

Supplementary Information (SI) for Food & Function. This journal is © The Royal Society of Chemistry 2025																	
							TXNIP mRNA	NLRP3 mRNA	TXNIP	NLRP3	ASC mRNA	Caspase- 1 mRNA	ASC	Cleaved Caspase- 1	IL-1B	IL18	GSDMD-N
NC1	1.627	0.752	36.5	0.472	2.7	1.5	0.9957	1.0215	50.7	0.563	1.0439	1.1127	0.417	0.376	0.425	53.2	0.546
NC2	2.272	0.472	42.7	0.625	3.3	1.7	1.0044	1.2056	73.5	0.417	1.1287	1.0352	0.357	0.285	0.305	38.7	0.385
NC3	1.854	0.628	47.5	0.535	3.5	1.8	1.1072	1.1136	61.8	0.685	1.0145	1.0683	0.438	0.651	0.276	62.5	0.725
NC4	1.953	0.533	49.8	0.715	3.2	1.6	0.9201	0.9988	55.3	0.453	1.1363	1.0447	0.383	0.598	0.298	49.2	0.445
NC5	2.184	0.823	38.6	0.824	2.9	2	0.9812	1.0543	58.2	0.572	0.9893	0.9744	0.492	0.335	0.366	41.5	0.656
NC6	1.775	0.596	45.5	0.687	3.7	1.93	1.0754	0.9445	67.1	0.661	1.0623	0.9525	0.556	0.466	0.453	57.8	0.785
Mean	1.944	0.634	43.4	0.64	3.22	1.76	1.0140	1.0564	61.10	0.56	1.0625	1.0313	0.441	0.452	0.354	50.5	0.590
ISP1	0.541	1.866	176.4	2.432	0.85	0.5	4.3621	7.2728	173.2	1.648	4.2415	5.1254	1.845	1.784	1.428	178.2	1.827
ISP2	0.387	2.15	264.5	2.265	0.72	0.4	5.6712	5.6335	158.5	2.182	4.1248	4.9152	1.635	2.152	1.286	225.7	2.325
ISP3	0.684	1.706	183.2	2.457	0.8	0.6	4.6721	5.8232	183.4	1.597	4.5321	4.5709	1.376	1.937	1.576	164.3	2.172
ISP4	0.425	1.914	195.5	2.758	0.93	0.72	6.0442	6.8845	164.3	1.685	5.3826	5.6213	1.455	1.886	1.336	187.5	1.974
ISP5	0.476	1.792	216.8	2.623	0.67	0.56	5.2311	6.3211	169.5	1.741	5.1165	5.7091	1.575	1.932	1.628	194.3	2.086
ISP6	0.723	2.07	248.7	2.518	1.04	0.68	6.5633	7.5862	177.8	1.858	4.8412	6.0566	1.736	2.055	1.677	211.9	1.885
Mean	0.539	1.916	214.2	2.51	0.84	0.58	5.4240	6.5869	171.12	1.79	4.7065	5.3331	1.604	1.958	1.489	193.7	2.045
ISP+VA 1	1.562	1.025	124.5	1.486	1.3	1.1	2.1101	1.6718	113.7	0.852	1.2351	1.5173	0.954	0.853	0.754	84.3	1.273
ISP+VA 2	1.874	0.823	84.3	1.722	1.7	1.2	1.4492	1.3012	76.2	0.727	1.4813	1.6154	0.638	1.142	0.462	112.7	1.106
ISP+VA 3	1.675	0.637	65.2	1.524	1.5	0.9	1.2874	1.2552	86.4	1.003	1.5318	1.3733	0.724	0.765	0.886	73.5	0.856
ISP+VA 4	1.745	0.733	93.2	1.245	1.8	1.26	1.5611	1.4663	90.5	0.963	1.9527	1.6529	0.811	0.911	0.576	78.2	0.932
ISP+VA 5	1.624	0.952	115.7	1.375	2.1	1.3	1.9871	1.5548	96.4	0.897	1.7518	1.4771	0.874	0.798	0.687	95.4	0.975
ISP+VA 6	1.497	0.695	77.9	1.624	1.6	1.18	1.7725	1.6025	104.8	0.828	1.3578	1.4395	0.695	1.089	0.825	105.8	1.187
Mean	1.663	0.811	93.5	1.50	1.67	1.16	1.6946	1.4753	94.67	0.88	1.5518	1.5126	0.783	0.926	0.698	91.7	1.055
Unit	ng/mg protein	ng/mg protein	pg/mg protein	nmol/ mg protei n	U/mg protei n	nmol/ mg protei n			pg/mg protein	ng/mg protein			ng/m g protei n	ng/mg protein	ng/m g protei n	pg/mg protein	ng/mg protein