

Supplementary Table 3. Statistical comparisons of tumor growth characteristics and metastasis scores

A. Comparisons of tumor growth characteristics and metastasis scores for HP vs HPN1 mice																
Variable	Test*	HP n	HPN1 n	HP Mean	HP SEM	HPN1 Mean	HPN1 SEM	P-Value	HP Median	HP 25%	HP 75%	HPN1 Median	HPN1 25%	HPN1 75%	P-Value	
Tumor onset days post-irradiation	t-test	20	24	135.5	9.9	147.2	11.6	0.460								
Days between onset and endpoint	t-test	20	24	121.3	11.7	100.7	9.4	0.173								
Number of primary tumors monitored for growth	Rank sum test	20	24						3.0	1.0	4.0	2.0	1.0	2.0	0.036	
Largest tumor at necropsy volume mm ³	Rank sum test	20	24						70.0	48.2	191.6	258.3	70.4	638.9	0.061	
Slope of growth curve for largest tumor: (tumor volume)/Days post-UV	Rank sum test	20	24						0.0083	0.0058	0.0154	0.0125	0.0077	0.0166	0.263	
Final Combined Tumor Volume mm ³	Rank sum test	20	24						210.4	125.5	402.9	318.6	115.9	770.9	0.225	
Lung metastasis score	Rank sum test	20	24						0.0	0.0	1.5	10.0	0.3	76.5	<0.001	
Composite lymph node volume score	Rank sum test	20	24						1.5	0.0	6.8	8.0	5.0	24.5	0.002	
B. Comparisons of tumor growth characteristics and metastasis scores for HP vs HPN2 mice																
Variable	Test*	HP n	HPN2 n	HP Mean	HP SEM	HPN2 Mean	HPN2 SEM	P-Value	HP Median	HP 25%	HP 75%	HPN2 Median	HPN2 25%	HPN2 75%	P-Value	
Tumor onset days post-irradiation	t-test	20	25	135.5	9.9	112.6	10.5	0.126								
Days between onset and endpoint	t-test	20	25	121.3	11.7	86.8	10.0	0.030								
Number of primary tumors monitored for growth	Rank sum test	20	25						3.0	1.0	4.0	1.0	1.0	2.0	0.033	
Largest tumor at necropsy volume mm ³	Rank sum test	20	25						70.0	48.2	191.6	357.1	63.8	478.9	0.073	
Slope of growth curve for largest tumor: (tumor volume)/Days post-UV	Rank sum test	20	25						0.0083	0.0058	0.0154	0.0154	0.0113	0.0361	0.014	
Final Combined Tumor Volume mm ³	Rank sum test	20	25						210.4	125.5	402.9	559.4	249.4	1009.8	0.028	
Lung metastasis score	Rank sum test	20	25						0.0	0.0	1.5	12.0	0.0	79.5	<0.001	
Composite lymph node volume score	Rank sum test	20	25						1.5	0.0	6.8	8.0	3.0	37.0	0.007	
C. Comparisons of tumor growth characteristics and metastasis scores for male vs female mice across all genotypes																
Variable	Test*	Male n	Female n	Male Mean	Male SEM	Female Mean	Female SEM	P-Value	Male Median	Male 25%	Male 75%	Female Median	Female 25%	Female 75%	P-Value	
Tumor onset days post-irradiation	Rank sum test	37	32						148	92.00	173.0	104.50	78.750	168.5	0.188	
Days between onset and endpoint	t-test	37	32	114.6	8.9	86.7	7.5	0.021								
Number of primary tumors monitored for growth	Rank sum test	37	32						2.0	1.0	3.5	1.0	1.0	2.0	0.006	
Largest tumor at necropsy volume mm ³	Rank sum test	37	32						198.5	82.6	425.4	153.9	40.2	613.3	0.661	
Slope of growth curve for largest tumor: (tumor volume)/Days post-UV**	Rank sum test	37	32						0.00929	0.00654	0.0156	0.0148	0.0113	0.0295	0.005	
Final Combined Tumor Volume mm ³	Rank sum test	37	32						343.7	210.1	800.8	259.0	65.4	670.3	0.134	
