

## Business development of fullerenes in life science applications

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Fullerene(C<sub>60</sub>) is an excellent anti-oxidant material[1][2], and that is why we, VitaminC60 BioResearch Corporation(VC<sub>60</sub>) started development of world-first cosmetic ingredient using Fullerene named “Radical Sponge(RS)”. After its launch in year 2004, RS rapidly captured interest of cosmetic industry as the effective ingredient for skincare topics such as brightening, and today, RS is used in more than 170 cosmetic brands and 300 kinds of cosmetic items.

Here, we will introduce you RS with evidences to show it is useful to prevent skin problems from oxidative stress as well as its safety data.[3] We will also explain that the market of RS is expanding beyond skincare to hair care and laser care applications.

Furthermore, the sister product of RS, “Lipo Fullerene”, purified oil containing fullerenes, targeting prevention of wrinkle formation is now available on the market since this April.

Finally, VC60 is committed to serve development of new applications for fullerenes in life science segment, and the cosmetic ingredient is just the first target. We will touch on our middle to long term targets to invite possible partners.



Fig. Examples of fullerene cosmetic products

- [1] H. Takada et al., *Biosci.Biotechnol.Biochem.* **70**, 3088 (2006).
- [2] L. Xhao et al., *Archives of Dermatological Research* **299**, 245 (2007).
- [3] T. Mori et al., *Toxicology* **255**, 48 (2006).