Supplementary Table S1: Total count (TC) per gram dry weight and number of cases of isolations (NCI) of different fungal genera and species isolated from different nuts on Dichloran Rose-Bengal Chloramphenicol agar at 25°C

Fungal genera and species	**Pistachio**		**Hazelnut**		**Cashews**		**Peanut**		**Almond**		**Walnut**		**Chestnut**	
Aspergillus	5827	-	729	-	1889	-	3703	-	2905	-	851	-	718	-
A. flavus	1900	5	235	5	810	5	1122	5	913	5	222	5	199	5
A. fumigatus	633	3	55	2	99	3	313	4	200	3	50	4	39	3
A. niger	1122	5	100	5	612	5	855	5	716	5	158	5	122	5
A. oryzae	322	2	48	3	66	3	180	3	122	4	66	3	55	1
A. parasiticus	1000	5	178	2	189	4	744	3	544	1	218	2	200	5
A. tamari	100	3	-	-	11	4	-	-	5	2	5	1	-	-
A. terreus	15	4	-	-	20	1	-	-	7	3	4	3	-	-
A. japonicas	610	2	90	2	70	1	412	2	333	5	100	5	80	2
A. nomius	21	1	5	1	-	-	15	1	22	4	11	3	5	2
A. wentii	33	1	10	1	5	1	22	1	-	-	-	-	8	1
A. ochraceus	16	2	-	-	7	1	-	-	10	2	10	2	7	3
A. flavipes	55	4	8	2	-	-	40	2	33	1	7	3	3	3
Penicillium	957	-	213	-	261	-	764	-	609	-	126	-	122	-
P. puberulum	90	2	33	1	21	2	77	1	65	1	-	-	-	-
P. aurantiogriseum	212	1	60	2	51	3	184	2	155	3	33	4	-	-
P. oxalicum	80	4	30	2	38	4	65	5	49	4	18	4	15	1

P. chrysogenum	166	5	30	5	85	5	133	5	100	5	40	5	33	5
P. granulatum	17	3	3	2	11	2	22	3	15	2	-	-	10	1
P. citrinum	110	5	33	5	15	4	90	4	75	4	19	4	25	5
P. comembeti	30	2	3	1	3	1	22	2	16	2	11	3	9	2
P. funiculosum	55	1	-	-	-	-	28	1	19	1	-	-	10	2
P. verrucosum	90	1	5	1	3	2	88	2	71	2	3	2	1	4
P. crustosum	18	3	1	2	-	-	10	3	7	2	2	2	5	1
P. fellutanum	29	3	-	-	15	2	13	2	8	2	-	-	14	1
P. italicum	60	5	15	4	19	4	32	2	29	4	-	-	-	-
Alternaria	108	-	34	-	22	-	77	-	63	-	5	-	10	-
A. Alternata	45	5	15	5	-	-	32	5	28	5	5	4	-	-
A. Tenuissima	63	2	19	4	22	4	45	2	35	3	-	-	10	3
Cladosporium	66	-	15	-	-	-	55	-	-	-	10	-	7	-
Cladosporium cladosporoides	66	4	15	2	-	-	55	1	-	-	10	2	7	1
Cochliobolus	77	-	14	-	20	-	33	-	22	2	-	-	3	-
Cochliobolus lunatus	77	1	14	1	20	2	33	2	22	2	-	-	3	2
Botryotrichum	22	-	10	-	19	-	-	-	15	1	-	-	10	-
Botryotrichum piluliferum	22	1	10	1	19	1	-	-	15	1	-	-	10	1
Fusarium	286	-	88	-	31	-	164	-	136	-	25	-	40	-
F. oxysporum	120	5	33	4	18	5	66	4	59	5	-	-	25	5

F. moniliforme	166	5	55	4	13	4	98	5	77	4	25	5	15	4
Rhizopus	189	-	13	-	10	-	154	-	122	-	22	-	-	-
R. oryzae	156	4	13	5	-	-	133	5	122	5	15	4	-	-
R. stolonifer	33	5	-	-	10	2	21	3	-	-	7	3	-	-
Trichoderma	204	-	34	-	53	-	155	-	130	-	20	-	25	-
T. hamatum	71	1	14	1	18	1	66	1	55	4	5	4	18	3
T. harzianm	133	2	20	2	35	3	89	1	75	5	15	3	7	2
Bispora	47	-	13	-	18	-	33	-	45	-	-	-	-	-
Bispora antennata	47	1	13	2	18	1	33	2	45	1	-	-	-	-
Total count	**7783**		**1163**		**2323**		**5138**		**4047**		**1059**		**935**	
Number of genera	**10**		**10**		**9**				**10**		**8**		**5**	
Number of species	**36**		**33**		**34**				**36**		**25**		**22**	

Supplementary Table S2: Antioxidant activity of different concentrations of 5'-HA

Sample conc. (μg/ml)	% Inhibition	
	5'-HA	Ascorbic acid
20	26.55^{a}±0.04	39.23^{a}± 0.2
40	46.66^{b}±0.02	52.36^{b}±0.6
80	80.31^{c}±0.41	82.61^{c}±0.2
IC_{50}	72.45±0.36	52.65±0.41

The means (±) standard error followed by the same letter in the same column are not significantly different according to ANOVA and Duncan's multiple range tests.[i]

Supplementary Table S3: List of primer sequences used for qPCR

Gene name	Forward primer 5'-3'	Reverse Primer 5'-3'
aflR	F: GCGGCACAGCTTGTTCTGA	R: CCGGTATCCCTGCTGCATC
aflS	F: AACGGTCGTGCATGTGGG	R: CGGCCTTAGCTTCTGTCTGC
aflA	F: CCAGTCGGTGGTGTGCAAAA	R: CGCAGCACCCCAGAGCTT
aflB	F: GTCTGCGCAGGCCATTTC	R: AGCTCTTGGCCTTCAACAGTCTC
aflC	F: CTGACCCCGGCATTTCG	R: TGCCAGATTCCTCATATTCCCG
aflL	F: CCGATTCGTACCCGAAGAGAC	R: TCGGCAAAGTAGGTACCGAGAT
aflM	F:TCCTGGAGCCATTAAGACTGATATGT	R: GCCAAGCGGCGCACTC
aflN	F: CCAGGCTCGCCAGGAAGT	R: AGCTTGAACTCTGGCATAGGAAGG
aflP	F:TATTCTACATGACTATCCCGATGCTG	R: GCGCGACTTGCTTGGGT
aflQ	F: GGGAGGATCGGACACGACA	R: CATGGCCACGAAAAAGCTAGAC
aflW	F: CGATGTCTTTGTGCGGACG	R: GTGTTGCCCGCTAGCACTC
atfA	F: GCAGTTACAGGCACCTTAACACATC	R: CGGCGCCTGGGAGTCTT
atfB	F:CAGCGAAGTGCTCAACCTCAAGAACG	R: GATCGCATGGGAGAAACCAGATCG
Sod1	F: CGAGAGCGTACTTGGCCGT	R: TCTTCTTGGACTCCGGGTGTT
catA	F: ATTAAGTTCCCGGATTTTGTCCA	R: GGTACCTCGTTGTGCGGCT
Cat2	F: TGGCAGCAGTGACGGAAAG	R: AGCCCAAGCGGCAACAA
β-tub	F: AACGTCTACTTCAACGAGGCCA	R: GTACCAGGCTCAAGATCAACGAG