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Microneedle: The future of pharmaceutical and cosmeceutical delivery systems

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Microneedles are microscopic needles capable of delivering pharmaceutical compounds, proteins and even cosmetics into the skin in a minimally invasive manner. There are various types of microneedles like solid, hollow and dissolving microneedle. Each of these microneedles, based on the application purposes can be applied in different branches of drug or cosmetic compounds delivery. Through microneedles, achievement of a highly efficient delivery has become possible and we are expecting microneedles to replace the widely used hypodermic needles in near future. Rather than the drug delivery, microneedles can be applied in cosmetics field like anti-wrinkles, whitening or even anti-ageing. To develop a microneedle system that can fully replace hypodermic needles, we should focus on solving the limitations of current microneedle system like loading amount limitation, delivery time limitation, application limitation etc. In our laboratory at Yonsei University and at Juvic Inc., we have already solved the main limitations of traditional microneedle systems through various patented technologies.

Biography

Hyungil Jung has completed his PhD at Cornell University and his Post-doctoral at California Institute of Technology (Caltech). He has received various awards in Biotechnology field such as "Outstanding Contributions", "Best Contribution Award", "Excellence in Research Award", "The 31st Industry-academic Cooperation Award", "Best Technology Award", "Best Teaching Award" and many more because of his outstanding research ability in biotechnology field. He has also recently registered his company, Juvic Inc. to further expand his research and to introduce novel microneedle based pharmaceutical and cosmeceutical products to the market.

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