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GREAF

Instant Skin Firming and Anti-Wrinkle Effect of The Prunus persica (peach) Gum Extract

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Introduction:

Skin aging is a complex biological process, which is produced by two basic processes: internal aging (affected by genetic factors, cell metabolism, hormones and metabolic processes) and due to long-term exposure to light, pollution, ionizing radiation, chemicals and toxins external aging. Research demonstrated that *Prunus persica* (peach) gum extract (PG) has anti-aging and moisturizing efficacy [1-2]. The effect of PG on skin firming, elasticity and wrinkle was verified in vivo. Results show that PG increases infant and lasting skin firming, skin elasticity and reduces skin wrinkle from 5 min to 8 h.

Materials & Methods:

Firming evaluation on human fingers

1%, 3%, and 5% FLEXANII (sodium polystyrene sulfonate) was firstly recorded to 1, 3, 5 points as a standard on 15 healthy subjects. After that, apply 5% and 10% PG to the other finger in the same way. Waiting for 5-10 mins, gently bend finger to feel the firming effect and score the results.

Detecting the skin elasticity on human cheekbone

6 healthy subjects were selected after cleaning the face and waiting for dry in the test environment. Marking the cheekbones on the face with a small label and applied formula contained 10% PG. After 5 mins of absorbing, the skin elasticity R2 was measured by MPA580, lasted to 30 min, 60 min, 4 h, 6 h, and 8 h. (R2=(e(a)-e(a+b))/e(a) = Ua/Uf)

Instant wrinkle removal test on human eye corners

The eye corners of 11 subjects were taken a picture with VC98 and VISIA. Applied formulas contained 2%, 5% and 10% PG on each corners. After completely dried for 5 min, took a photo again. And photo were taken as well as 30 min, 60 min, 4 h, 6 h and 8 h later respectively. The pictures were cut to the same position and the same size, then analyzed by its software to calculate the five-segment average R3 and the change rate of skin wrinkle parameter SEw.

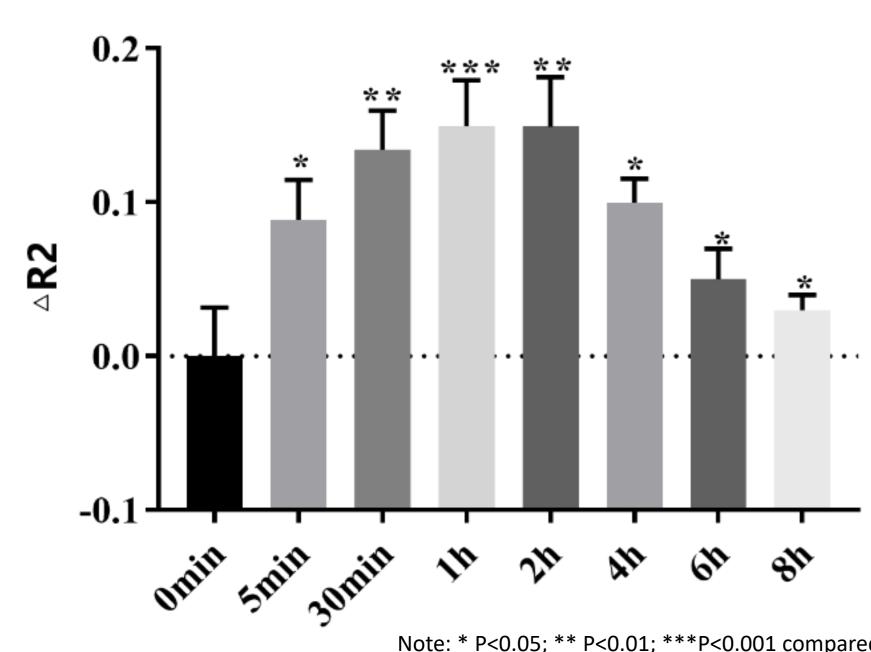
Results & Discussion:

PG improved skin firming

All subjects could feel a significant firmness when treated with 5% and 10% PG. The score reached to 3.4 out of 5.

_	Samples	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Score
	5% PG	2	1	2	1	1	1	1	2	2	1	1	2	3	1	1	1.47
_	10% PG	3	5	3	2	3	3	2	3	5	4	3	5	3	4	3	3.40
5 7 4 -	Note: ** P<0	ed to c	to control.				2% Immedeline PG (Only judge whether there is firmness feeling, no comparison)				5% Immedeline PG (Compared to 2%)			G	10% Immedeline PG (Compared to 5%)		
3 -						_											

PG improved skin elasticity



The skin elasticity significantly improved after PG treatment from 5 min to 8 h, reached to 16.9%, 35.9%, 7.5% improvement at 5 min, 2 h and 8 h respectively.

