

1 Identification of microRNAs in throat swab as the 2 biomarkers for diagnosis of influenza

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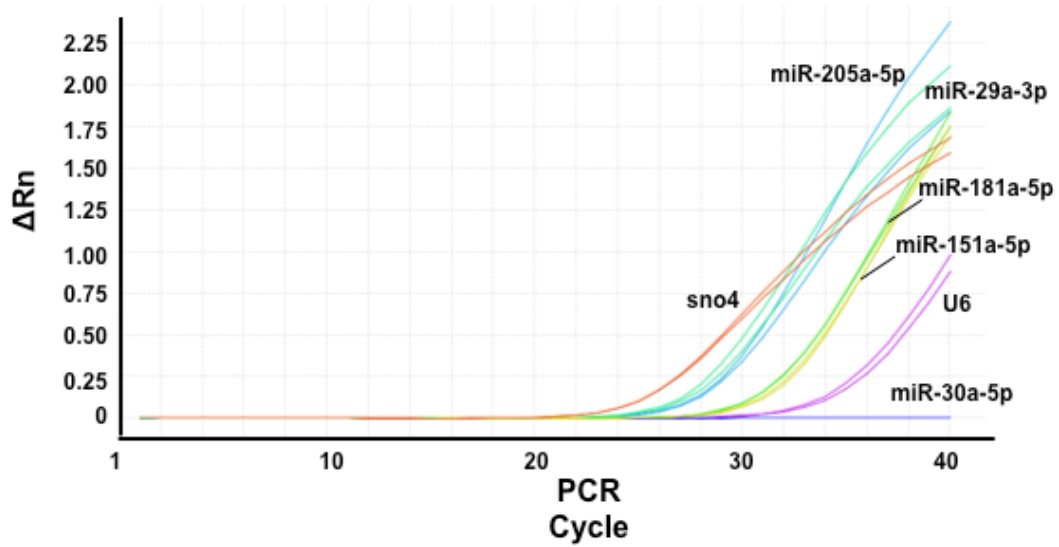
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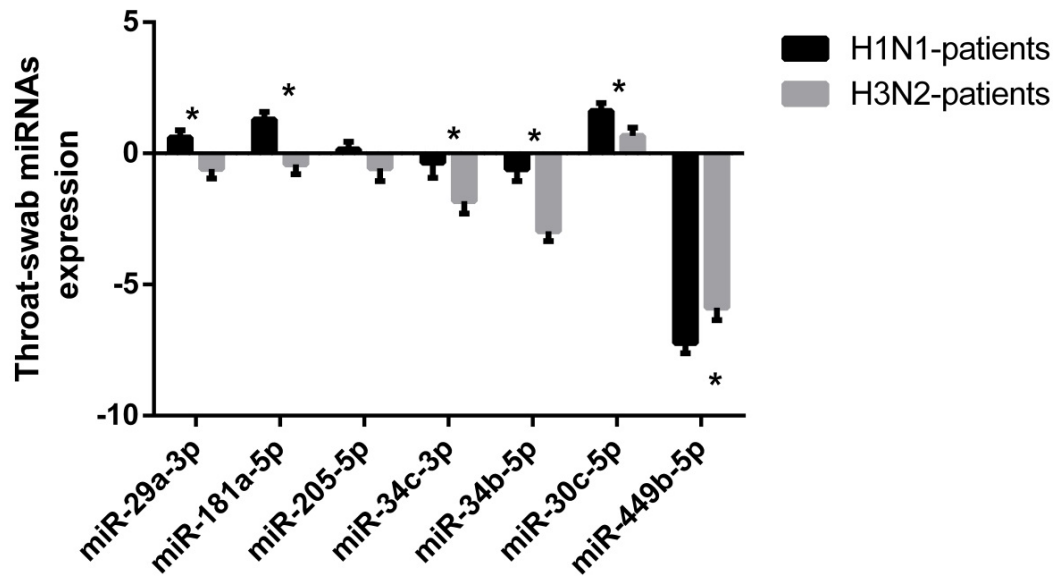
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31 **Figure S1.** The relative expression of miRNAs in throat swab samples. Quantitative RT-PCR was
 32 performed to test the relative expression of the miRNAs (miR-29a-3p, miR-30a-5p, miR-151a-5p,
 33 miR-181a-5p, miR-205-5p, sno44, U6) in throat swabs with 40 cycles of PCR amplification at
 34 95 °C for 15 sec, annealing/elongation at 60 °C for 1 min. The ΔRn value larger than 0.1
 35 indicated the presence of the miRNA.

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39 **Figure S2.** The relative expression difference of seven miRNAs (miR-29a-3p, miR-181a-5p,
 40 miR-205-5p, miR-34c-3p, miR-34b-5p, miR-30c-5p and miR-449b-5p) in the influenza group of
 41 H1N1 (n=25) and H3N2 (n=20). The relative expression was normalized to the U6 snRNA and
 42 results are mean ± SD. Statistical analyses were determined by one-way ANOVA-test, * $p < 0.05$.

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Table S1. The RNA yield and purity for individual samples

Sample number	A260/280	Conc. (ng/μL)	Sample number	A260/280	Conc. (ng/μL)
H1N1-1	1.74	13.3	B+-47	1.54	6.4
2	1.76	6	48	1.59	5.1
3	1.60	12	49	1.56	36
4	1.66	13	50	1.58	36
5	1.62	15.9	51	1.54	46
6	1.67	11.2	52	1.53	50
7	1.64	15.5	53	1.55	60
8	1.67	7.4	54	1.54	72
9	1.60	26.8	55	1.59	35.4
10	1.67	11.7	56	1.64	12.1
11	1.68	15	57	1.62	14.6
12	1.56	60.6	58	1.84	4.6
13	1.61	33.4	59	1.62	8.2
14	1.69	14	60	1.72	13.3
15	1.60	8.4	61	1.55	62.2
16	1.57	17.2	62	1.55	22.2
17 [#]	1.69	20.4	63	1.55	39.7
18 [#]	1.64	10	64	1.61	6.1
19 [#]	1.62	17.1	65	1.54	33
20 [#]	1.67	7.8	66	1.56	23.7
21 [#]	1.63	17.3	Control-67	1.67	6.1
22 [#]	1.63	8.2	68	1.64	18.4
23	1.55	4.5	69	1.64	38.8
24	1.62	14.2	70	1.82	8
25	1.68	23.1	71	1.61	17.1
H3N2-26	1.96	4	72	1.55	10.4
27	2.07	8.9	73	1.59	17.4
28	1.65	3	74	1.59	25.8
29	1.68	27.3	75	1.51	9
30	1.5	5.5	76	1.67	9.9
31	1.58	26.2	77	1.65	6.4
32	1.66	6.1	78	1.69	8
33	1.88	6.5	86	1.62	7.7
34	1.64	25.3	79	1.54	24.1
35	1.54	8.6	80	1.52	30.2
36	1.54	25.2	81	1.63	6.09

37	1.52	29.3	82	1.60	14.183
38	1.54	34.1	83	1.66	31.4
39	1.68	10	84	1.61	15.6
40	1.60	29	85	1.64	12
42	1.62	16.4	86	1.74	9.9
43	1.83	6			
44	1.68	7.5			
45	1.66	26			
46	1.56	27.8			

48 # Sample stored at -70 °C for one year.