

Supporting information for

**Exploring the Causal Role of miR-941 in Chronic Rhinosinusitis: Insights from
Transcriptomics and Genomics**

Supplementary Table S1. Primers used for Quantitative Real-Time PCR analysis of
microRNAs.

Primer	Sequence
miR-941 stem-loop RT	5'-GTCGTATCCAGTGCAGGGTCCGAGGTATTTCGCACTG GATACGACGCACAT-3'
miR-941 PCR Forward	5'-AAGCTTACACCCGGCTGTGTG-3'
U6 stem-loop RT	5'-GTCGTATCCAGTGCAGGGTCCGAGGTATTTCGCACTG GATACGACAAAATATG-3'
U6 PCR Forward	5'-CTCGCTTCGGCAGCACA-3'
microRNA PCR universal Reverse	5'-ATCCAGTGCAGGGTCCGAGG-3'

Supplementary Table S2. The list of Antibody.

Antibody	Cat No.	Vendor	Application
p110 beta	ab151549	Abcam	WB,1:1000
p85 Alpha	60225-1-Ig	proteintech	WB,1:2000
P-AKT	4060	Cell Signaling	WB,1:1000
AKT	60203-2-Ig	proteintech	WB,1:5000
GADPH	10494-1-AP	proteintech	WB,1:10000

Supplementary Table S3. Summary of patient's characteristics.

Variable	Control	CRSwNP	P-value
Total of patient,n	13	28	
Age,yr mean±SD	46.69(14.13)	43.25(14.64)	0.480
Female,n(%)	4(30.77)	11(39.29)	0.734
BMI,kg/m ² mean±SD	23.75(2.25)	24.56(3.42)	0.368
Smoker,n(%)	2(15.38)	10(35.71)	0.276
SNOT-22 score, median(IQR)	-	27.3(13.1)	
Blood eosinophil(%)	1.33(0.75)	2.85(1.40)	<0.001
Methodology used			
MicroRNA array	6 [△]	7	
Age(mean±SD)	38.83(17.58)	35.14(13.58)	0.677
qRT-PCR	13 [△]	28	
Age(mean±SD)	46.69(14.13)	43.25(14.64)	0.480
WB	3	3	
Age(mean±SD)	55.67(4.93)	53.00(4.36)	0.522

BMI, Body Mass Index; SNOT-22, Sino-Nasal Outcome Test-22; qRT-PCR, Quantitative real-time PCR; WB, Western Blot.

[△]MicroRNA banking from nasal tissue was unsuccessful in one patient due to sample depletion. Consequently, the counts for plasma assays conducted were n=6 and n=13, while those for tissue assays were adjusted to n=5 and n=12, respectively.

Supplementary Table S4. Differentially expressed miRNAs in whole blood: CRSpatients versus controls($|\log_2(\text{Fold Change})|>0.58$, $p\text{-value}<0.05$)

#ID	Pvalue	FDR	log2FC	regulated
hsa-miR-941	3.19E-06	0.012	1.485	up
hsa-miR-200a-3p	1.28E-04	0.232	3.396	up
novel_miR_1978	1.64E-03	0.457	-4.172	down
novel_miR_383	9.08E-04	0.457	-4.101	down
novel_miR_209	1.25E-03	0.457	-2.785	down
hsa-miR-25-5p	8.24E-04	0.457	-1.792	down
hsa-miR-323b-3p	1.50E-03	0.457	-1.640	down
hsa-miR-6747-3p	4.61E-04	0.457	-1.257	down
hsa-miR-4732-3p	1.64E-03	0.457	-0.885	down
hsa-miR-151b	1.47E-03	0.457	0.923	up
novel_miR_1426	1.01E-03	0.457	1.283	up
hsa-miR-877-5p	7.64E-04	0.457	1.331	up
hsa-miR-30c-2-3p	5.54E-04	0.457	4.323	up
hsa-miR-3158-3p	2.23E-03	0.576	1.048	up
novel_miR_1960	4.55E-03	0.649	-1.780	down
novel_miR_688	5.26E-03	0.649	-1.633	down
hsa-miR-1343-3p	4.56E-03	0.649	-1.260	down
novel_miR_263	4.11E-03	0.649	-1.227	down
novel_miR_2080	3.53E-03	0.649	-1.170	down

