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Singapore-Korea partnership to apply AI in hair follicle regeneration research

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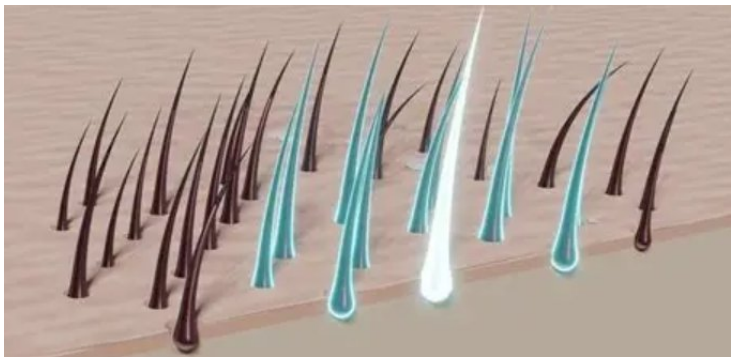
Partnership centers on Project Follica that aims to deliver a transformative impact



Singapore-based startup NYB.AI and Pnaseer Inc., a startup based in South Korea, have announced a strategic partnership to accelerate the discovery of compounds that promote hair follicle regeneration using artificial intelligence (AI).

The collaboration combines NYB.AI's AI-powered compound screening capabilities with Pnaseer's proprietary bio-nanoparticle drug delivery platform to enhance therapeutic efficacy.

The partnership centers on Project Follica, an initiative aimed at identifying and optimising both natural and synthetic compounds that stimulate hair growth.

NYB.AI will lead the development of advanced AI models to analyse extensive compound libraries, while Pnaseer will focus on formulating delivery systems that maximise the bioavailability and targeting precision of promising candidates.

NYB.AI's proprietary AI technology enables rapid prediction of compound-target interactions in hair biology, significantly accelerating early-stage discovery. Pnaseer's delivery platform ensures optimal formulation and distribution of actives to target tissues, paving the way for scientifically validated hair restoration solutions.

Project Follica aims to deliver a transformative impact through three key outcomes. First, it will build an AI-informed database of natural and synthetic compounds, mapped to critical biological pathways involved in hair follicle regeneration. Second, the collaboration will develop a scientifically validated, formulation-ready prototype for preclinical evaluation and future product development. Third, the project will create a scalable AI discovery framework tailored for dermatological and regenerative medicine applications.