

**ROLE OF CANCER STEM CELLS IN
ORAL SQUAMOUS CELL CARCINOMA:
CORRELATION WITH PROLIFERATION
AND TUMOR GRADE**

Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

" الْحَمْدُ لِلَّهِ الَّذِي هَدَانَا لِهَذَا وَمَا كُنَّا لِنَهْتَدِيَ
لَوْلَا أَنْ هَدَانَا اللَّهُ "

صَدَقَ اللَّهُ الْعَظِيمُ

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List of Abbreviations

AB: Antibody

ABCB5: ATP-binding cassette B5

AEC:

ALDH: Aldehyde dehydrogenase

AML: Acute Myeloid Leukemia

ANOVA: Analysis Of Variance

AP: Alkaline phosphatase

ASC: Adult stem cell

CAF: Cancer-associated fibroblast

CD: Cluster of Differentiation

cr-CSC: chemo-radioresistant cancer stem cell

CSC: cancer stem cell

CXCR4:

DAB: Diamino Benzidine

DNA: Deoxy-ribonucleic acid

EMT: Epithelial-mesenchymal transition

EndMT: Endothelial-mesenchymal transition

ESC: Embryonic stem cell

G1 phase: gap1 phase of cell cycle

G2 phase: gap2 phase of cell cycle

HNSCC: Head and neck squamous cell carcinoma

HRP: Horse Raddish Protein

HSC: Hematopeitic stem cell

IgG: Immunoglobulin G

IHC:Immunohistochemistry

IMD: Immunodeficient

Ki-67: Kiel-67

LSC: Leukemic stem cell

M phase: mitosis phase phase of cell cycle

mCSC: migratory or metastatic cancer stem cell

MD: Moderately-differentiated

MET: Mesenchymal-epithelial transition

MIB: Molecular Immunology Borstel

MKI67

mRNA

MSC: mesenchymal stem cells

NADP:

OSCC: oral squamous cell carcinomas

PBS: Phosphate buffered saline

pCSC: primitive cancer stem cell

PD: Poorly-differentiated

pre-CSC: pre-cancerous stem cell

pri-CSC:primary cancer stem cell

RGB imaging: red-green-blue imaging system

RNA: ribonucleic acid

S phase: DNA synthesis phase of cell cycle

sCSC: stationary cancer stem cell

SD: Standard deviation

SP: Side population

SPSS: Statistical Package for Social Science

TA: Transient amplifying cell

TBS: Tris-buffered saline

TGF- β : transforming growth factor- β

T-IC: Tumor-initiating cell

T-PC: Tumor-propagating cell

VEGFR: vascular endothelial growth factor receptor

WD: Well-differentiated

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