novel_miR_2794	3.52E-03	0.649	-1.170	down
hsa-miR-627-3p	5.30E-03	0.649	-1.017	down
novel_miR_924	3.50E-03	0.649	-1.008	down
hsa-miR-6857-3p	4.90E-03	0.649	-0.973	down
hsa-miR-4742-3p	5.47E-03	0.649	-0.787	down
hsa-miR-3688-3p	3.80E-03	0.649	0.789	up
hsa-miR-151a-5p	4.18E-03	0.649	0.829	up
hsa-miR-29c-5p	3.41E-03	0.649	0.879	up
hsa-miR-143-3p	4.21E-03	0.649	0.947	up
hsa-miR-582-3p	5.45E-03	0.649	1.090	up
hsa-miR-200a-5p	5.49E-03	0.649	1.779	up
hsa-miR-6502-5p	5.57E-03	0.649	3.609	up
hsa-miR-1-3p	5.81E-03	0.656	1.674	up
hsa-miR-3121-3p	6.43E-03	0.704	-3.489	down
novel_miR_538	6.67E-03	0.709	-0.817	down
novel_miR_650	6.97E-03	0.720	-0.819	down
hsa-miR-3173-5p	7.43E-03	0.746	-0.784	down
hsa-miR-3620-3p	7.82E-03	0.764	-1.838	down
novel_miR_1897	8.69E-03	0.766	-2.895	down
novel_miR_773	8.63E-03	0.766	-0.854	down
hsa-miR-454-5p	8.31E-03	0.766	-0.737	down
novel_miR_1582	8.39E-03	0.766	0.958	up

hsa-miR-4512	1.02E-02	0.775	-2.964	down
hsa-miR-6508-3p	1.09E-02	0.775	-2.244	down
novel_miR_1022	1.03E-02	0.775	-2.161	down
novel_miR_1753	1.08E-02	0.775	-1.801	down
hsa-miR-1284	9.11E-03	0.775	-0.833	down
hsa-miR-328-3p	1.07E-02	0.775	-0.705	down
hsa-miR-18a-3p	9.60E-03	0.775	-0.690	down
hsa-miR-769-5p	1.09E-02	0.775	0.699	up
hsa-miR-148a-3p	1.01E-02	0.775	1.076	up
novel_miR_1401	9.27E-03	0.775	3.147	up
hsa-miR-6855-3p	1.13E-02	0.782	-1.095	down
hsa-miR-3190-3p	1.15E-02	0.782	1.180	up
hsa-miR-125a-5p	1.18E-02	0.791	-0.859	down
hsa-miR-433-3p	1.26E-02	0.825	-1.597	down
novel_miR_1639	1.47E-02	0.885	-1.799	down
novel_miR_2807	1.41E-02	0.885	-1.454	down
novel_miR_62	1.44E-02	0.885	-0.773	down
hsa-miR-3913-5p	1.49E-02	0.885	0.744	up
novel_miR_1434	1.42E-02	0.885	1.454	up
hsa-miR-942-3p	1.55E-02	0.904	0.957	up
hsa-miR-6804-3p	1.58E-02	0.908	-1.920	down
novel_miR_212	1.67E-02	0.913	-3.510	down

