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Retinal pigment epithelial cells as a therapeutic tool and target against retinopathies

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Highlights:

- RPE epithelial barrier features play a key part in rethinopathies
- Adult human RPE cultured cells can express neuronal markers
- HRPE cells customized for tracking processes related to retinal diseases
- SVCT2, GLUTs, MRPs, OR51E2 are targets in cell-based therapies and drug delivery
- RAR β is a topic for renewal of retinal dopaminergic precursors in RPE cells

Keywords: RPE; retinopathy; transdifferentiation; OR51E2; SVCT2; GLUT; MRPs; epithelial barrier.

Teaser: Engineering of retinal pigment epithelium cells for discovering new therapeutic tools against retinal diseases.

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