(12% think the effect is similar)

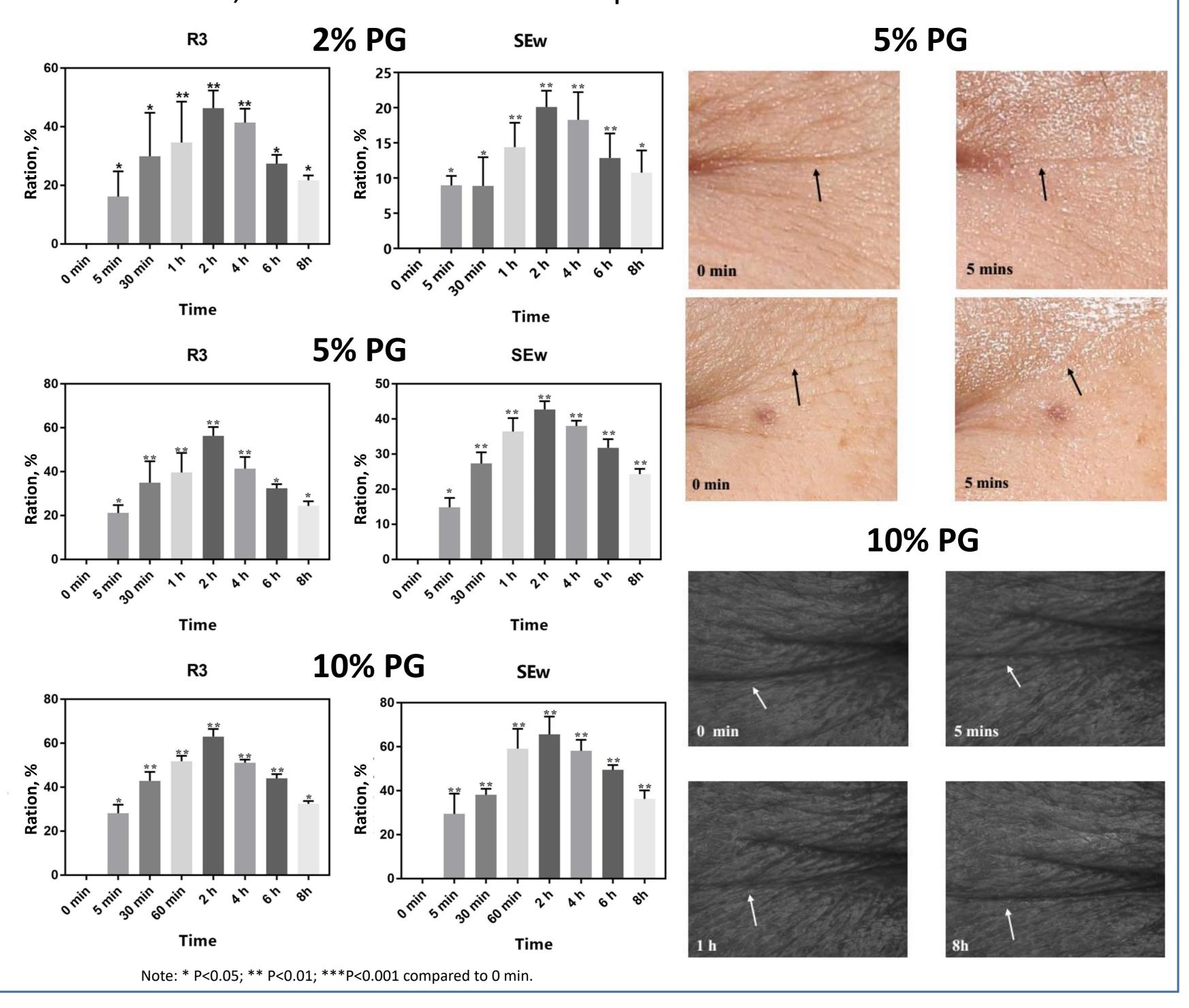
Note: * P<0.05; ** P<0.01; ***P<0.001 compared to 0 min

Conclusions:

- ✓ PG can work quickly and lasts for a long time to 8 h to increase skin firming, skin elasticity and reduce skin wrinkles.
- ✓ It act as a intergradient for anti-aging and skin firming, especially in products that claim immediate and 8 h duration against wrinkles.

PG significantly alleviated skin wrinkle on eye corners

2%, 5% and 10% PG can significantly improve wrinkles, and the higher the concentration, the more obvious the improvement effect.



References:

- 1. Bertin C, et al. A double-blind evaluation of the activity of an anti-cellulite product containing retinol, caffeine, and ruscogenine by a combination of several non-invasive methods. J Cosmet Sci, 2001; 52(4):199-210.
- 2. Gravitz L. Skin. Nature, 2018; 563(7732):S83.