novel_miR_7	1.64E-02	0.913	-3.297	down
novel_miR_2829	1.66E-02	0.913	2.549	up
novel_miR_2739	1.72E-02	0.914	-2.769	down
hsa-miR-1976	1.70E-02	0.914	-0.923	down
novel_miR_2933	1.76E-02	0.923	-1.837	down
hsa-miR-3200-5p	1.83E-02	0.945	0.910	up
novel_miR_1799	1.95E-02	0.950	-1.706	down
novel_miR_2782	1.91E-02	0.950	-1.236	down
hsa-miR-4504	1.90E-02	0.950	0.975	up
hsa-miR-576-3p	1.93E-02	0.950	1.029	up
hsa-miR-548ar-3p	1.97E-02	0.950	2.535	up
novel_miR_1342	2.36E-02	0.951	-3.320	down
novel_miR_1206	2.21E-02	0.951	-2.623	down
novel_miR_2872	2.31E-02	0.951	-2.507	down
novel_miR_3	2.08E-02	0.951	-1.873	down
novel_miR_2245	2.26E-02	0.951	-1.403	down
hsa-miR-641	2.37E-02	0.951	-1.381	down
novel_miR_1934	2.23E-02	0.951	-0.620	down
novel_miR_1561	2.05E-02	0.951	0.804	up
hsa-miR-659-5p	2.27E-02	0.951	0.818	up
hsa-miR-5009-5p	2.10E-02	0.951	0.844	up
hsa-miR-10b-5p	2.26E-02	0.951	0.865	up

hsa-miR-551a	2.24E-02	0.951	1.217	up
hsa-miR-181b-3p	2.13E-02	0.951	1.480	up
hsa-miR-206	2.28E-02	0.951	2.527	up
novel_miR_2603	2.41E-02	0.955	-0.837	down
novel_miR_2947	2.47E-02	0.961	-1.334	down
novel_miR_2780	2.47E-02	0.961	3.883	up
novel_miR_560	2.53E-02	0.973	3.738	up
hsa-miR-942-5p	2.57E-02	0.977	-0.649	down
novel_miR_2388	2.65E-02	0.986	-1.196	down
hsa-miR-146b-3p	2.64E-02	0.986	0.847	up
novel_miR_2927	3.87E-02	1.000	-3.420	down
novel_miR_2569	4.22E-02	1.000	-3.343	down
novel_miR_1771	4.22E-02	1.000	-3.141	down
novel_miR_2008	3.09E-02	1.000	-3.120	down
novel_miR_2301	3.92E-02	1.000	-3.116	down
novel_miR_2525	2.92E-02	1.000	-3.098	down
novel_miR_1039	4.85E-02	1.000	-2.878	down
novel_miR_1284	4.83E-02	1.000	-2.878	down
novel_miR_1938	3.93E-02	1.000	-2.533	down
novel_miR_1604	4.06E-02	1.000	-2.468	down
novel_miR_2720	4.86E-02	1.000	-2.178	down
novel_miR_1884	4.36E-02	1.000	-2.160	down

hsa-miR-30b-3p	4.04E-02	1.000	-1.832	down
novel_miR_1149	4.61E-02	1.000	-1.715	down
hsa-miR-20b-3p	4.86E-02	1.000	-1.614	down
novel_miR_2529	3.00E-02	1.000	-1.422	down
novel_miR_1070	4.56E-02	1.000	-1.388	down
hsa-miR-7848-3p	4.19E-02	1.000	-1.138	down
novel_miR_913	3.42E-02	1.000	-1.073	down
novel_miR_2018	3.79E-02	1.000	-1.033	down
novel_miR_1548	3.79E-02	1.000	-1.033	down
hsa-miR-10527-5p	2.97E-02	1.000	-0.964	down
novel_miR_309	4.55E-02	1.000	-0.890	down
hsa-miR-937-3p	3.98E-02	1.000	-0.793	down
hsa-miR-4435	3.79E-02	1.000	-0.785	down
hsa-miR-1271-5p	2.94E-02	1.000	-0.769	down
novel_miR_1271	2.92E-02	1.000	-0.757	down
hsa-miR-3074-5p	3.37E-02	1.000	-0.653	down
novel_miR_1533	4.01E-02	1.000	0.743	up
novel_miR_559	4.03E-02	1.000	0.751	up
hsa-miR-181c-3p	4.59E-02	1.000	0.791	up
hsa-miR-4714-5p	3.24E-02	1.000	0.839	up
hsa-miR-378c	3.27E-02	1.000	0.880	up
hsa-miR-628-3p	4.27E-02	1.000	0.887	up