Lung metastasis score	Rank sum test	37	32						0.0	0.0	10.0	20.5	2.3	80.8	<0.001	
Composite lymph node volume score	Rank sum test	37	32						4.0	1.0	9.5	14.0	2.3	57.0	0.008	
D. Comparisons of tumor growth characteristics and metastasis scores for male HP vs HPN1 mice																
Variable	Test*	HP n	HPN1 n	HP Mean	HP SEM	HPN1 Mean	HPN1 SEM	P-Value	HP Median	HP 25%	HP 75%	HPN1 Median	HPN1 25%	HPN1 75%	P-Value	
Tumor onset days post-irradiation	t-test	14	15	133.9	10.9	154.6	14.5	0.271								
Days between onset and endpoint	t-test	14	15	136.1	14.7	93.9	12.2	0.035								
Number of primary tumors monitored for growth	Rank sum test	14	15						3.5	1.75	4.0	2.0	1.0	3.0	0.043	
Largest tumor at necropsy volume mm ³	Rank sum test	14	15						82.6	46.9	161.1	357.3	150.0	669.0	0.012	
Slope of growth curve for largest tumor: (tumor volume)/Days post-UV	Rank sum test	14	15						0.0079	0.0055	0.0149	0.0124	0.0064	0.0167	0.419	
Final Combined Tumor Volume mm ³	Rank sum test	14	15						210.4	164.1	354.3	390.3	258.4	849.2	0.052	
Lung metastasis score	Rank sum test	14	15						0.0	0.0	0.0	1.5	0.0	73.8	0.029	
Composite lymph node volume score	Rank sum test	14	15						1.0	0.0	4.0	6.0	4.0	18.0	0.013	
E. Comparisons of tumor growth characteristics and metastasis scores for male HP vs HPN2 mice																
Variable	Test*	HP n	HPN2 n	HP Mean	HP SEM	HPN2 Mean	HPN2 SEM	P-Value	HP Median	HP 25%	HP 75%	HPN2 Median	HPN2 25%	HPN2 75%	P-Value	
Tumor onset days post-irradiation	t-test	14	8	133.9	10.9	121.0	19.3	0.535								
Days between onset and endpoint	t-test	14	8	136.1	14.7	115.6	20.3	0.417								
Number of primary tumors monitored for growth	t-test	14	8	3.0	0.3	1.8	0.4	0.031								
Largest tumor at necropsy volume mm ³	Rank sum test	14	8						82.6	46.9	161.1	371.3	156.5	444.0	0.005	
Slope of growth curve for largest tumor: (tumor volume)/Days post-UV	Rank sum test	14	8						0.0079	0.0055	0.0149	0.0111	0.0073	0.0147	0.357	
Final Combined Tumor Volume mm ³	Rank sum test	14	8						210.4	164.1	354.3	798.8	444.1	1152.4	0.004	
Lung metastasis score	Rank sum test	14	8						0.0	0.0	0.0	1.5	0.0	73.8	0.029	
Composite lymph node volume score	Rank sum test	14	8						1.0	0.0	4.0	4.5	3.0	14.5	0.049	
F. Comparisons of tumor growth characteristics and metastasis scores for face tumor-positive vs face tumor-negative mice across all genotypes																
Variable	Test*	Face tumor-positive n	Face tumor-negative n	Face tumor-positive Mean	Face tumor-positive SEM	Face tumor-negative Mean	Face tumor-negative SEM	P-Value	Face tumor-positive Median	Face tumor-positive 25%	Face tumor-positive 75%	Face tumor-negative Median	Face tumor-negative 25%	Face tumor-negative 75%	P-Value	
Tumor onset days post-irradiation	Rank sum test	9	60						129.5	82.0	168.5	127.0	95.0	198.5	0.769	
Days between onset and endpoint	t-test	9	60	63.0	10.7	107.4	6.5	0.013								
Number of primary tumors monitored for growth	Rank sum test	9	60						1.0	1.0	3.0	2.0	1.0	3.0	0.635	
Largest tumor at necropsy volume mm ³	Rank sum test	9	60						145.8	63.2	388.1	191.9	50.4</td			