pathways correlated with tubulointerstitial CD274 mRNA expression.

Pathway	Entities found	Entities total	Entities ratio	Entities p	Entities FDR	Species
Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	8	316	0.021	2.13E-5	4.3E-3	Homo sapiens
Transport of glycerol from adipocytes to the liver by Aquaporins	2	3	0	6.03E-5	6.09E-3	Homo sapiens
DAP12 interactions	3	53	0.004	1.04E-3	6.98E-2	Homo sapiens
TP53 Regulates Transcription of Caspase Activators and Caspases	2	20	0.001	2.57E-3	1.13E-1	Homo sapiens
Passive transport by Aquaporins	2	21	0.001	2.83E-3	1.13E-1	Homo sapiens
MECP2 regulates neuronal receptors and channels	2	32	0.002	6.41E-3	1.93E-1	Homo sapiens
Peptide ligand-binding receptors	4	203	0.013	6.88E-3	1.93E-1	Homo sapiens
Thrombin signalling through proteinase activated receptors (PARs)	2	36	0.002	8.03E-3	2.01E-1	Homo sapiens

Supplementary Table 2. Pathways correlated with tubulointerstitial *PDCD1* mRNA expression.

Pathway	Entities found	Entities total	Entities ratio	Entities p	Entities FDR	Species
Class B/2 (Secretin family receptors)	18	99	0.007	4.00E-05	4.32E-2	Homo sapiens
Potassium Channels	16	107	0.007	8.48E-4	4.67E-1	Homo sapiens
Highly sodium permeable postsynaptic acetylcholine nicotinic receptors	4	9	0.001	2.19E-3	4.83E-1	Homo sapiens
Presynaptic nicotinic acetylcholine receptors	5	15	0.001	2.2E-3	4.83E-1	Homo sapiens
Acetylcholine binding and downstream events	5	17	0.001	3.73E-3	5.86E-1	Homo sapiens
Postsynaptic nicotinic acetylcholine receptors	5	17	0.001	3.73E-3	5.86E-1	Homo sapiens
Voltage gated Potassium channels	8	44	0.003	5.31E-3	7.27E-1	Homo sapiens
Antimicrobial peptides	15	123	0.008	7.75E-3	8.13E-1	Homo sapiens
GPCR ligand binding	51	606	0.04	8.69E-3	8.13E-1	Homo sapiens
Interleukin-36 pathway	3	7	0	8.7E-3	8.13E-1	Homo sapiens