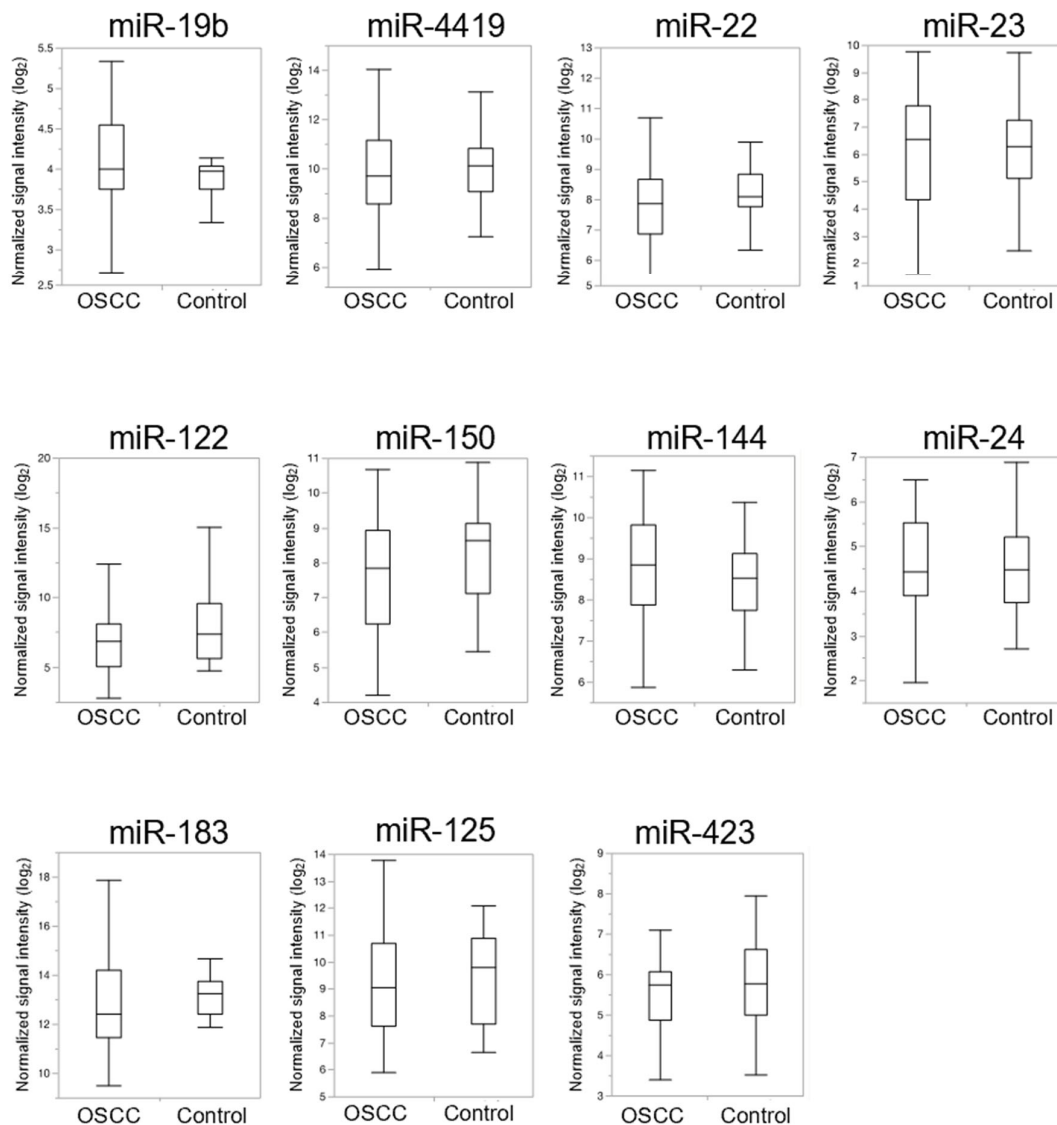


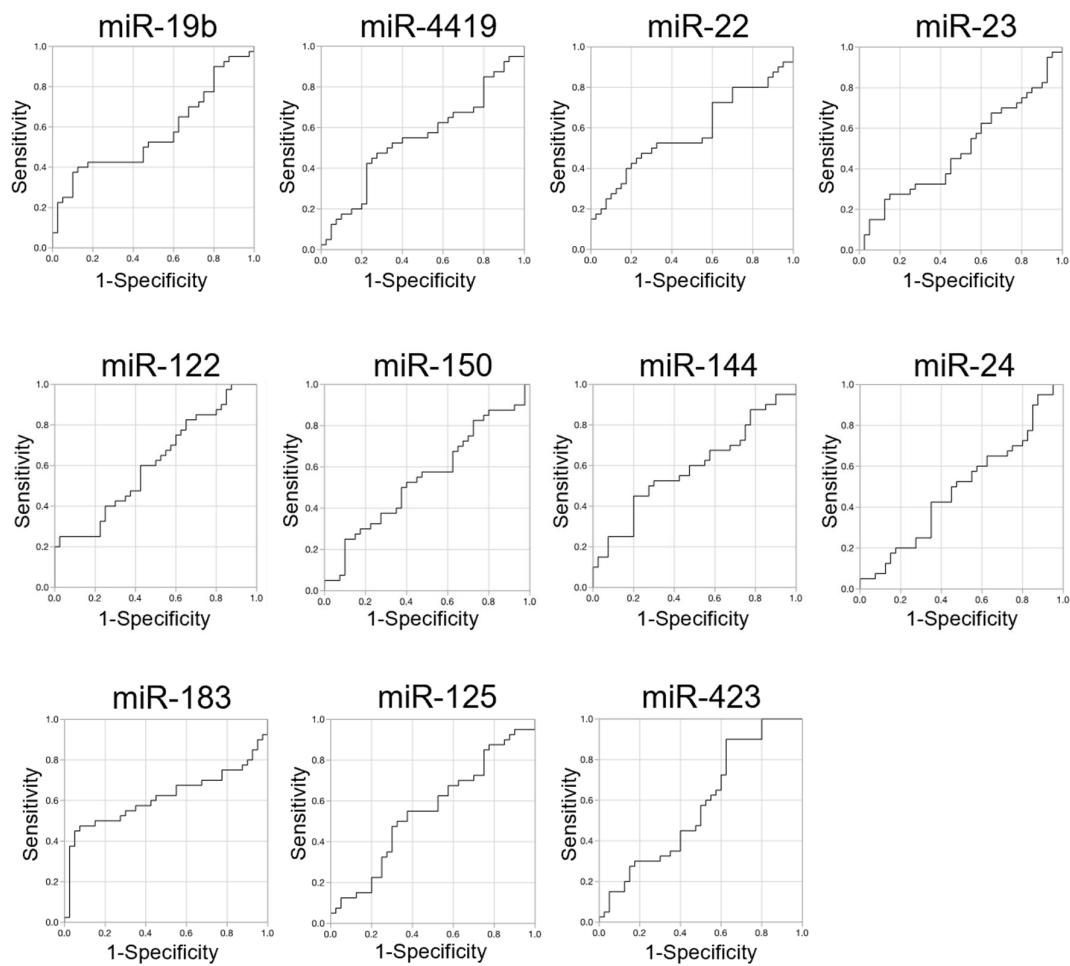
Supplementary Files

# Circulating microRNA Panel as a Potential Novel Biomarker for Oral Squamous Cell Carcinoma Diagnosis

Kodai Nakamura, Naomi Hiyake, Tomofumi Hamada, Seiya Yokoyama, Kazuki Mori, Kouta Yamashiro, Mahiro Beppu, Yasuaki Sagara, Yoshiaki Sagara and Tsuyoshi Sugiura



**Figure S1.** Comparison of normalized signal intensity levels of 11 microRNAs of oral squamous cell carcinoma (OSCC) patients and the control group. No significant difference was observed between these microRNAs.



**Figure S2.** Receiver operating characteristic analyses for 11 miRNAs that did not exhibit significant differences between oral squamous cell carcinoma patients and the control group.

**Table S1.** Upregulated (>2-fold) and downregulated (<0.5-fold) miRNAs selected for miRNA microarray analysis from among OSCC patients.

