

Ex vivo HNSCC clinical studies using saliva and antiviral or antibacterial chewing gums reveal reduction in carcinogenic microbes

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Supplementary Table S1: Total viable counts of *P. gingivalis* (Pg) in saliva pellet samples of non-cancer subjects. Fourteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. Samples were analyzed on P.GING agar plates after anaerobic incubation for 72h at 37°C. N – Non-cancer sample.

Sample ID	Pg (CFU/mL)
N1	4 x 10 ³
N2	1.7 x 10 ⁴
N3	3.0 x 10 ⁴
N4	7.0 x 10 ⁴
N5	3.0 x 10 ⁴
N6	1.0 x 10 ⁴
N7	1.1 x 10 ⁴
N8	1.7 x 10 ⁴
N9	2.0 x 10 ⁴
N10	4.0 x 10 ³
N11	2.2 x 10 ⁴
N12	1.7 x 10 ⁴
N13	8.0 x 10 ³
N14	2.4 x 10 ⁵

Supplementary Table S2: Total viable counts of *P. gingivalis* (Pg) in saliva pellet samples of OSCC patients before and after bean gum + protegrin-1 treatment. Sixteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. All samples were treated with bean gum (166.66 mg/mL) + protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment all samples were inoculated on P.GING agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). S – Saliva sample. NA - Treatment was not performed on samples that did not show growth.

Sample ID	Pg (CFU/mL)	
	Untreated	Bean gum + protegrin-1
S1	8.0×10^3	0
S2	4.5×10^7	0
S3	0	NA
S4	1.0×10^6	0
S5	1.7×10^6	0
S6	5.6×10^5	0
S7	0	NA
S8	1.7×10^8	0
S9	2.0×10^7	0
S10	5.2×10^6	0
S11	8.0×10^6	0
S12	6.5×10^7	0
S13	1.3×10^7	0
S14	1.2×10^7	0
S15	2.4×10^5	0
S16	1.8×10^7	0

Supplementary Table S3: Total viable counts of *P. gingivalis* (Pg) in oral rinse samples of non-cancer subjects. Twenty-two oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were inoculated on P.GING agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. ORN – Oral rinse sample of non-cancer subjects.

Sample ID	Pg (CFU/mL)
ORN-1	2.8×10^3
ORN-2	1.8×10^3
ORN-3	1×10^3
ORN-4	2×10^4
ORN-5	4.5×10^3
ORN-6	2.2×10^3
ORN-7	7.0×10^3
ORN-8	2.0×10^6
ORN-9	4.5×10^2
ORN-10	3.9×10^2
ORN-11	8.0×10^3
ORN-12	1.4×10^3
ORN-13	1.0×10^3
ORN-14	2.4×10^2
ORN-15	1.5×10^3
ORN-16	6.0×10^3
ORN-17	6.0×10^3
ORN-18	2.0×10^3
ORN-19	6.0×10^3
ORN-20	1.5×10^3
ORN-21	6.0×10^3
ORN-22	4.0×10^5

Supplementary Table S4: Total viable counts of *P. gingivalis* (Pg) in oral rinse samples of OSCC patients before and after bean gum + protegrin-1 treatment. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were treated with bean gum (166.66 mg/mL) + protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment, all samples were inoculated on P.GING agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). O-Oral rinse sample. NA – Treatment was not performed on samples that did not show growth.

Sample ID	Pg (CFU/mL)	
	Untreated	Bean gum + protegrin-1
O1	0	NA
O2	2.0×10^4	0
O3	2.1×10^4	0
O4	1.9×10^6	0
O5	3.3×10^6	0
O6	4.0×10^4	0
O7	3.0×10^4	0
O8	4.0×10^5	0
O9	3.0×10^5	0
O10	1.1×10^6	0
O11	8.0×10^4	0
O12	1.7×10^5	0
O13	2.4×10^7	0
O14	0	NA
O15	2.5×10^6	0
O16	2.6×10^5	0
O17	3.1×10^6	0
O18	1.6×10^4	0
O19	1.2×10^5	0
O20	0	NA
O21	6.5×10^5	0

O22	0	NA
O23	7.0×10^3	0
O24	5.0×10^3	0
O25	4.0×10^4	0
O26	5.0×10^5	0
O27	2.3×10^5	0
O28	2.5×10^6	0
O29	2.5×10^6	0
O30	0	NA

Supplementary Table S5: Total viable counts of *F. nucleatum* (Fn) in saliva pellet samples of non-cancer subjects. Fourteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. Samples were analyzed on Crystal Violet Erythromycin (CVE) agar plates after anaerobic incubation for 72h at 37°C. N – Non-cancer sample.

