

Immunohistochemical Expression of OCT4 and N-cadherin In Common Salivary Gland Tumors

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ﴾

صَلَّى الْعَظِيمِ

Dedication

This work is dedicated to

The spirit of my father and my exceptionally kind mother

*My husband Ismail who being my inspiration to succeed and
motivation to continue.*

To my son, Ibrahim, the best of my life.

To my brothers and my sisters for their love and support.

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List of Abbreviations

ABCG2: ATP-Binding Cassette Sub-family G Member 2

ACC: Acinic Cell Carcinoma

ADCC: Adenoid Cystic Carcinoma

AFIP: Armed Forces Institute of Pathology

AREG: Amphiregulin

BMI-1: Poly Comb Complex Protein

°C: Degree Celsius

Cat: Catalog

CA-x-PA: Carcinoma ex-Pleomorphic Adenoma

CD24: Cluster of Differentiation 24

CNS: Central Nervous System

CRTC1: CREB Regulated Transcriptional Co-Activator-1

CSCs: Cancer Stem Cells

DAB: Diaminobenzidine

DPX: Dibutylphthalate Polystyrene Xylene

EC: Embryonic Carcinoma

ECCs: Embryonic Carcinoma Cells

EGFR: Epidermal Growth Factor Receptor

EMT: Epithelial Mesenchymal Transition

ESCs: Embryonic Stem Cells

H&E: Hematoxylin and Eosin

HCAM: Homing Cell Adhesion Molecule

ICM: Inner Cell Mass

LG: Low-grade

LIF: Leukemia Inhibitory Factor

MAF: Mean Area Fraction

MAML2: Mammalian Master- Mind Like2

MaSG: Major Salivary Gland

MDR1: Multidrug Resistance Transporter 1

MEC: Mucoepidermoid Carcinoma

MECT1: Mucoepidermoid Carcinoma Translocated-1

MiSG: Minor Salivary Gland

MW: Molecular Weight

No: Number

NOS: not otherwise specified

NPC: Nasopharyngeal Carcinoma

OCT4: Octamer-binding Transcription Factor-4

PA: Pleomorphic Adenoma

PBS: Phosphate Buffered Saline

PCNA: Proliferating Cell Nuclear Antigen

PGCs: Primordial Germ Cells

PH: Power of Hydrogen

PLAG1: Pleomorphic Adenoma Gene-1

PNI: Perineural Invasion

POU: Pit-Oct-Unc

POU5F1: POU Domain, Class-5, Transcription Factor-1

RA: Retinoic Acid

RT: Radiotherapy

RT-PCR: Reverse Transcription Polymerase Chain Reaction

SOX2: Sex Determining Region Y

SD: Standard Deviation

t: Translocation

TNM: Tumor Size Lymph Node Metastasis

UV: Ultra Violet

WHO: World Health Organization

WT: Warthin's tumor

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