Upregulated miRNA	Fold Change of OSCC/Control	Downregulated miRNA	Fold Change of OSCC/Control
hsa-miR-144-3p	10.62	hsa-miR-4745-3p	0.36
hsa-miR-19a-3p	8.27	hsa-miR-5195-5p	0.38
hsa-miR-20a-5p	4.86	hsa-miR-7153-5p	0.38
hsa-miR-451a	4.42	hsa-miR-5100	0.40
hsa-miR-26b-5p	4.40	hsa-miR-622	0.40
hsa-miR-130a-3p	4.27	hsa-miR-6842-3p	0.40
hsa-miR-18b-5p	4.24	hsa-miR-4307	0.43
hsa-miR-106b-5p	4.00	hsa-miR-7107-3p	0.44
hsa-miR-19b-3p	3.99	hsa-miR-6718-5p	0.45
hsa-miR-21-5p	3.94	hsa-miR-4644	0.46
hsa-miR-126-5p	3.91	hsa-miR-3666	0.47
hsa-miR-423-5p	3.89	hsa-miR-1285-5p	0.47
hsa-miR-29c-3p	3.85	hsa-miR-4502	0.48
hsa-miR-208a-5p	3.80	hsa-miR-4784	0.48
hsa-miR-3194-3p	3.65	hsa-miR-766-5p	0.48
hsa-miR-16-5p	3.40	hsa-miR-7112-3p	0.48
hsa-let-7i-5p	3.36	hsa-miR-29c-5p	0.49
hsa-miR-30e-5p	3.33	hsa-miR-363-5p	0.50
hsa-miR-23a-3p	3.31	hsa-miR-6864-3p	0.51
hsa-miR-143-3p	3.20	hsa-miR-3976	0.51
hsa-miR-363-3p	3.20	hsa-miR-6809-5p	0.51
hsa-miR-324-5p	3.19	hsa-miR-6739-3p	0.52
hsa-miR-525-5p	3.17	hsa-miR-7-2-3p	0.53
hsa-miR-452-5p	3.15	hsa-miR-4419a	0.53
hsa-miR-142-5p	3.03	hsa-miR-1266-5p	0.53
hsa-miR-5093	2.91	hsa-miR-4470	0.54
hsa-miR-24-3p	2.85	hsa-miR-181a-2-3p	0.55
hsa-miR-20b-5p	2.75	hsa-miR-125b-2-3p	0.55
hsa-miR-4800-3p	2.75	hsa-miR-519e-5p	0.55
hsa-miR-4289	2.75	hsa-miR-3927-5p	0.55
hsa-miR-22-3p	2.74	hsa-miR-5684	0.55
hsa-miR-15a-5p	2.72	hsa-miR-550a-5p	0.55
hsa-miR-3170	2.64	hsa-miR-4717-5p	0.56
hsa-miR-591	2.63	hsa-miR-150-3p	0.56
hsa-miR-194-5p	2.53	hsa-miR-4317	0.56
hsa-miR-122-5p	2.51	hsa-miR-4446-5p	0.56
hsa-miR-151a-3p	2.49	hsa-miR-4421	0.56
hsa-let-7f-5p	2.48	hsa-miR-6074	0.57
hsa-miR-8080	2.48	hsa-miR-517a-3p	0.57
hsa-miR-205-5p	2.45	hsa-miR-566	0.57
hsa-miR-27a-3p	2.45		
hsa-miR-181d-5p	2.43		
hsa-miR-93-5p	2.40		
hsa-miR-3660	2.35		
hsa-miR-146b-5p	2.32		
hsa-miR-7515	2.32		
hsa-miR-126-3p	2.30		
hsa-miR-183-5p	2.30		

**Table S2.** List of miRNAs used for RT-PCR validation.

miRNA
hsa-miR-144-3p
hsa-miR-19a-3p
hsa-miR-20a-5p
hsa-miR-19b-3p
hsa-miR-423-5p
hsa-miR-23a-3p
hsa-miR-24-3p
hsa-miR-22-3p
hsa-miR-122-5p
hsa-miR-183-5p
hsa-miR-5100
hsa-miR-4419a
hsa-miR-125b-2-3p
hsa-miR-150-3p

**Table S3.** CT value of each miRNA in all samples (cancer and control group,  $n = 80$ ).

miRNA	CT Value				Shapiro-Wilk Test <i>p</i> Value	Normal Distribution
	Mean	Minimum	Maximum	SD		
miR-144-3p	34.90	30.86	38.08	1.68	0.0800	Yes
miR-19a-3p	31.13	26.57	35.30	1.72	0.0017	No
miR-20a-5p	31.33	27.67	35.70	1.67	0.0016	No
miR-19b-3p	30.28	25.96	33.83	1.64	0.0040	No
miR-423-5p	31.94	27.15	36.55	1.66	0.0990	Yes
miR-23a-3p	32.38	26.48	39.39	2.53	0.2620	Yes
miR-24-3p	30.78	27.03	35.33	1.63	0.0010	No
miR-22-3p	34.41	29.99	40.28	2.06	0.0006	No
miR-122-5p	33.95	28.92	44.66	3.63	<0.0001	No
miR-183-5p	39.50	33.50	47.48	1.05	<0.0001	No
miR-5100	31.34	25.97	35.79	1.71	0.0432	No
miR-4419a	36.27	33.37	39.94	1.38	0.1247	Yes
miR-125b-2-3p	35.59	29.95	40.26	2.05	0.2065	Yes
miR-150-3p	34.29	31.14	35.91	1.05	0.7484	Yes
miR-16-5p	26.28	21.49	30.39	1.80	0.0510	Yes

CT, threshold cycle; SD, standard deviation.