novel_miR_2774	4.56E-02	1.000	0.892	up
hsa-miR-375-3p	2.84E-02	1.000	1.018	up
novel_miR_2448	4.33E-02	1.000	1.053	up
hsa-miR-96-5p	4.18E-02	1.000	1.084	up
hsa-miR-499a-5p	4.99E-02	1.000	1.233	up
hsa-miR-589-3p	2.94E-02	1.000	1.297	up
hsa-miR-200b-3p	3.95E-02	1.000	1.359	up
hsa-miR-34c-5p	4.07E-02	1.000	1.452	up
hsa-miR-378f	3.28E-02	1.000	1.592	up
hsa-miR-3675-3p	3.97E-02	1.000	1.694	up
novel_miR_2975	4.21E-02	1.000	1.695	up
novel_miR_2214	3.97E-02	1.000	1.864	up
novel_miR_2918	4.04E-02	1.000	2.128	up
novel_miR_753	4.26E-02	1.000	2.140	up
hsa-miR-6755-3p	3.37E-02	1.000	2.497	up
hsa-miR-708-3p	3.00E-02	1.000	2.761	up
novel_miR_1464	3.06E-02	1.000	2.971	up
novel_miR_2978	3.06E-02	1.000	2.971	up
novel_miR_2127	3.06E-02	1.000	2.971	up
novel_miR_786	3.05E-02	1.000	2.971	up
novel_miR_2950	4.56E-02	1.000	3.525	up

log2FC, log2 Fold Change(CRSwNP vs.Control); FDR, False Discovery Rate

Supplementary Table S5. Differentially expressed miRNAs in nasal tissue: CRS patients versus controls($|\log_2(\text{Fold Change})|>0.58$, $p\text{-value}<0.05$)

#ID	Pvalue	FDR	log2FC	regulated
hsa-miR-582-3p	6.33E-06	0.020	-1.736	down
hsa-miR-338-3p	1.68E-05	0.024	-1.903	down
hsa-miR-21-3p	3.65E-05	0.024	1.843	up
novel_miR_2310	4.14E-05	0.024	-3.226	down
novel_miR_1319	4.87E-05	0.024	-3.177	down
hsa-miR-941	4.98E-05	0.024	1.581	up
hsa-miR-1249-3p	5.53E-05	0.024	-2.043	down
hsa-miR-582-5p	1.09E-04	0.042	-1.593	down
hsa-miR-338-5p	3.04E-04	0.104	-1.458	down
hsa-miR-223-3p	4.73E-04	0.134	2.536	up
hsa-miR-491-5p	4.78E-04	0.134	-1.282	down
hsa-miR-5571-3p	5.39E-04	0.139	2.027	up
novel_miR_2113	6.51E-04	0.155	-1.573	down
hsa-miR-375-3p	8.90E-04	0.178	-1.633	down
hsa-miR-1298-5p	9.11E-04	0.178	-3.036	down
hsa-miR-4423-3p	9.41E-04	0.178	4.025	up
hsa-miR-3611	1.05E-03	0.178	4.392	up
hsa-miR-187-3p	1.15E-03	0.178	-1.612	down
novel_miR_1879	1.16E-03	0.178	-1.337	down

novel_miR_2774	1.18E-03	0.178	2.640	up
novel_miR_1283	1.21E-03	0.178	-2.843	down
hsa-miR-548i	1.33E-03	0.187	3.227	up
novel_miR_819	1.44E-03	0.194	-1.221	down
novel_miR_1696	1.72E-03	0.222	-1.592	down
novel_miR_2385	1.83E-03	0.227	-2.332	down
hsa-miR-10a-3p	2.08E-03	0.247	2.830	up
novel_miR_38	2.21E-03	0.254	-4.333	down
hsa-miR-3150b-3p	2.37E-03	0.262	2.309	up
hsa-miR-147b-3p	2.46E-03	0.262	1.891	up
hsa-miR-10a-5p	2.72E-03	0.280	2.330	up
hsa-miR-4423-5p	2.89E-03	0.281	3.874	up
novel_miR_2258	2.99E-03	0.281	-2.425	down
hsa-miR-92b-5p	3.00E-03	0.281	1.879	up
novel_miR_1330	3.61E-03	0.329	-3.866	down
hsa-miR-1260b	3.87E-03	0.342	1.091	up
hsa-miR-142-5p	4.44E-03	0.381	1.299	up
hsa-miR-224-3p	4.78E-03	0.400	1.583	up
hsa-miR-1180-3p	5.78E-03	0.468	1.233	up
hsa-miR-223-5p	5.98E-03	0.468	1.447	up
hsa-miR-934	6.05E-03	0.468	1.511	up
hsa-miR-449a	6.57E-03	0.496	2.521	up

