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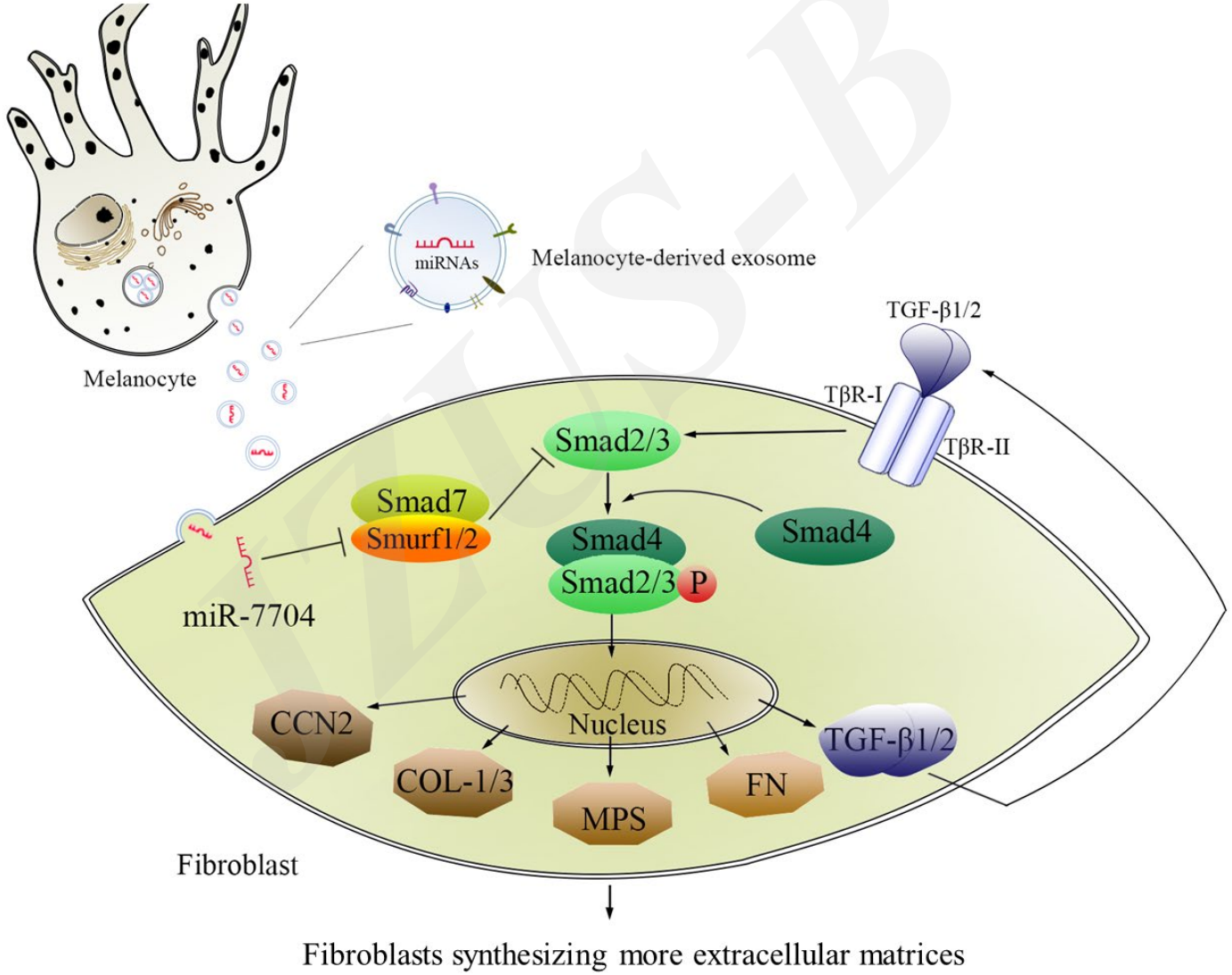
Exosomes released by melanocytes modulate fibroblasts to promote keloid formation: a pilot study

Key words: Exosome, melanocyte, fibroblast, keloid, miRNAs

Research Summary

This study demonstrated that melanocyte-derived exosomal miR-7704 promotes keloid formation by inhibiting Smurf1 in fibroblasts and activating the TGF-β/Smads pathway:



Innovation points

- **Highlight a novel mode of communication between melanocytes and fibroblasts and attribute the novel function for exosomes to the regulation of keloid formation**
- **Reveal the biological nature of keloids prevalent in dark-skinned people from the microenvironmental perspective**