

1. Függelék- Rövidítések jegyzéke

ABC transzporter - ATP kötő kazetta

transzporterek

BAX - Bcl-2-asszociált X protein

BSA - szarvasmarha szérum albumin

Casp3 - kaszpáz-3

CAT - kataláz

cDNS - komplementer DNS

Cr(VI) - hexavalens króm

Ct - koncentráció küszöbérték (threshold)

Cu/Zn-SOD - réz/cink tartalmú szuperoxid-dizmutáz

D - dohányos

DEPC - dietil-pirokarbonát

DMT1 - divalens fém transzporter 1

dNTP - dezoxiribonukleotid-trifoszfát

EC-SOD - extracelluláris szuperoxid-dizmutáz

eNOS - endoteliális NO-szintáz

GPx - glutation-peroxidáz

GR - glutation – reduktáz

GSH - redukált glutation

GSSG - oxidált glutation

H₂O₂ - hidrogén-peroxid

HIV/AIDS - emberi immunhiányt előidéző vírus/ szerzett immunhiányos tünet együttes

HO - hemoxigenáz

IARC - International Agency for Research Cancer

ICP-AES - indukzív csatolású plazma atomemissziós spektrometria

LP - lipid peroxidáció

MDA - malondialdehid

Mn-SOD - mangán tartalmú szuperoxid-dizmutáz

MT - metallothionein

mt1, mt1 - metallothionein-1 és

metallothionein-2 gének

NO - nitrogén-monoxid

NO₂ - nitrogén-dioxid

NOS - nitrogén-monoxid szintáz

O₂^{•-} -szuperoxid anion

OCT - Optimal Cutting Temperature medium

OH• - hidroxilgyökök

ONOO⁻ - peroxinitrit

PaO₂ - oxigén parciális nyomása

PB - foszfát puffer

PBS - foszfát pufferelt sóoldat

PCR - polimeráz láncreakció

PFA - paraformaldehid

PMN sejtek - polimorfonukleáris

Q/QH₂ - kinon/hidrokinon komplex

qPCR - kvantitatív polimeráz láncreakció

R• - szerves gyökök

RO• - alkoxil gyökök

RONO - alkil-nitrit

RONO₂ - alkil-nitrát

ROO• - peroxil gyökök

ROS - reaktív oxigén fajták

RPM - percenkénti fordulatszám

RT - reverz transzkripció

SOD - szuperoxid-dizmutáz

6. Köszönetnyilvánítás

Első sorban köszönöm témavezetőmnek, **Dr. Hermes Edit**, egyetemi docensnek és a Stresszbiokémiai kutatócsoport tagjainak, **Dugmonits Krisztina Nikoletta** és **Lázár Renáta** Ph. D. hallgatóknak, valamint **Dr. Ferencz Ágnesnek** és **Jancsó Zsanettnek** a mérhetetlenül sok segítséget, iránymutatást és biztatást, amelyek ezen dolgozat létrejöttéhez szükségesek voltak.

Szeretném megköszönni **Dr. Boros Imre** professzor úrnak, hogy helyet biztosított tanszékén a munkánk elvégzéséhez.

Ezen felül köszönöm **Dr. Bódi Nikolettnek** és **Dr. Talapka Petrának**, a SZTE – TTIK Élettani, Szervezettani és Idegtudományi Tanszékéről a metszetek elkészítésével és az immunhisztokémiai vizsgálatokkal kapcsolatos szakmai és gyakorlati segítségüket.

Továbbá szeretném megköszönni **Dr. Orvos Hajnalkának** és a SZTE Szülészeti – és Nőgyógyászati Klinika munkatársainak, akik a mintákat rendelkezésünkre bocsátották.

Szeretném megköszönni továbbá a **Dr. Dobó Endrének** és **Lakatos Tiborné Katicának** az SZTE – ÁOK Anatómiai, Szövet – és Fejlődéstani Intézet munkatársainak a metszet készítésben nyújtott segítségüket.

7. Irodalomjegyzék

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8. Tételes szerzői hozzájárulás

Alulírott Zahorán Szabolcs a dolgozatban leírt munkafolyamatok közül részt vettem a:

1. Minták előkészítésében és preparálásában
2. A születési paraméterek kiértékelésében
3. A metszetek elkészítésében
4. A metszetek festésében és mikroszkópiás vizsgálatában (a dolgozatban szereplő felvételek saját készítésűek)
5. Az immunhisztokémiai vizsgálatok elvégzésében
6. A mikroszkópos képek szoftveres kiértékelésében
7. Az RNS preparálásában, előkészítésében és az azt követő PCR reakciók összemérésében és kiértékelésében

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aláírás

Szeged, 2014. november 13.