novel_miR_74	6.75E-03	0.497	-3.447	down
novel_miR_1518	7.63E-03	0.521	-2.984	down
novel_miR_1313	7.81E-03	0.521	5.909	up
novel_miR_1179	7.82E-03	0.521	-1.647	down
hsa-miR-148a-5p	7.94E-03	0.521	-1.009	down
hsa-miR-576-3p	8.03E-03	0.521	0.992	up
hsa-miR-642a-5p	8.20E-03	0.521	1.870	up
hsa-miR-129-5p	8.43E-03	0.521	-1.445	down
hsa-miR-372-3p	8.43E-03	0.521	1.953	up
hsa-miR-2355-3p	8.58E-03	0.521	1.451	up
novel_miR_2886	9.56E-03	0.569	2.454	up
hsa-miR-5091	1.05E-02	0.579	-1.494	down
novel_miR_1533	1.06E-02	0.579	2.678	up
hsa-miR-135a-5p	1.09E-02	0.579	1.914	up
hsa-miR-449b-5p	1.09E-02	0.579	2.533	up
hsa-miR-148a-3p	1.10E-02	0.579	-0.977	down
hsa-miR-1251-5p	1.10E-02	0.579	1.956	up
hsa-miR-4709-3p	1.10E-02	0.579	1.672	up
hsa-miR-135a-2-3p	1.14E-02	0.586	2.037	up
hsa-miR-449b-3p	1.16E-02	0.586	2.074	up
novel_miR_570	1.17E-02	0.586	-1.345	down
hsa-miR-892a	1.20E-02	0.588	-2.182	down

novel_miR_1154	1.23E-02	0.593	-3.375	down
novel_miR_2177	1.25E-02	0.593	-4.635	down
novel_miR_896	1.30E-02	0.603	-3.205	down
novel_miR_2422	1.31E-02	0.603	1.977	up
hsa-miR-378c	1.36E-02	0.611	0.798	up
novel_miR_2161	1.36E-02	0.611	-2.222	down
hsa-miR-142-3p	1.38E-02	0.611	1.235	up
novel_miR_2145	1.46E-02	0.635	-3.012	down
hsa-miR-196a-5p	1.53E-02	0.655	2.285	up
hsa-miR-2110	1.59E-02	0.655	1.098	up
hsa-miR-548az-5p	1.62E-02	0.655	-1.236	down
hsa-miR-221-3p	1.63E-02	0.655	0.849	up
novel_miR_1509	1.66E-02	0.655	-1.504	down
hsa-miR-3622b-3p	1.67E-02	0.655	-2.582	down
hsa-miR-431-5p	1.67E-02	0.655	1.772	up
hsa-miR-1185-1-3p	1.68E-02	0.655	1.407	up
hsa-miR-642a-3p	1.74E-02	0.655	1.728	up
hsa-miR-4679	1.75E-02	0.655	1.243	up
novel_miR_1738	1.76E-02	0.655	-4.102	down
hsa-miR-1185-2-3p	1.78E-02	0.655	1.714	up
hsa-miR-9-5p	1.79E-02	0.655	-0.862	down
novel_miR_2585	1.80E-02	0.655	-1.816	down

