THE EFFECTS OF TANNIC ACID AND ZINC OXIDE ON EPITHELIAL-MESENCHYMAL TRANSITION (EMT) IN WOUND HEALING

AYSUN SARIÇETİN

0000-0002-8290-8201
BURSA ULUDAG UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCEINCES
VETERINARY PATHOLOGY DEPARTMENT
PhD PROGRAM

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- ✓ Epithelial-Mesenchymal Transition (EMT)
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- ✓ Tannic Acid
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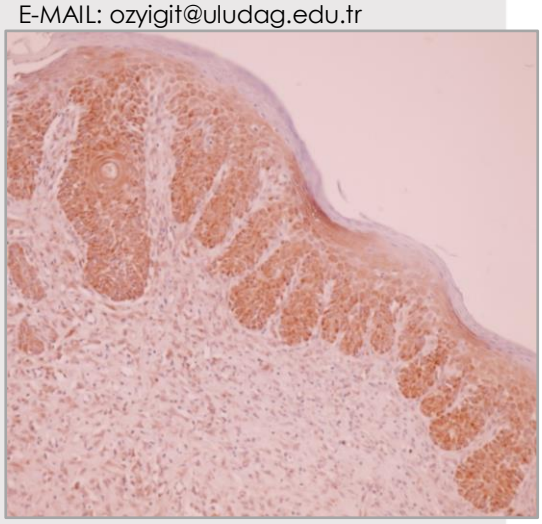
- ✓ E-Cadherin
- ✓ N-Cadherin
- ✓ Snail & Slug
- ✓ Vimentin
- ✓ MMP-9

CONTACT

E-MAIL: aysunsaricetin@gmail.com

THESIS SUPERVISOR

TELEPHONE: (+90 224) 294 13 03
E-MAIL: ozyigit@uludag.edu.tr



SUPERVISOR

Prof. Dr. M. Özgür ÖZYİĞİT
0000-0003-0682-8127
BURSA ULUDAG UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PATHOLOGY DEPARTMENT
BURSA – TURKIYE

THESIS ABSTRACT

The wound healing process is a current and important field in both human and veterinary medicine. Wound healing in living beings is a dynamic and multistage process induced by the Epithelial-Mesenchymal Transition (EMT). In this study, the relationship between EMT and wound healing of full-thickness excisional wounds created on the back of rats with the use of powdered tannic acid and zinc oxide powder pharmacological agents was examined. In the study, biopsy samples were taken on the 7th, 14th and 21st days and evaluated semi-quantitatively by histopathological and immunohistochemical (E-cadherin, N-cadherin, Snail&Slug, Vimentin, MMP-9) staining. As a result of the study, it was concluded that tannic acid and zinc oxide can be used in wound treatment by successfully completing the wound closure process and EMT process.

APPLICATION AREAS OF THE THESIS RESULTS

Studies have been conducted in molecular pathology, tannic acid and zinc oxide have contributed to the literature on the Type-2 EMT process in wound healing and the wound healing treatment process.

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