



UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER

Technology Transfer & Commercialization

Neonatal Retinal Pigment Epithelial (RPE) Cells (*Rat*)

Learn more!

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Research Tool

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Our Inventors

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Publications

"A transformed neonatal rat retinal pigment epithelial cell line: secreted protein analysis and fibroblast growth factor and receptor expression" *Curr Eye Res.* 16(2):116 (1997)

"Photoreceptor survival and development in culture" *Progress in Retinal and Eye Research* 15:127 (1996)

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Application

- Easy to handle, yet hardy rat retinal pigment epithelial (RPE) cells suitable for a wide range of cell culture studies and *in vivo* experiments.

Details

- RPE cells were isolated from the eyes of day-2 Long Evans rats. Cells were grown to confluence in a basal media supplemented with 10% fetal bovine serum.
- One well of cells at second passage became spontaneously transformed (without a virus), and with passaging, continued to express RPE-cell characteristics (specifically, cytokeratins.)
- These rat RPE cells are currently at passage 105 and have been used for:
 - collecting and characterizing RPE-secreted proteins
 - antibody production
 - determining the role of RPE proteins on retinal development
 - transplantation in rodent models of retinal disease

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