hsa-miR-4425	1.84E-02	0.661	3.824	up
novel_miR_1908	1.89E-02	0.664	5.136	up
hsa-miR-382-5p	1.89E-02	0.664	1.010	up
hsa-miR-664b-5p	1.99E-02	0.685	1.457	up
novel_miR_1457	2.01E-02	0.685	-0.950	down
novel_miR_1114	2.01E-02	0.685	-0.950	down
hsa-miR-4477b	2.04E-02	0.687	3.437	up
hsa-miR-210-3p	2.09E-02	0.694	0.858	up
hsa-miR-1301-3p	2.12E-02	0.694	0.786	up
novel_miR_93	2.13E-02	0.694	1.742	up
hsa-miR-450a-2-3p	2.21E-02	0.700	1.929	up
hsa-miR-92b-3p	2.22E-02	0.700	1.325	up
hsa-miR-592	2.26E-02	0.700	1.225	up
hsa-miR-381-3p	2.27E-02	0.700	1.012	up
hsa-miR-10b-3p	2.28E-02	0.700	0.955	up
novel_miR_2654	2.31E-02	0.700	-1.402	down
hsa-miR-9-3p	2.34E-02	0.700	-0.814	down
hsa-miR-16-1-3p	2.39E-02	0.700	1.042	up
novel_miR_1831	2.40E-02	0.700	-1.686	down
novel_miR_1176	2.41E-02	0.700	-2.457	down
hsa-miR-5588-5p	2.42E-02	0.700	3.658	up
hsa-miR-483-5p	2.42E-02	0.700	1.249	up

hsa-miR-190b-5p	2.44E-02	0.700	1.620	up
novel_miR_1691	2.46E-02	0.700	-3.646	down
hsa-miR-629-5p	2.50E-02	0.701	1.003	up
novel_miR_2660	2.51E-02	0.701	-1.783	down
hsa-miR-4491	2.65E-02	0.729	1.946	up
novel_miR_2253	2.66E-02	0.729	-2.291	down
hsa-miR-491-3p	2.70E-02	0.730	3.880	up
hsa-miR-181b-3p	2.72E-02	0.730	1.066	up
novel_miR_668	2.74E-02	0.730	-1.370	down
novel_miR_2495	2.78E-02	0.735	-1.878	down
novel_miR_2065	2.83E-02	0.741	-1.859	down
hsa-miR-203a-3p	2.88E-02	0.744	-1.013	down
novel_miR_476	2.90E-02	0.744	3.505	up
hsa-miR-21-5p	2.91E-02	0.744	0.918	up
hsa-miR-3944-5p	3.04E-02	0.756	-3.556	down
hsa-miR-34b-3p	3.06E-02	0.756	2.146	up
novel_miR_2201	3.06E-02	0.756	-2.060	down
hsa-miR-944	3.07E-02	0.756	0.916	up
hsa-miR-629-3p	3.10E-02	0.756	1.821	up
hsa-miR-346	3.17E-02	0.756	-1.343	down
hsa-miR-129-2-3p	3.18E-02	0.756	-2.161	down
novel_miR_654	3.19E-02	0.756	1.105	up

hsa-miR-222-5p	3.20E-02	0.756	1.281	up
hsa-miR-1306-5p	3.24E-02	0.756	-0.971	down
novel_miR_994	3.24E-02	0.756	1.376	up
hsa-miR-449c-5p	3.25E-02	0.756	2.346	up
novel_miR_1069	3.28E-02	0.757	-1.529	down
novel_miR_1334	3.33E-02	0.763	-0.937	down
novel_miR_2556	3.43E-02	0.769	-0.807	down
novel_miR_916	3.43E-02	0.769	-0.807	down
novel_miR_310	3.43E-02	0.769	-3.866	down
novel_miR_1538	3.48E-02	0.775	-2.267	down
novel_miR_483	3.58E-02	0.787	3.593	up
hsa-miR-520a-3p	3.67E-02	0.787	-2.942	down
novel_miR_880	3.68E-02	0.787	1.176	up
novel_miR_984	3.70E-02	0.787	-1.328	down
novel_miR_35	3.71E-02	0.787	-1.191	down
hsa-miR-548ay-3p	3.72E-02	0.787	2.166	up
novel_miR_381	3.72E-02	0.787	-1.630	down
novel_miR_1561	3.74E-02	0.787	0.818	up
hsa-miR-628-5p	3.78E-02	0.787	-0.803	down
novel_miR_1359	3.81E-02	0.787	4.097	up
novel_miR_1323	3.81E-02	0.787	-1.358	down
hsa-miR-654-5p	3.89E-02	0.797	0.882	up

