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Basic Study

Lipofuscins prepared by modification of photoreceptor cells *via* glycation or lipid peroxidation show the similar phototoxicity

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Abstract

AIM: To investigate the effect of two ways of lipofuscin production (lipid peroxidation and glycation) on lipofuscin fluorescence characteristics and phototoxicity and to compare them with the properties of natural lipofuscin.

METHODS: Model lipofuscins were prepared on the basis of bovine photoreceptor

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Studying melanin and lipofuscin in RPE cell culture models - NCBI

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Keywords: RPE, cell culture, melanin, melanosomes, lipofuscin, A2E ... age-related changes through a combination of photochemical modification and 3.2 Photoreceptor-derived autofluorescent granules ... probably consists of cross-linked products of lipid peroxidation, proteins and carbohydrates (Wassell et al., 1998).

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1995年8月11日 - Consumption of oxygen was measured at 4°C using a miniature oxygen electrode (Instech However, our data clearly show that in isolated pigment granules ... Since similar results have been observed for RPE cells, we may ... Two major mechanisms of lipid peroxidation should be considered: the free ...

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2008年4月16日 - The purified granules also exhibited oxidative protein **modifications**, ... The **phototoxicity** of A2E to RPE **cells** is well established; however, recent in vitro ... Three crude **lipofuscin** preparations were analyzed: **preparation 1**, from 65 in the **cell via** adducts like CEP and iso[4]LGE2 and protein cross-linking.

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Keywords: RPE, **cell** culture, melanin, melanosomes, **lipofuscin**, A2E ... significant age-related changes **through** a combination of photochemical **modification** ... their photoreactivity and potential for **phototoxic** damage to the RPE (Boulton et al., probably consists of cross-linked products of **lipid peroxidation**, proteins and ...

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orca.cf.ac.uk/54857/1/U585246.pdf

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be composed of oxidatively **modified lipids** and proteins. The substrates are 4.2.5.5.1 **Preparation** of in vitro **lipofuscin** formation samples for laser 5.2.9 Measurement of **lipofuscin-like** fluorescence of **cells** using flow cytometry, number of **photoreceptor** outer segments (POS) opposing each RPE **cell** remains at



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Studying melanin and lipofuscin in RPE cell culture models

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Protocols for studying **lipofuscin** accumulation in cultured RPE **cells**. significant age-related changes **through** a combination of photochemical **modification** that melanosomes can be **phototoxic** to primary human RPE **cells** and supported a probably consists of cross-linked products of **lipid peroxidation**, proteins and ...

Ageing of the retinal pigment epithelium: implications for ... - Springer

link.springer.com/article/10.1007/s00417-003-0812-8 - 翻译此页

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This review will discuss some of the **implications for using cells** from aged donors that in this **cell** the major substrate for **lipofuscin** appears to be **photoreceptor** outer ... The **same** group have also reported the presence of proteins **modified** by ... of **cells**, loss of lysosomal stability, a two-fold increase in the **lipid peroxidation**