

Effect of Sesamol on Head and Neck Squamous Cell Carcinoma Cell Line In Vitro Study

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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TO MY GREAT FATHER

MY DEAR MOTHER

MY BELOVED HUSBAND

AND MY SWEET SONS

THANK YOU FOR YOUR SUPPORT

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MAY ALLAH BLESS YOU ALL ...

ESRAA

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List of Abbreviations

- AIDS:** Acquired Immunodeficiency Syndrome
- ANOVA:** Analysis of Variance
- Apaf-1:** Apoptosis Protease Activating Factor-1
- ATCC:** American Type Culture Collection
- Bak:** Bcl-2 Antagonist killer
- Bax:** Bcl-2 Associated X-protein
- Bcl-2:** B-Cell Lymphoma 2
- BH3:** Bcl-2 Homology
- Bid:** BH3 interacting domain death agonist
- cAMP:** Cyclic Adenosine Monophosphatase
- CD:** Cluster of Differentiation
- COX₂:** Cyclooxygenase 2
- DD:** Death Domain
- DMEM:** Dulbecco's Modified Eagle's Medium
- DNA:** Deoxyribonucleic Acid
- DOI:** Depth of Invasion
- EDTA:** Ethylene Diamine Tetraacetic Acid
- Fas:** First Apoptosis Signal
- FasL:** First Apoptosis Signal Ligand
- FBS:** Fetal Bovine Serum
- H&E:** Hematoxylin and Eosin
- HEp-2:** Human Epithelial type 2

HepG2: Human Hepatocellular Carcinoma G2 cells

HNSCC: Head and Neck Squamous Cell Carcinoma

HPV: Human Papillomavirus

IC50: 50% Inhibitory Concentration

IL-1 β : Interleukin-1 Beta

IL-6: Interleukin-6

JNK: c-Jun N-terminal Kinase

LPO: Lipid Peroxides

MMP: Mitochondrial Membrane Potential

MOMP: Mitochondrial Outer Membrane Permeability

MTT: Methyl Thiazol Tetrazolium

NAF: Nuclear Area Factor

NF- $\kappa\beta$: Nuclear Factor kappa Beta

OD: Optical Density

OSCC: Oral Squamous Cell Carcinoma

P53: 53-Kilodalton Protein

PBS: Phosphate Buffered Saline

PCC: Protein Carbonyls

PGE2: Prostaglandin E2

pH: Power of Hydrogen

ROS: Reactive Oxygen Species

RPM: Rotation per Minute

SCC: Squamous Cell Carcinoma

SDS: Sodium Dodecyl Sulfate

SPSS: Statistical Package for Social Science

TBE: Tris/ Borate/ EDTA

t-Bid: Truncated Bid

TNF: Tumor Necrosis Factor

TNFR: Tumor Necrosis Factor Receptor

TNM: Tumor, Lymph node and Metastasis

TRAIL: TNF Related Apoptosis Inducing Ligand

TRAILR: TNF Related Apoptosis Inducing Ligand Receptor

UVB: Ultraviolet B Radiation

WHO: World Health Organization

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