novel_miR_2676	4.03E-02	0.820	3.519	up
novel_miR_2387	4.08E-02	0.825	-4.000	down
hsa-miR-345-3p	4.14E-02	0.825	-1.370	down
hsa-miR-5708	4.15E-02	0.825	-2.160	down
hsa-miR-211-5p	4.22E-02	0.825	-2.165	down
novel_miR_1337	4.22E-02	0.825	-4.074	down
hsa-miR-4528	4.23E-02	0.825	4.313	up
hsa-miR-146b-5p	4.24E-02	0.825	0.822	up
novel_miR_52	4.28E-02	0.828	-3.687	down
novel_miR_923	4.34E-02	0.828	-2.404	down
hsa-miR-6502-3p	4.35E-02	0.828	-3.610	down
hsa-miR-590-5p	4.36E-02	0.828	1.545	up
novel_miR_818	4.42E-02	0.833	-3.893	down
novel_miR_2627	4.54E-02	0.848	3.358	up
novel_miR_298	4.57E-02	0.848	4.216	up
hsa-miR-4524a-5p	4.57E-02	0.848	-3.662	down
novel_miR_2095	4.61E-02	0.849	-2.444	down
novel_miR_2466	4.76E-02	0.862	-0.881	down
hsa-miR-6503-3p	4.78E-02	0.862	1.083	up
novel_miR_1040	4.82E-02	0.862	3.655	up
hsa-miR-1273h-3p	4.84E-02	0.862	1.186	up
novel_miR_1048	4.85E-02	0.862	1.957	up

hsa-miR-548ba	4.86E-02	0.862	-1.624	down
hsa-miR-6508-3p	4.87E-02	0.862	-2.481	down
novel_miR_1945	4.95E-02	0.870	-2.139	down
novel_miR_2354	4.99E-02	0.870	1.107	up

log2FC, log2 Fold Change(CRSwNP vs.Control); FDR, False Discovery Rate.

Supplementary Table S6. Characteristics of genetic variants used to estimate the effect of miR-941 on Ebi and Finn chronic sinusitis

SNP	chr	pos	A1	A2	R ²	F	Mir-941			Ebi chronic sinusitis			Finn chronic sinusitis		
							beta	se	P-value	beta	se	P-value	beta	se	P-value
rs2427550	20	62547575	C	A	0.060	45.035	0.157	0.023	3.96E-11	0.041	0.016	1.11E-02	0.027	0.018	1.20E-01
rs3795156	20	62518729	A	G	0.030	22.038	0.093	0.020	3.22E-06	0.021	0.015	1.72E-01	0.024	0.017	1.49E-01
rs817374	20	62533435	T	G	0.058	43.977	0.157	0.024	6.85E-11	0.046	0.019	1.42E-02	0.027	0.018	1.29E-01

SNP, single nucleotide polymorphism; A1, effect allele; A2, other allele; se, standard error.

Supplementary Table S7. Characteristics of genetic variants used to estimate the effect of Ebi and Finn chronic sinusitis on miR-941