Sample ID	Fn (CFU/mL)
N1	2.1×10^4
N2	2.2×10^4
N3	1.5×10^4
N4	2.2×10^4
N5	3.0×10^4
N6	1.3×10^4
N7	8.0×10^4
N8	2.5×10^4
N9	3.0×10^3
N10	2.3×10^3
N11	1.1×10^4
N12	6.0×10^4
N13	2.7×10^4
N14	7.3×10^4

Supplementary Table S6: Total viable counts of *F. nucleatum* (Fn) in saliva pellet samples of OSCC patients before and after bean gum + protegrin-1 treatment. Sixteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. All samples were treated with bean gum (166.66 mg/mL)+ protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment all samples were inoculated on Crystal Violet Erythromycin (CVE) agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). S – Saliva sample.

Sample ID	Fn (CFU/mL)	
	Untreated	Bean gum + protegrin-1
S1	8.0×10^3	0
S2	4.5×10^7	0
S3	4.4×10^5	0
S4	8.0×10^5	0
S5	1.8×10^6	0
S6	9.8×10^5	0
S7	5.0×10^7	0
S8	1.2×10^9	0
S9	1.7×10^8	0
S10	6.5×10^6	0
S11	9.5×10^7	0
S12	8.0×10^6	0
S13	1.2×10^7	0
S14	6.5×10^6	0
S15	2.4×10^5	0
S16	1.8×10^7	0

Supplementary Table S7: Total viable counts of *F. nucleatum* (Fn) in oral rinse samples of non-cancer subjects. Twenty-two oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were inoculated on Crystal Violet Erythromycin (CVE) agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. ORN – Oral rinse samples of non-cancer subjects.

Sample ID	Fn (CFU/mL)
ORN-1	3.0 x 10 ⁴
ORN-2	1.2 x 10 ⁴
ORN-3	1.0 x 10 ⁴
ORN-4	2.5 x 10 ⁴
ORN-5	3.0 x 10 ⁴
ORN-6	3.0 x 10 ⁶
ORN-7	1.8 x 10 ⁴
ORN-8	9.0 x 10 ³
ORN-9	2.0 x 10 ³
ORN-10	2.3x 10 ⁴
ORN-11	7.0x 10 ³
ORN-12	7.0 x 10 ³
ORN-13	1.4 x 10 ⁴
ORN-14	2.3x 10 ⁴
ORN-15	6.0 x 10 ³
ORN-16	5.0x 10 ³
ORN-17	7.0x 10 ³
ORN-18	4.0 x 10 ³
ORN-19	7.0x 10 ³
ORN-20	2.0x 10 ⁴
ORN-21	5.0 x 10 ³
ORN-22	1.0x 10 ⁴

Supplementary Table S8: Total viable counts of *F. nucleatum* (Fn) in oral rinse samples of OSCC patients before and after bean gum + protegrin-1 treatment. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were treated with bean gum (166.66 mg/mL) + protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment, all samples were inoculated on Crystal Violet Erythromycin (CVE) agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). O-Oral rinse sample. NA – Treatment was not performed on samples that did not show growth.

Sample ID	Fn (CFU/mL)	
	Untreated	Bean gum + protegrin-1
O1	0	0
O2	3.1 x 10 ⁶	0
O3	3.2 x 10 ⁶	0
O4	2.4 x 10 ⁶	0
O5	2.4 x 10 ⁵	0
O6	2.3 x 10 ⁶	0
O7	5.0 x 10 ⁴	0
O8	1.5 x 10 ⁵	0
O9	1.2 x 10 ⁶	0
O10	2.0 x 10 ⁴	0
O11	7.0 x 10 ⁴	0
O12	9.0 x 10 ⁴	0
O13	1.3 x 10 ⁸	0
O14	0	NA
O15	2.0 x 10 ⁵	0
O16	7.3 x 10 ⁵	0
O17	7.8 x 10 ⁵	0
O18	1.3 x 10 ⁶	0

O19	1.4×10^6	0
O20	2.5×10^6	0
O21	3.4×10^6	0
O22	0	0
O23	1.4×10^4	0
O24	0	NA
O25	2.3×10^5	0
O26	3.1×10^5	0
O27	9.0×10^4	0
O28	0	NA
O29	3.6×10^5	0
O30	0	0

Supplementary Table S9: Total viable counts of *Streptococcus spp.* in saliva pellet samples of non-cancer subjects. Fourteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. Samples were analyzed on Strep A agar plates after anaerobic incubation for 72h at 37°C. N – Non-cancer sample.

