

Identification of Human Amnion Proteome for Ophthalmic Remedy

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Amnion has been used for ophthalmic remedy by transplantation of amniotic membrane in damaged eyeball. In previous studies, proteins from cultured amnion cells and their characteristics were reported. Researches were made to identify the whole proteins of amniotic membrane because the whole amnion has been used for remedy. Total amnion, epithelial and mesenchymal cells were isolated from membrane by trypsin and collagenase digestion. Proteins were extracted from amnion, epithelial and mesenchymal cells and separated with 2-D PAGE. New proteins were detected by image analysis and identified with MALDI-TOF. New proteins could be found by enhanced 2-D PAGE technologies and their identification and characterization could be used for ophthalmic remedy.

References

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