SNP	chr	pos	A1	A2	R ²	F	Ebi chronic sinusitis			Mir-941		
							beta	se	P-value	beta	se	P-value
rs11616662	13	41119466	G	A	5.20E-05	23.543	0.151	0.031	1.19E-06	0.006	0.033	8.60E-01
rs138167616	6	31027907	C	T	1.09E-04	49.446	0.288	0.041	2.07E-12	0.012	0.087	8.88E-01
rs1395381	7	123432100	T	C	5.43E-05	24.566	0.136	0.028	6.91E-07	0.017	0.043	6.89E-01
rs142776301	4	148700372	C	T	4.79E-05	21.670	0.147	0.032	3.22E-06	-0.046	0.059	4.37E-01
rs1444782	10	9062856	G	A	5.58E-05	25.271	0.074	0.015	5.12E-07	0.014	0.021	5.25E-01
rs1508116	2	41518455	T	C	5.34E-05	24.174	0.089	0.018	8.61E-07	0.010	0.025	6.76E-01
rs1837253	5	110401872	C	T	6.90E-05	31.224	0.083	0.015	2.32E-08	-0.015	0.024	5.39E-01
rs367863202	6	29758571	A	G	1.06E-04	48.184	0.285	0.041	3.78E-12	-0.043	0.057	4.47E-01
rs56014700	2	44937109	A	G	5.03E-05	22.767	0.317	0.067	1.80E-06	-0.044	0.070	5.34E-01
rs57900739	3	193012475	A	G	5.08E-05	22.971	0.067	0.014	1.72E-06	0.017	0.023	4.64E-01

rs67254554	22	41448734	G	A	5.29E-05	23.931	0.091	0.019	1.06E-06	0.110	0.033	9.24E-04
rs72699191	9	6211813	C	T	7.73E-05	34.973	0.137	0.023	3.26E-09	0.008	0.027	7.74E-01
rs73052255	3	190530830	C	T	4.72E-05	21.358	0.194	0.042	3.77E-06	0.059	0.031	6.23E-02
rs9519399	13	105245396	T	C	6.01E-05	27.184	0.076	0.015	1.81E-07	-0.013	0.023	5.59E-01
rs982273	11	8906862	T	G	5.12E-05	23.168	0.072	0.015	1.58E-06	-0.015	0.021	4.86E-01
							Finn chronic sinusitis			Mir-941		
SNP	chr	pos	A1	A2	R²	F	beta	se	P-value	beta	se	P-value
rs10185815	2	42973439	G	A	1.21E-04	21.342	0.089	0.019	3.72E-06	-0.012	0.023	6.06E-01
rs1110331	16	89774396	G	A	1.35E-04	23.808	0.085	0.017	1.03E-06	0.032	0.020	1.16E-01
rs1503625	4	127705493	G	A	1.34E-04	23.563	0.093	0.019	1.26E-06	0.027	0.024	2.71E-01
rs17624321	5	110430488	G	A	2.57E-04	45.373	0.120	0.018	1.76E-11	0.009	0.023	7.05E-01
rs2095044	9	6192796	T	C	3.04E-04	53.677	0.141	0.019	2.18E-13	0.018	0.023	4.47E-01
rs2691441	1	58002491	T	C	1.35E-04	23.885	0.095	0.020	1.04E-06	0.017	0.024	4.60E-01

rs281379	19	49209851	A	G	1.22E-04	21.481	0.077	0.017	3.41E-06	0.013	0.020	5.40E-01
rs3135041	6	31555657	G	A	1.24E-04	21.926	0.089	0.019	2.90E-06	0.018	0.023	4.34E-01
rs35425557	1	77874558	G	A	1.22E-04	21.512	0.097	0.021	3.59E-06	-0.033	0.029	2.48E-01
rs3758212	9	127069753	T	C	1.32E-04	23.266	0.082	0.017	1.30E-06	-0.025	0.022	2.59E-01
rs4305404	3	15554233	A	G	1.31E-04	23.163	0.121	0.025	1.51E-06	0.059	0.029	3.96E-02
rs838948	12	125178410	A	G	1.22E-04	21.567	0.171	0.037	3.36E-06	-0.036	0.052	4.90E-01
rs841339	1	95142843	G	A	1.28E-04	22.537	0.402	0.085	2.06E-06	-0.049	0.077	5.24E-01
rs9488660	6	97769261	A	G	1.26E-04	22.192	0.078	0.017	2.40E-06	0.024	0.021	2.50E-01
rs950018	12	87860883	G	A	1.21E-04	21.287	0.160	0.035	3.90E-06	0.079	0.052	1.25E-01

SNP, single nucleotide polymorphism; A1, effect allele; A2, other allele; se, standard error.