Sample ID	<i>Streptococcus spp.</i> (CFU/mL)
N1	4×10^3
N2	1.7×10^4
N3	3.0×10^4
N4	2.0×10^5
N5	1.0×10^5
N6	1.0×10^6
N7	1.1×10^6
N8	1.8×10^5
N9	2.3×10^7
N10	4.0×10^5
N11	2.1×10^5
N12	1.3×10^7
N13	5.3×10^7
N14	2.2×10^7

Supplementary Table S10: Total viable counts of *Streptococcus spp.* in saliva pellet samples of OSCC patients before and after bean gum + protegrin-1 treatment. Sixteen saliva samples provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. All samples were treated with bean gum (166.66 mg/mL+ protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment all samples were inoculated on CHROMagar™ StrepA agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). S – Saliva sample.

Sample ID	<i>Streptococcus spp.</i> (CFU/mL)	
	Untreated	Bean gum + protegrin-1
S1	6.0 x 10 ⁶	5.4 x 10 ⁵
S2	4.2 x 10 ⁹	4.2 x 10 ⁹
S3	3.5 x 10 ⁷	2.3 x 10 ⁵
S4	1.3 x 10 ⁷	1.0 x 10 ⁶
S5	1.4 x 10 ⁹	1.1 x 10 ⁸
S6	4.3 x 10 ⁷	3.1 x 10 ⁶
S7	3.3 x 10 ⁶	3.4 x 10 ³
S8	2.7 x 10 ⁹	3.1 x 10 ⁸
S9	2.7 x 10 ⁶	1.8 x 10 ⁵
S10	4.2 x 10 ⁹	3.8 x 10 ⁷
S11	6.2 x 10 ⁸	5.8 x 10 ⁷
S12	3.5 x 10 ⁸	2.7 x 10 ⁷
S13	5.3 x 10 ⁷	4.8 x 10 ⁷
S14	3.2 x 10 ⁷	2.8 x 10 ⁶
S15	2.7 x 10 ⁹	1.5 x 10 ⁸
S16	1.5 x 10 ⁸	1.0 x 10 ⁷

Supplementary Table S11: Total viable counts of *Streptococci* spp. in oral rinse samples of non-cancer subjects. Twenty two oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were inoculated on CHROMagar™ StrepA agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. ORN – Oral rinse sample of normal subjects.

Sample ID	<i>Streptococci</i> (CFU/mL)
ORN-1	3.0 x 10 ⁵
ORN-2	1.7 x 10 ⁷
ORN-3	1.5 x 10 ⁷
ORN-4	3.0 x 10 ⁶
ORN-5	1.1 x 10 ⁶
ORN-6	1.9 x 10 ⁶
ORN-7	5.0 x 10 ⁶
ORN-8	1.8 x 10 ⁶
ORN-9	3.0 x 10 ⁶
ORN-10	6.0 x 10 ⁵
ORN-11	3.5 x 10 ⁵
ORN-12	1.8 x 10 ⁴
ORN-13	1.6 x 10 ⁶
ORN-14	2.0 x 10 ⁷
ORN-15	2.5 x 10 ⁷
ORN-16	8.0 x 10 ⁶
ORN-17	4.5 x 10 ⁶
ORN-18	3.0 x 10 ⁷
ORN-19	4.5 x 10 ⁶
ORN-20	8.0 x 10 ⁶
ORN-21	9.0 x 10 ⁵
ORN-22	5.0 x 10 ⁶

Supplementary Table S12: Total viable counts of *Streptococci* spp. in oral rinse samples of non-cancer subjects. Twenty two oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were treated with bean gum (166.66 mg/mL) + protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment all samples were inoculated on CHROMagar™ StrepA agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). O – Oral rinse sample.

