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IIT Bombay and QR678® (via TECCRO®) partner for translational skin & hair

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To eliminate baldness in India by 2050 through science-led innovation

QR678®, through its research and development arm TECCRO®, has signed a strategic Memorandum of Understanding (MoU) with the Indian Institute of Technology Bombay (IIT Bombay), to develop next-generation skin treatments and regenerative healing therapies.

The two will collaborate on advanced dermatology, trichology, regenerative medicine, and translational clinical research.

The partnership marks a major milestone in QR678®'s long-term mission to eliminate baldness in India by 2050 through science-led, clinically validated, and scalable innovation. By combining deep engineering research with structured clinical translation, the collaboration aims to accelerate breakthrough solutions in hair regeneration and skin restoration.

IIT Bombay contributes extensive expertise in biomaterials, biosciences, biotechnology, bioinstrumentation, biomedical engineering, and data science. Complementing this, TECCRO® - The Esthetic Clinics Clinical Research Organisation - anchors the collaboration through its end-to-end clinical stewardship of the QR678® platform, encompassing multi-center clinical trial execution and comprehensive research documentation.

Notably, a core team of 11 PhD holders from QR678® Research Team will participate in the research programme alongside IIT Bombay faculty and experts, strengthening the scientific depth and interdisciplinary rigor of the initiative.

Under this MoU, TECCRO® and IIT Bombay will collaborate on joint national and international research grants, co-authored scientific publications, technology transfer, product commercialisation, and the development of IP-led startups. It will further enable TECCRO® to continue research on the QR678® platform on the IIT Bombay campus, leveraging shared access to advanced research infrastructure and clinical evaluation platforms.

A major focus of the collaboration will be the development of human in-vitro model systems, including 3D bio-printed skin and hair models. The partnership will also explore Organ-on-Chip technologies that replicate human biological environments on micro-engineered platforms.

Leveraging IIT Bombay's engineering strengths and TECCRO®'s clinical ecosystem, the collaboration will work on diagnostic devices, non-invasive imaging systems, microfluidic tools, nano-delivery platforms, and dermatology-focused medical technologies designed for clinical deployment.

Research will also focus on stem cell-derived therapies, exosomes, biomimetic peptides, and regenerative biologics for skin and hair restoration, with emphasis on safety, consistency, and long-term outcomes.