ASSESSMENT OF CK17 AND EPCAM EXPRESSION IN DIFFERENT GRADES OF ORAL SQUAMOUS CELL CARCINOMA

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BY

SAFAA MOHAMED MOHAMED IBRAHIM BAZ

B.D.S
Faculty of Dentistry-Ain Shams University
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Faculty of Dentistry
Ain Shams University
2014

SUPERVISORS

DR. IMAN MOHAMED HELMY

Professor of Oral Pathology and

Chairman of Oral Pathology Department

Faculty of Dentistry

Ain Shams University

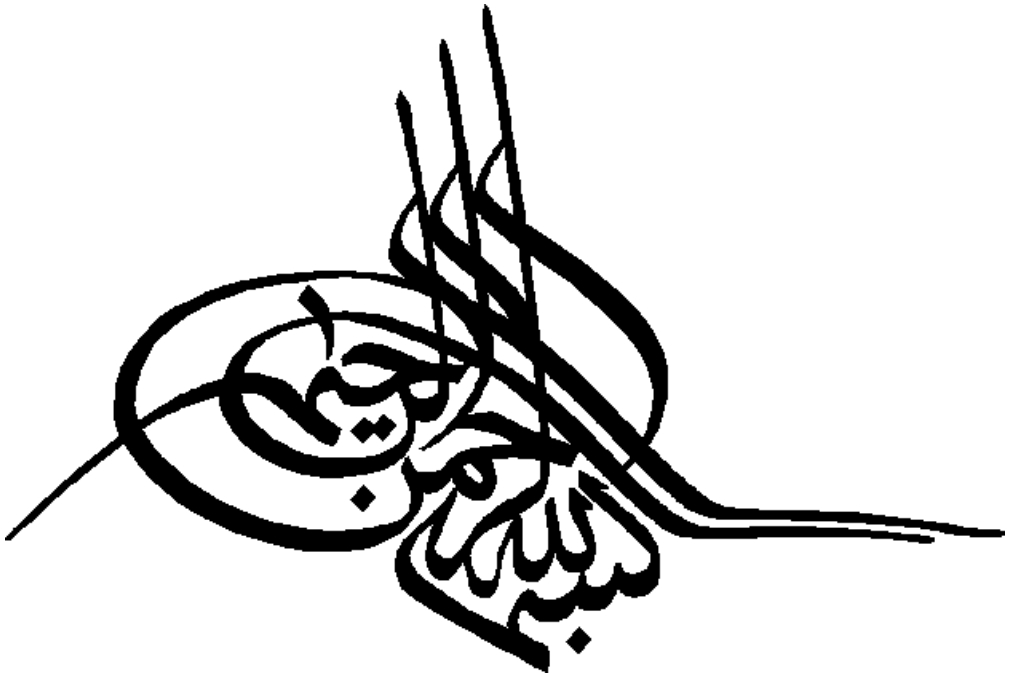
DR. MOHAMED HOSSAM ELDIN EL MALLAHY

Professor of Oral Pathology and

Vice-Dean for for Education And Student Affairs

Faculty of Dentistry

Ain Shams University



To My Great Parents

My Beloved Sisters

My Beloved Brother, Abdulrahman

My Wonderful Husband, Mostafa

Who Gave Me All The Possible Time, Support And Encouragement I Ever Needed

My Beautiful Son,

Yaseen

May All Your Dreams Come True

And Your Wishes Be Granted

To All Who Will Read This One Day And Find It Useful,

Thank You For Your Time And Trust

And God Bless You All

Safaa

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Table of Contents

List of Abbreviations

Akt: protein kinase B; "Ak" mouse bred "t" thymoma

ANOVA: Analysis Of Variance

BCC: Basal Cell Carcinoma

CAM: Cell Adhesion Molecule

CaP: Cancer Prostate

CIS: Carcinoma *in situ*

CK: Cytokeratin

CRPC: Castration-Resistant Prostate Cancer

CT: Chemotherapy

DAB: Diaminobenzidine

DPX: Distyrene, a Plasticizer and Xylene

E: End

E-FABP: Epidermal Fatty Acid-Binding Protein

EGF: Epidermal Growth Factor

EMT: Epithelial to Mesenchymal Transition

EpCAM: Epithelial Cell Adhesion Molecule (syn. GA733-2, TACSTD1, KSA, EGP-2, EGP34, EGP40, CD326, 17-1A, CO-17A, HEA125, MK-1, ESA, KS1/4)

EpEX: Extracellular domain of EpCAM

EpICD: Intracellular domain of EpCAM

FDA: Food and Drug Administration

FHL2: Four-and-a-Half LIM domains protein 2

H: Homologues

H&E: Hematoxylin and Eosin

Him: Helix initiating motif

HNSCC: Head and Neck Squamous Cell Carcinoma

Htm: Helix terminating motif

HUGO: Human Genome Organization

IF: Intermediate Filament

IFN-γ: Interferon-gamma

Ig-CAM: Immunoglobulin Cell Adhesion Molecule

IHC: Immunohistochemistry

ITIMs: Immunoreceptor Tyrosine-based Inhibitory Motifs

K: Keratin

Kbp: Kilobase Pair

kDa: KiloDalton

KFAP: Keratin Filament-Associated Protein

KRT: Keratin gene

L: Linker

LAIR-1: Leukocyte-Asssociated Immunoglobulin-like Receptor-1

Lef-1: Lymphoid enhancer-binding factor-1

Mod. diff.: Moderately differentiated

mTOR: Mammalian Target of Rapamycin

MW: Molecular Weight

NF: Nuclear Factor

NK: Natural Killer

OED: Oral Epithelial Dysplasia

OLK: Oral Leukoplakia

OSCC: Oral Squamous Cell Carcinoma

OSF: Oral Submucous Fibrosis

PBS: Phosphate Buffer Saline

pH: Potential Hydrogen

PI: Isoelectric Point

PI3K: Phosphatidylinositide 3-Kinases

Poorly diff.: Poorly differentiated

PS-2: Presenilin 2

RT: Radiotherapy

SCC: Squamous Cell Carcinoma

siRNA: Small interfering Ribonucleic Acid

SPSS: Statistical Package for Social Science

St: Stutter

TACE: Tumor Necrosis Factor alpha-Converting Enzyme

TIC: Tumor Initiating Cell

TNF-α: Tumor Necrosis Factor-alpha

TNF-R1: Tumor Necrosis Factor Receptor 1

TRADD: Tumor Necrosis Factor Receptor 1-Associated Death Domain protein

TY: Thyroglobulin

V: Variable

Well diff.: Well-differentiated

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