Sample ID	<i>Streptococci</i> (CFU/mL)	
	Untreated	Bean gum + protegrin-1
O1	5.2 x 10 ⁷	2.3 x 10 ⁶
O2	2.5 x 10 ⁸	1.7 x 10 ⁷
O3	4.0 x 10 ⁷	1.0 x 10 ⁶
O4	3.0 x 10 ⁷	2.0 x 10 ⁶
O5	4.0 x 10 ⁸	2.1 x 10 ⁷
O6	5.0 x 10 ⁷	4.0 x 10 ⁶
O7	2.3 x 10 ⁸	5.9 x 10 ⁷
O8	4.0 x 10 ⁷	6.2 x 10 ⁶
O9	5.2 x 10 ⁷	7.1 x 10 ⁶
O10	8.1 x 10 ⁸	6.3 x 10 ⁷
O11	7.5 x 10 ⁷	5.4 x 10 ⁶
O12	6.8 x 10 ⁷	8.1 x 10 ⁶
O13	5.9 x 10 ⁸	6.9 x 10 ⁶
O14	4.0 x 10 ⁷	2.6 x 10 ⁶
O15	6.4 x 10 ⁹	7.5 x 10 ⁸
O16	4.0 x 10 ⁸	3.0 x 10 ⁸
O17	5.2 x 10 ⁷	4.0 x 10 ⁶
O18	6.8 x 10 ⁷	7.1 x 10 ⁶
O19	5.1 x 10 ⁸	4.9 x 10 ⁷

O20	7.2×10^9	6.7×10^8
O21	8.5×10^7	6.9×10^7
O22	9.2×10^7	8.2×10^6
O23	4.0×10^9	5.5×10^8
O24	8.3×10^8	7.8×10^7
O25	7.6×10^7	6.4×10^6
O26	3.9×10^9	4.2×10^8
O27	6.7×10^8	5.5×10^7
O28	7.6×10^7	8.1×10^6
O29	5.9×10^8	3.8×10^7
O30	7.8×10^7	6.2×10^6

Supplementary Table S13: Total viable counts of *Candida albicans* in saliva pellet samples of non-cancer subjects. Fourteen non-cancer saliva samples were provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. All samples were plated on CHROMagar™ Candida agar plates and colony counts were noted after incubation for 72h at 37°C. N – Saliva samples of non-cancer subjects.

Sample ID	<i>Candida albicans</i> (CFU/mL)
N1	0
N2	0
N3	0
N4	0
N5	0
N6	0
N7	0
N8	0
N9	0
N10	0
N11	0
N12	0
N13	0
N14	0

Supplementary Table S14: Total viable counts of *Candida albicans* in saliva pellet samples of OSCC patients. Sixteen saliva samples were provided by Veterans Administration Greater Los Angeles Healthcare System, David Geffen School of Medicine, University of California at Los Angeles, CA 90073, USA. All samples were plated on CHROMagar™ Candida agar plates and colony counts were noted after incubation for 72h at 37°C. S – Saliva sample.

Sample ID	<i>Candida albicans</i> (CFU/mL)
S1	0
S2	0
S3	0
S4	7.0×10^3
S5	0
S6	0
S7	0
S8	3.1×10^4
S9	0
S10	0
S11	0
S12	0
S13	0
S14	0
S15	0
S16	0

Supplementary Table S15: Total viable counts of *Candida albicans* in oral rinse samples of non-cancer subjects. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were plated on CHROMagar™ Candida agar plates and colony counts were noted after incubation for 72h at 37°C. ORN – Oral rinse sample of non-cancer subjects.

Sample ID	<i>Candida albicans</i> (CFU/mL)
ORN1	0
ORN2	0
ORN3	0
ORN4	0
ORN5	0
ORN6	0
ORN7	0
ORN8	0
ORN9	0
ORN10	0
ORN11	0
ORN12	0
ORN13	0
ORN14	0
ORN15	0
ORN16	0
ORN17	0
ORN18	0
ORN19	0
ORN20	0
ORN21	0
ORN22	0

Supplementary Table S16: Total viable counts of *Candida albicans* in oral rinse samples of OSCC patients. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were plated on CHROMagar™ Candida agar plates and colony counts were noted after incubation for 72h at 37°C. O – Oral rinse sample.

Sample ID	<i>Candida albicans</i> (CFU/mL)
O1	0
O2	0
O3	0
O4	0
O5	0
O6	0
O7	0
O8	0
O9	0
O10	0
O11	0
O12	0
O13	5.0×10^4
O14	0
O15	0
O16	0
O17	0
O18	0
O19	0
O20	0
O21	0
O22	3.0×10^3
O23	0
O24	0
O25	0

O26	4.0×10^3
O27	0
O28	0
O29	0
O30	0

Supplementary Table S17: Total viable counts of *Leptotrichia buccalis* in oral rinse samples of non-cancer subjects. Twenty-two oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were inoculated on brucella agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). ORN-Oral rinse samples of non-cancer subjects.

