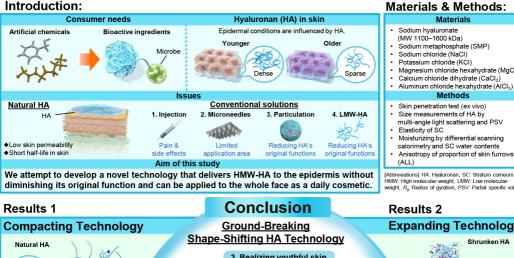


HIJEIDO

Shape-Shifting Technology of High-Molecular-Weight Hyaluronic Acid Realizing Youthful Skin

ID: 176

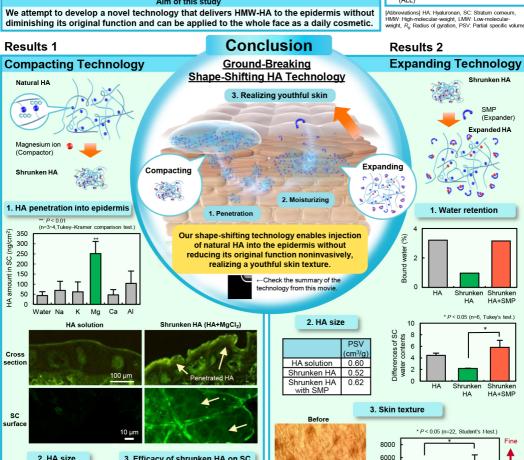
Fujii, Yoshimura, Mika Ph. D. 1); Okishima, Anna 1); Ichiwata, Shimizu, Hiroko 1); Onoue, Masatoshi Ph. D. 1); Oka, Takashi Ph. D. 1); Ashida, Yutaka Ph. D. 2); Hara, Eijiro 2) 1) Shiseido Co., Ltd., MIRAI Technology Institute, 2) Shiseido Co., Ltd., Brand Value R&D Institute



Materials & Methods:

- Magnesium chloride hexahydrate (MgCl₂)
- Calcium chloride dihydrate (CaCl2)

- Moisturizing by differential scanning calorimetry and SC water contents
- Anisotropy of proportion of skin furrows



2. HA size



- 3. Efficacy of shrunken HA on SC P < 0.05 (n=3, Tukey's test.) Elastic modulus 3 Pa) 108 2 MgCl₂ Shrunke
- ☐ The size of HA was reduced and its skin penetration into epidermis was drastically enhanced by the addition of MgC
- We also investigated the proportion of HA with MgCl₂ (shrunken HA) that penetrates the upper SC via the intercellular route.

CONGRESS, LONDO

☐ The shrunken HA improved the softness of SC

☐ The compacted volume and water retention capacity of shrunken HA were increased by adding SMP

Shrunker

HA+SMP

4000

2000

4 weeks after

- ☐ The shrunken HA with SMP retained a better ALL value than shrunken HA alone
- ☐ The continuous use of this technology can realize a youthful skin because it leads to a finer and more uniform skin texture by restoring HA's original water retention capacity.