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شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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بالرسالة صفحات

لم ترد بالأصل

B1.901

ALTERATION OF SOME BASEMENT MEMBRANE PROTEINS IN THE BASAL CELL CARCINOMA AND SQUAMOUS CELL CARCINOMA

THESIS

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LIST OF ABBREVIATIONS

AB	:	Antibody
BCC	:	Basal cell carcinoma
BM	:	Basement Membrane
CT	:	Connective tissue
DEJ	:	Dermo-epidermal junction
ECM	:	Extra-cellular matrix.
EGF	:	Epidermal growth factor
EM	:	Electron microscope
FN	:	Fibronectin.
H&E	:	Hematoxylin & Eosin
IL-I	:	Interleukin-I
LM	:	Laminin
PAS	:	Periodic acid schiff
PBS	:	Phosphate-buffered saline
SCC	:	Squamous cell carcinoma
SCC-A	:	Squamous cell carcinoma antigen

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INTRODUCTION

INTRODUCTION

The cutaneous basement membrane (BM) which separates the epithelial compartment from the underlying mesenchyme consists of a large number of matrix macromolecules whose precise interactions are necessary for the stability of the dermo-epidermal junction (DEJ) ⁽¹⁾.

The BM in more aggressive forms of BCC as well as in potentially metastasizing squamous cell carcinoma is often discontinuous and may lack some of the integral components of the basement membrane zone (BMZ) ⁽²⁾.

One of the integral components of all basement membrane is laminin. Laminin is a large glycoprotein which promotes the variety of biologic functions including cell attachment, spreading, proliferation and differentiation as well as neurite out growth ⁽³⁾.

Also fibronectin is a normal glycoprotein of the human body. It has three forms.

- 1- Plasma fibronectin.
- 2- Cellular fibronectin.
- 3- Cell surface fibronectin.

Fibronectin plays a key role in cell attachment, embryonic development and wound healing ⁽⁴⁾.

Basal cell carcinoma (BCC) is the most common neoplasm of the skin ⁽²⁾. Biologically. Although the (BCC) lesions are characterized

by relatively slow rate of growth, it is capable of significant local destruction, previous studies have centered around the basement membrane zone (BMZ) surrounding the tumour islands. In general, intact BM apparently containing the distinct macromolecular components present in normal cutaneous BMZ surrounding the tumour islands of nodular BCC⁽⁵⁾.

AIM OF THE WORK

AIM OF THE WORK

The aim of this work is to perform an immunohistochemical study to examine the expression of laminin and fibronectin in the basement membrane zone of normal human skin, basal and squamous cell carcinoma, to correlate the findings with growth rate and grade of differentiation.

Aim of the Work

REVIEW OF LITERATURE