Sample ID	<i>Leptotrichia buccalis</i> (CFU/mL)	
	Untreated	Bean gum + protegrin-1
ORN-1	2×10^3	0
ORN-2	2.5×10^4	0
ORN-3	2.3×10^4	0
ORN-4	1.5×10^4	0
ORN-5	5.0×10^5	0
ORN-6	1.6×10^4	0
ORN-7	1.8×10^5	0
ORN-8	1.8×10^3	0
ORN-9	2.4×10^3	0
ORN-10	3.5×10^3	0
ORN-11	1.9×10^4	0
ORN-12	2.0×10^3	0
ORN-13	1.2×10^3	0
ORN-14	2.0×10^5	NA
ORN-15	3.5×10^5	0
ORN-16	7×10^3	0
ORN-17	1.1×10^3	0
ORN-18	4×10^5	0
ORN-19	4×10^5	0
ORN-20	3.0×10^3	0
ORN-21	4.8×10^5	0
ORN-22	5.94×10^5	0

Supplementary Table S18: Total viable counts of *Leptotrichia buccalis* in oral rinse samples of OSCC patients before and after bean gum + protegrin-1 treatment. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were treated with bean gum (166.66 mg/mL) + protegrin-1 (100 µg/mL) for 1 h at 37°C. Phosphate buffered saline was used as negative control. After treatment all samples were inoculated on brucella agar plates and colony counts were noted after anaerobic incubation for 72h at 37°C. Bean gum extract used in these assays was prepared from the bean gum tablet stored for 33 months, 23 days at USP controlled temperature (20°C – 25°C). O-Oral rinse sample. NA – Treatment was not performed on samples that did not show growth.

Sample ID	<i>Leptotrichia buccalis</i> (CFU/mL)	
	Untreated	Bean gum + protegrin-1
O1	5.0 x 10 ⁵	0
O2	2.4 x 10 ³	0
O3	9.0 x 10 ³	0
O4	2.5 x 10 ⁴	0
O5	4.0 x 10 ⁵	0
O6	8.0 x 10 ³	0
O7	8.0 x 10 ³	0
O8	3.8 x 10 ⁵	0
O9	6.0 x 10 ⁴	0
O10	1.2 x 10 ⁴	0
O11	2.0 x 10 ⁴	0
O12	5.0 x 10 ⁵	0
O13	5.0 x 10 ⁵	0
O14	0	NA
O15	1.2 x 10 ⁵	0
O16	1.1 x 10 ⁴	0
O17	1.0 x 10 ⁴	0
O18	1.1 x 10 ⁴	0

O19	1.3×10^4	0
O20	3.0×10^4	0
O21	3.6×10^4	0
O22	5.8×10^4	0
O23	4.0×10^3	0
O24	5.0×10^3	0
O25	1.3×10^4	0
O26	3.58×10^4	0
O27	3.5×10^5	0
O28	4.0×10^3	0
O29	7.0×10^4	0
O30	0	NA

Supplementary Table S19: Total viable counts of *Campylobacter* spp. in oral rinse samples of non-cancer subjects. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were plated on CHROMagar™

Campylobacter agar plates and colony counts were noted after incubation for 72h at 37°C. ORN – Oral rinse samples of non-cancer subjects. NA – Treatment was not performed on samples that did not show growth.

Sample ID	<i>Campylobacter sputorum</i> (CFU/mL)
ORN-1	0
ORN-2	0
ORN-3	0
ORN-4	0
ORN-5	0
ORN-6	0
ORN-7	0
ORN-8	0
ORN-9	0
ORN-10	0
ORN-11	0
ORN-12	0
ORN-13	0
ORN-14	0
ORN-15	0
ORN-16	0
ORN-17	0
ORN-18	0
ORN-19	0
ORN-20	0
ORN-21	0
ORN-22	0

Supplementary Table S20: Total viable counts of *Campylobacter* spp. in oral rinse samples of OSCC patients. Thirty oral rinse samples were provided by Kansas University Medical Center, Kansas City, KS 66160, USA. All samples were plated on CHROMagar™ *Campylobacter* agar plates and colony counts were noted after incubation for 72h at 37°C. O – Oral rinse samples of OSCC patients.

Sample ID	<i>Campylobacter</i> spp. (CFU/mL)	Bean gum + protegrin-1
O1	0	NA
O2	0	
O3	0	
O4	0	
O5	0	
O6	0	
O7	0	
O8	0	
O9	0	
O10	0	
O11	0	
O12	0	
O13	0	
O14	0	
O15	0	
O16	0	
O17	0	
O18	0	
O19	0	
O20	0	
O21	0	
O22	0	
O23	0	
O24	0	
O25	0	
O26	0	
O27	0	
O28	0	
O29	0	
O30	0	